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FIGURE 1A

GCGGCCTCTTGTGTGAGGGCCTGTGGGATTCTCCGGATATGCGCCGAGTGTTTCCTTATCGAGGGCCGGGTAACC
CGGTGCCTGGCCCTCTAGC@CCGCTACCGGACTACATGTCGGAGGAGAAGCTGCAGGAGAAAGCTCGAAAAATGGC
AGCAATTGCAGGCCAAGCGCTATGCAGAAAAGCGGAAGTTTGGGTTTGTGGATGCCAGAAGGAAGACATGCCCC
CAGAACATGTGAGGGAGATCATTGAGACCATGGAGACATGACCAACAGGAAGTTCCGCCATGACAAAAGGGTTT
ACTTGGGTGCCCTAAAGTACATGCCCCACGCAGTCCTCAAACCTCCTGGAGAACATGCCTATGCCTTGGGAGCAGA
TTCGGGATGTGCCCCGTGCTGTACCACATCACTGGAGCCATTTCTTTCGTCAATGAGATTCCCTGGGTCAATTGAAC
CTGTCTACATCTCCAGTGGGGGTCAATGTGGATTATGATGCGCCGAGAAAAAAGAGATAGGAGGCATTTCAGA
GAATGCGTTTTTCCCCCTTTTGATGATGAGGAGCCGCCCTTGGACTATGCTGACAACATCCTAAATGTTGAGCCAC
TGGAGGCCATTGAGCTAGAGCTGGACCCCTGAGGAGGACGCCCTGTGTTGGACTGGTTCTATGACCACCAGCCGT
TGAGGGACAGCAGGAAGTATGTAAATGGCTCCACTTACCAGCGCTGGCAGTTCACACTACCTATGATGTCAACTC
TCTACCGCCTGGCTAATCAGCTCCTGACAGACTTGGTGGATGACAACTACTTCTACCTGTTTGATTGGAAGCCCT
TCTTTACGTCCAAGGCACTCAATATGGCCATTCTGGAGGCCCAAATTTGAACCTCTTGTTCGAGACATCAACC
TACAGGATGAAGACTGGAATGAATTCAATGATATTAACAAGATTATCATCCGGCAGCCTATCCGGACTGAGTACA
AGATTGCTTTTCTTACTTGTACAACAATCTTCCACACCATGTCCACCTCACCTGGTACCATACTCCCAATGTTG
TATTCATCAAACTGAAGATCCTGACTTGCCAGCTTTCTACTTTGACCCCTTGATCAACCCAATCTCCCATAGGC
ACTCAGTCAAGAGCCAGGAACCATTGCCGGATGATGATGAGGAATTTGAGCTCCCGGAGTTTGTGGAGCCCTTCC
TGAAGGACACACCCCTCTATACAGACAATACAGCCAATGGCATTGCCCTGCTCTGGGCCCGCGGCCCTTCAACC
TACGCTCTGGTTCGACCCGTCGGGCCCTGGACATACCCCTTGTCAAGAACTGGTATCGGGAGCATTTGCTCTGCCG
GGCAGCCTGTGAAAGTGAGGGTCTCCTACCAGAAGCTGCTTAAGTACTATGTGCTGAATGCCCTGAAGCATCGGC
CCCCTAAGGCTCAAAGAAGAGGTATTTGTTCCGCTCCTTCAAAGCCACCAAATTTCTTTCAGTCCACAAAGCTGG
ACTGGGTGGAGGGTGGCTCCAGTTTGGCGCCAGGGCTACAACATGCTCAACCTTCTCATTACCGCAAAAACC
TCAACTACCTGCACCTGGACTACAACCTCAACCTCAAGCCTGTGAAAACGCTCACCACCAAGGAAAGAAAGAAAT
CTCGTTTTGGGAATGCTTTCCACCTGTGTGCGGAAGTTCTGCGTTTGACTAAGCTGGTGGTGGATAGTCACGTGC
AGTATCGGCTGGGCAATGTGGATGCCTTCCAGCTGGCAGATGGATTGCAGTATATATTTGCCCATGTTGGGCAGT
TGACGGGCATGTATCGATACAAATACAAGCTGATGCGACAGATTGCGGTGTGCAAGGACCTGAAGCATCTCATCT
ATTATCGTTTTCAACACAGGCCCTGTAGGGAAGGGTCTTGGCTGTGGCTTCTGGGCTGCCGGTTGGCGAGTCTGGC
TCTTTTTCATGCGTGGCATTACCCCTTTATTAGAGCGATGGCTTGGCAACCTCCTGGCCCGGCAGTTTGAAGGTC
GACACTCAAAGGGGGTGGCAAAGACAGTAACAAAGCAGCGAGTGGAGTCAATTTTGACCTTGAGCTGCGGGCAG
CTGTGATGCATGATATTCTGGACATGATGCCTGAGGGGATCAAGCAGAACAAGGCCCGGACAATCCTGCAGCACC
TCAGTGAAGCCTGGCGCTGCTGGAAAGCCAACATTCCCTGGAAGGTCCCTGGGCTGCCGACGCCCATAGAGAATA
TGATCCTTTCGATACGTGAAGGCCAAGGCTGACTGGTGGACCAACACTGCCCCTACAACCGAGAACGGATCCGCC
GAGGGGCCACTGTGGACAAGACTGTTTGTAAAAAGAACTGGGGCCGCTCACC CGGCTCTATCTGAAGGCAGAAC
AGGAGCGGCAGCACAACTACCTGAAGGACGGGCCCTTACATCACAGCGGAGGAAACAGTGGCAGTATATACCACCA
CAGTGCATTGGTTGGAAAGCCGCAGGTTTTTACCCATCCCATTCCCCCACTCTCTATAAGCATGACACCAAGT
TGCTCATCTTGGCATTGGAGCGGCTCAAGGAAGCTTATAGTGTGAAGTCTCGGTTGAACAGTCTCAGAGGGAGG
AGCTAGGTCTGATCGAGCAGGCCTACGATAACCTCCACGAGGCGCTGTCCCGCATAAAGCGTCACTCCTCACAC
AGAGAGCCTTCAAAGAGGTGGGCATTGAGTTTATGGATCTGTATAGCCACCTCGTTCCAGTATATGATGTTGAGC
CCCTGGAGAAGATAACTGATGCTTACCTGGACCAGTACCTGTGGTATGAAGCCGACAAGCGCCGCTGTCCCAC
CCTGGATTAAGCCTGCAGACACAGAACCACCTCCACTGCTTGTTTACAAGTGGTGTCAAGGCATCAATAACCTGC
AGGACGTGTGGGAGACGAGTGAAGGCGAGTGAATGTGATGCTGGAATCCCGCTTTGAGAAGATGTATGAGAAGA
TCGACTTGACTCTGCTCAACAGGCTCGTGCGCCTCATCGTGGACCACAACATAGCCGACTACATGACAGCCAAGA
ACAACGTGCTCATCACTATAAGGACATGAACCATAAGAAATTCATATGGGATCATCAGAGGCCTGCAGTTTGCCT
CATTCATAGTGCAGTATTATGGCCTGGTGTGATTGCTTGTATTGGGATTGCACCGGGCCAGTGAGATGGCTG
GGCCCCCTCAGATGCCAAATGACTTTCTCAGTTTCCAGGACATAGCCACTGAGGCTGCCACCCCATCCGTCTCT
TCTGCAGATACATTGATCGCATCCATATTTTTTTCAGGTTACAGCAGATGAGGCTCGGGACCTGATTCAACGTT
ACCTGACAGAGCACCCCTGACCCCAATAATGAAAACATCGTTGGCTATAATAACAAGAAGTGTGGCCCCGAGATG
CCCGCATGCGCCTCATGAAACATGATGTTAACTTAGGCCGGGCGGTATTCTGGGACATCAAGAACCGCTTGCCAC
GGTCAGTGACTACAGTTCAGTGGGAGAACAGCTTCGTGTCTGTGTACAGTAAGGACAACCCCAACCTGCTGTTC

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FIGURE 1B

ACATGTGTGGCTTCGAGTGCCGCATCCTGCCTAAGTGCCGCACCAGCTATGAGGAGTTCACCCACAAGGACGGGG
TCTGGAACTGCAGAATGAGGTTACTAAGGAGCGCACAGCTCAGTGTTTCTGCGTGTGGACGATGAGTCAATGC
AGCGCTTCCACAACCGCGTGCCTCAGATTCTCATGGCCTCTGGGTCCACCACCTTCACCAAGATTGTGAATAAGT
GGAATACAGCTCTCATTGGCCTTATGACATACTTTCTGGGAGGCTGTGGTGAACACCCAAGAGCTCTTGGACTTAC
AAGTGTGAGAACAAAATCCAGACACGTATCAAGATTGGACTCAACTCCAAGATGCCAAGTCGGTTCCCCC
TGTCTACACCCCTAAGGAGTTGGGTGGACTCGGCATGCTCTCAATGGGCCATGTGCTCATCCCCAAT
CTCAGGTGGTCCAAACAGACAGATGTAGGTATCACACACTTTCGTTTCAGGAATGAGCCATGAAGAAGACC
CTCATTCCCAACTTGTACCGCTACATACAGCCATGGGAGAGCGAGTTCATTGATTCTCAGCGGGTCTGGGCTG
TGGCACTCAAGAGGCAAGAGGCCATTGCTCAGAACAGACGCCTGACTTTAGAAGACCTAGAAGATTTCATGGG
TGGCATTCTCGAATCAATACCCCTCTTCCAGAAGGACCGGCACACACTGGCTTATGATAAGGGCTGGCGTG
TACTGACTTTAAGCAGTATCAGGTTTTGAAGCAGAATCCGTTCTGGTGGACACACCAGCGGCATGATGGGA
CTGGAACCTGAACAACCTACCGTACAGACATGATCCAGGCCCTGGGCGGTGTGGAAGGCATTCTGGAACACA
CTTTAAGGGCACTTACTTCCCTACCTGGGAGGGGCTTTTCTGGGAGAAGGCCAGTGGCTTTGAGGAATCTA
AAGTGAAGAAGCTAACTAATGCTCAGCGATCAGGACTGAACCAGATTCCCAATCGTAGATTACCCCTCTGGT
GCTCCCCGACCATTAAATCGAGCCAATGTATATGTAGGCTTTCAGGTGCAGCTAGACCTGACGGGTATCTTCATGC
ACGGCAAGATCCCCACGCTGAAGATCTCTCTCATCCAGATCTTCCGAGCTCACTTGTGGCAGAAGATCCATGAGA
GCATTGTTATGGACTTATGTCAGGTGTTTGACCAGGAACCTTGATGCAGTGGAAATTGAGACAGTACAAAAGGAGA
CAATCCATCCCCGAAAGTCATATAAGATGAACCTTTCCTGTGCAGATATCCTGCTCTTTGCCTCCTATAAGTGGA
ATGTCTCCCGGCCCTCATTGCTGGCTGACTCCAAGGATGTGATGGACAGCACCACCACCCAGAAATACTGGATTG
ACATCCAGTTGCGCTGGGGGGACTATGATTCCCACGACATTGAGCGCTACGCCCCGGGCCAAGTTTCTGGACTACA
CCACCGACAACATGAGTATCTACCCTTCGCGCCACAGGTGTACTCATCGCCATTGACCTGGCCTATAACTTGCACA
GTGCCTATGGAACTGGTTCCAGGCAGCAAGCCTCTCATACAACAGGCCATGGCCAAGATCATGAAGGCAAACC
CTGCCCTGTATGTGTTACGTGAACGGATCCGCAAGGGGCTACAGCTCTATTCACTGAACCCACTGAGCCTTATT
TGCTTCTCAGAACTATGGTGAGCTCTTCTCCAACCAGATTATCTGGTTTGTGGATGACACCAACGTCTACAGAG
TGACTATTCAAGACCTTTGAAGGGAACCTTGACAACCAAGCCCATCAACGGAGCCATCTTCATCTTCAACCCAC
GCACAGGGCAGCTGTTCTCAAGATAATCCACACGTCCGTGTGGGCGGGACAGAAGCGTTTGGGGCAGTTGGCTA
AGTGAAGACAGCTGAGGAGGTGGCCGCCCTGATCCGATCTCTGCCTGTGGAGGAGCAGCCCAAGCAGATCATTG
TCACCAGGAAGGGCATGCTGGACCCACTGGAGGTGCACTTACTGGACTTCCCCAATATTGTCATCAAAGGATCGG
AGCTCCAACCTCCCTTTCCAGGCGTGTCTCAAGGTGGAAAAATTCGGGGATCTCATCCTTAAAGCCACTGAGCCCC
AGATGGTTCTCTTCAACCTCTATGACGACTGGCTCAAGACTATTTCACTTTACACGGCCTTCTCCCGTCTCATCC
TGATTCTGCGTGCCCTACATGTGAACAACGATCGGGCAAAAGTGATCCTGAAGCCAGACAAGACTACTATTACAG
AACCACACCACATCTGGCCCACTCTGACTGACGAAGAATGGATCAAGGTGAGGTGCAGCTCAAGGATCTGATCT
TGGCTGACTACGGCAAGAAAAACAATGTGAACGTGGCATCACTGACACAATCAGAAATTCGAGACATCATCTGG
GTATGGAGATCTCGGCACCGTACAGCAGCGGCAGCAGATCGCTGAGATCGAGAAGCAGACCAAGGAACAATCGC
AGCTGACGGCAACACAGACTCGCACTGTCAACAAGCATGGCGATGAGATCATCCTCCACCACCAGCAACTATG
AGACCCAGACTTTCTCATCCAAGACTGAGTGGAGGGTCAGGGCCATCTCTGCTGCCAACCTGCACCTAAGGACCA
ATCACATCTATGTTTCATCTGACGACATCAAGGAGACTGGCTACACCTACATCCTTCCCAAGAATGTGCTTAAGA
AGTTTATCTGCATATCTGACCTTCGGGCCCAAATTGCAGGATACCTATATGGGGTGAGCCACCAGATAACCCCC
AGGTGAAGGAGATCCGCTGCATTGTGATGGTGCCGAGTGGGGCACTCACCAGACCGTGCACCTGCCTGGCCAGC
TGCCCCAGCATGAGTACCTCAAGGAGATGGAACCCCTTAGGTTGGATCCACACTCAGCCCAATGAGTCCCCGCAGT
TATCACCCCAGGATGTACACCCCATGCCAAGATCATGGCTGACAACCCATCTTGGGATGGCGAGAAGACCATT
TCATCACATGCAGCTTACGCCAGGCTCCTGTACTGACGGCCTACAAGCTGACCCCCAGTGGCTACGAATGGG
GCCGCCAGAACACAGACAAGGGCAACAACCCCAAGGGCTACCTGCCTTACACTATGAGAGGGTGCAGATGCTGC
TGTCGGACCGTTTCTTGGCTTCTTCATGGTCCCTGCCAGTCCCTGGAAGTACAACCTTCATGGGTGTTTCGGC
ATGACCCCAACATGAAATATGAGCTACAGCTGGCGAACCCCAAGAGTTCTACCACGAGGTGCACAGGCCCTCTC
ACTTCTCAACTTTGCTCTCTCTGCAGGAGGGGGAGGTTTACTCTGCGGATCGGGAGGACCTGTATGCTGACCGT
TTCCCTGCCTCCTGCTTCAGCCTCCCGAGGCCGAAGCCTCAGCCCTCCAGACAGGCCGCTGACATTACGAGTT
TGGCCTCTTTCCCTCTGTCTGTGCTTGTGTTGTGACCTCCTGATGGCTTGTTCATCCTGAATAAAATATAATAAT

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FIGURE 1C

AAATTTTGTATAAATAGG

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FIGURE 2

MAGVFPPYRGPGNPVPGPLAPLPDYMSEEKLQEKARKWQQLQAKRYAEKRKFGFVDAQKEDMPPEHVREIIRDHGD
MTNRKFRHDKRVYLGALKYMPHAVLKLLNMPMPWEQIRDVPVLYHITGAISFVNEIPWVIEPVYISQWGSWMIM
MRREKRDRRHFKRMRFPPFDDEEPPLDYADNINLNEPLEIAIQLELDPEEDAPVLDWFYDHOPLRDSRKYVNGSTY
QRWQFTLPMSTLYRLANQLLTDLVDDNYFYLFDLKAFFTSKALNMAIPGGPKFEPLVRDINLQDEDWNEFNDIN
KIIIRQPIRTEYKIAFPYLYNNLPHHVHLTWYHTPNVVFIKTEDPDLPAFYFDPLINPISHRHSVKSQEP LPDDD
EEFELPEFVEPFLKDTPLYTDNTANGIALWAPRPFNLRSGRTRRALDIPLVKNWYREHCPAGQPVKVRVSYQKL
LKYYVLNALKHRPPKAQKKRYLFRSFKATKFFQSTKLDWVEGWLQVCRQGYNMLNLLIHRKNLNYLHLDYNFNK
PVKTLTTKERKKSFRGNAFHLCREVLRLTKLVVD SHVQYRLGNVDAFQLADGLQYIFAHVGQLTGMRYKYKLMR
QIRVCKDLKHLIYYRFNTGPVGKPGCGFWAAGWRVWLFMRGITPLLERWLGNNLLARQFEGRHSGVAKTVTKQ
RVESHFDLELRAAVMHDILDMPEGIKQNKARTILQHLSEAWRCWKANIPWKVPGLPPTIENMILRYVKAKADWW
TNTAHYNRERIRRGATVDKTVCKKNLGRLTRLYLKAQEQRQHNYLKDGPYITAEETVAVYTTTVHWLESRRFSP
FPFPLSYKHDTKLLILALERLKEAYSVKSRNLNQSOREELGLIEQAYDNLHEALSRIKRHLTQRAFKEVGIEFMD
LYSHLVVYDVEPLEKITDAYLDQYLWYEADKRRLFPWPWKPADTEPPPLLVKWCQGINNLQDVWETSEGEENV
MLESRFEKMYEKIDLTLLNRLVRLIVDHNIADYMTAKNNVVINYKDMNHTNSYGIIRGLQFASFIVQYYGLVMDL
LVLGLHRASEMAGPPQMPNDFLSFQDIATEAAHPIRLFCRYIDRIHIFFRFTADEARDLIQRYLTEHPDPNNENI
VGYNKKKCWPRDARMRLMKHDVNLGRAVFWDIKNRLPRSVTTTVQWENSFVSVYSKDNPNLLENMCGFECRILPKC
RTSYEEFTHKDGWVNLQNEVTKERTAQCFLRVDDDESMQRFHNRVRQILMASGSTTFTKIVNKWNTALIGLMTYFR
EAVVNTQELLDLLVKCENKIQTRIKIGLNSKMPSRFPVVFYTPKELGGLGMLSMGHVLIPOSDLRWSKQTDVGI
THFRSGMSHEEDQLIPNLYRYIQPWESEFIDSQRVWAEYALKRQEAIAQNRRLTLEDLEDSDWRGIPRINTLFQK
DRHTLAYDKGWRVRTDFKQYQVLKQNPFWWTHQRHDGKLWNLNNYRTDMIQALGGVEGILEHTLFKGTYFPTWEG
LFWEKASGFEE SMKWKKL TNAQRSGLNQIPNRRFTLWWSPTINRANVYVGFQVQDLTGIFMHGKIPTLKISLIQ
IFRAHLWQKIHESI VMDLCQVFDQELDALEIETVQKETIHPKRSYKMNSSCADILLFASYKWNVSRPSLLADSKD
VMDSTTTQKYWIDIQLRWGDYDSHDIERYARAKFLDYTTDNMSIYPSPTGVLIAIDLAYNLHSAYGNWFP GSKPL
IQQAMAKIMKANPALYVLRERIRKGLQLYSSEPT EPYLSSQNYGELFSNQI IWFVDDTNVYRVTIHKTFEGNLT
KPIINGAIFIFNPRTGQLFLKIHTSVWAGQKRLGQLAKWKTAEEVAALIRSLPVEEQPKQIIVTRKGMLDPLEVH
LLDFPNIVIKGSELQLPFQACLKVEKFGDLILKATEPQMVLFNLYDDWLKTISSYAFSRLILILRALHVNNDR
KVILKPKDTTITEPHHIWPTLTDEEWIKVEVQLKDLILADYGKKNVNVVA

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FIGURE 3

GAATTTCGGCACGAGATAAAAAATGGCTTCCAAAAGAGCTCTGGTCATCCTGGCTAAAGGAGCAGAGGAAATGGAGA
CGGTCATCCCTGTAGATGTCATGAGGCGAGCTGGGATTAAGGTCACCGTTGCAGGCCTGGCTGGAAAAGACCCAG
TACAGTGTAGCCGTGATGTGGTCATTTGTCCTGATGCCAGCCTTGAAGATGCAAAAAAGAGGGACCATATGATG
TGGTGGTTCTACCAGGAGGTAATCTGGGCGCACAGAATTTATCTGAGTCTGCTGCTGTGAAGGAGATACTGAAGG
AGCAGGAAAACCGGAAGGGCCTGATAGCCGCCATCTGTGCAGGTCCTACTGCTCTGTTGGCTCATGAAATAGGTT
GTGGAAGTAAAGTTACAACACACCCTCTTGCTAAAGACAAAATGATGAATGGAGGTCATTACACCTACTCTGAGA
ATCGTGTGGAAAAGACGGCCTGATTCTTACAAGCCGGGGCCTGGGACCAGCTTCGAGTTTGCCTTGCAATTG
TTGAAGCCCTGAATGGCAAGGAGGTGGCGGCTCAAGTGAAGGCTCCACTTGTTCTTAAAGACTAGAGCAGCGAAC
TGCGACGATCACTTAGAGAAACAGGCCGTTAGGAATCCATTCTCACTGTGTTGCTCTAAACAAAACAGTGGTAG
GTTAATGTGTTTCAAGATCGCTGTCCTTACTACTTTTGCGGAAGTATGGAAGTCACAACACAGAGATTTCTC
AGCCTACAAATTGTGTCTATACATTTCTAAGCCTTGTTTGCAGAATAAACAGGGCATTTAGCAAACATAAAAAA
AAAAAAAAAACTCGAG

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FIGURE 4

MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSRDVVICPDASLED
AKKEGPYDVVVLPGG
NLGAQNLSESAAVKEILKEQENRKGLIAAICAGPTALLAHEIGCGSKVTTHPLAKDKMMNGG
HYTYSENVEKDG
LILTSRGPGTSFEFALAIVEALNGKEVAAQVKAPLVVKD

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FIGURE 5

TTTTGTGAAGAGACGAAGACTGAGCGTTGTGGCCGCGTTGCCGACCTCCAGCAGCAGTCGGCATTCTCTAACGC
AGAAACCCGGGAGTAGGAGACTCAGAATCGAATCTCTTCTCCCTCCCTTCTTGTGAGATTTTTTTGATCTTCAG
CTACATTTTCGGCTTTGTGAGAAACCTTACCATCAAACACGATGGCCAGCAACGTTACCAACAAGACAGATCCTC
GCTCCATGAACCTCCCGTGTATTCAATTGGGAATCTCAACACTCTTGTGGTCAAGAAATCTGATGTGGAGGCAATCT
TTTCGAAGTATGGCAAAATTGTGGGCTGCTCTGTTTCATAAGGGCTTTGCCTTCGTTTCAGTATGTTAATGAGAGAA
ATGCCCCGGGCTGCTGTAGCAGGAGAGGATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAG
AGCCAAAAGTGAACCGAGGAAAAGCAGGTGTGAAACGATCTGCAGCGGAGATGTACGGGTCAGTAACAGAACACC
CTTCTCCGTCCCCTCTACTCAGCTCCTCTTTTGACTTGGACTATGACTTTCAACGGGACTATTATGATAGGATGT
ACAGTTACCCAGCACGTGTACCTCCTCCTCCTATTGCTCGGGCTGTAGTGCCCTCGAAACGTCAGCGTGTAT
CAGGAAACACTTCACGAAGGGGCAAAAGTGGCTTCAATTCTAAGAGTGGACAGCGGGGATCTTCCAAGTCTGGAA
AGTTGAAAGGAGATGACCTTCAGGCCATTAAGAAGGAGCTGACCCAGATAAAACAAAAAGTGGATTCTCTCCTGG
AAAACCTGGAAAAAATGGAAAAGGAACAGAGCAAACAAGCAGTAGAGATGAAGAATGATAAGTCAGAAGAGGAGC
AGAGCAGCAGCTCCGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGGGGGTGCAGATGACTCTGCTG
AGGAGGGGGACCTACTGGATGATGATGATAATGAAGATCGGGGGGATGACCAGCTGGAGTTGATCAAGGATGATG
AAAAAGAGGCTGAGGAAGGAGAGGATGACAGAGACAGCGCCAATGGAGGATGACTCTTAAGCACATAGTGGGGTT
TAGAAATCTTATCCCATTAATTTCTTTACCTAGGCGCTTGTCTAAGATCAAATTTTTACCAGATCCTCTCCCTA
GTATCTTCAGCACATGCTCACTGTTCTCCCCATCCTTGTCCTTCCCATGTTTCAATTAATTCATATTGCCCCGCGCC
TAGTCCCATTTTCACTTCCTTTGACGCTCCTAGTAGTTTTGTAAAGTCTTACCCTGTAATTTTGTCTTTAATTT
TGATACCTCTTTATGACTTAACAATAAAAAGGATGTATGGTTTTTATCAACTGTCTCCAAAATAATCTCTTGTTA
TGCAGGGAGTACAGTTCTTTTCATTACATACATAAGTTTCAGTAGTTGCTTCCCTAACTGCAAAGGCAATCTCATT
AGTTGAGTAGCTCTTGAAAGCAGCTTTGAGTTAGAAGTATGTGTGTTACACCTCACATTAGTGTGCTGTGTGGG
GCAGTTCAACACAAATGTAACAATTATTTTTGTGAATGAGAGTTGGCATGTCAAATGCATCCTCTAGAAAAATAA
TTAGTGTTATAGTCTTAAGATTTGTTTTCTAAAGTTGATACTGTGGGATTTTTGTGAACAGCCTGATGTTTGGGA
CCTTTTTCTCCTCAAATAAACAAGTCCTTATTAACCAGGAATTTGGAG

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FIGURE 6

MASNVTNKTDPRSMNSRVFIGNLNTLVVKKSDVEAIFSKYGKIVGCSVHKGFVQYVNERNARA AVAGEDGRMI
A 5QVLDINLAAEPKVN RGKAGVKRSAAEMYGSVTEHPSPSPLLSSSFDLDYDFQRDYYDRMYSYPARVPPPPPIA
RAVVPSKRQRVSGNTSRRGKSGFNSKSGQRGSSKSGKLGDDLQA IKKELTQIKQKVD SLENLEKMEKEQSKQA
VEMKNDKSEEEQSSSSVKKDETINVKMESEGGADDSAEEDLLDDDDNEDRGDDQLELIK DDEKEAEEGEDDRDSA

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FIGURE 7

CCGACATGTTGAGTCATAAGACGCGTCGGTGTTCAGTCTGTGTCTTGGAGGTGACCAGGGCCACTGCAGGCAT
GGTGCTAGCAGAGCTGTACGTCTCTGACCGAGAGGGAAGCGATGCCACGGGAGATGGAACCAAGGAGAAACCATT
TAAACACAGGTCTAAAGGCTTTGATGACAGTAGGGAAAGAACCATTTCCTACCATTTACGTAGATTCACAAAAAGA
AAATGAGAGGTGGAATGTTATTTCTAAATCACAGTTGAAGAACATTAAAAAGATGTGGCATAGGGAACAAATGAA
GAGTGAATCCCGGGAAAAGAAAGAGGCAGAAGATAGTTTACGAAGAGAAAAGAACCTGGAAGAAGCAAAGAAGAT
TACCATTAAAAATGATCCAAGTCTCCAGAGCCAAAATGTGTGAAGATTGGTGCCTTAGAAGGATATAGAGGCCA
AAGAGTAAAGGTGTTTGGCTGGGTCCACAGGCTGCGCAGGCAAGGAAAGAATTTAATGTTTCTGGTGTTCGAGAG
TGGTACAGGTTATCTTCAGTGTGTCTTGGCGGATGAGTTGTGTGTCAGTGTGCTACAATGGAGTTCTCTTGTCACGGA
GAGCAGTGTTCAGTGTATGGAATGCTAAATCTTACCCCAAAGGGCAAGCAGGCTCCAGGTGGCCATGAGCTGAG
TTGTGACTTCTGGGAACATAATTGGGTTGGCCCCCTGCTGGAGGAGCTGACAACCTGATCAATGAGGAGTCTGACGT
TGATGTCCAGCTCAACAACAGACACATGATGATCCGAGGAGAAAACATGTCCAAAATCCTAAAAGCACGATCCAT
GGTCACCAGGTGCTTTAGAGATCACTTCTTTGATAGGGGGTACTATGAAGTTACTCCTCCAACATTAGTGCAAAC
ACAAGTAGAAGGTGGTGCCACACTCTTCAAGCTTGACTATTTTGGGGAAGAGGCATTTTGGACTCAATCCTCTCA
GTTGTACTTGGAGACCTGCCTCCCAGCCCTGGGAGATGTTTTTGTATTGCTCAGTCATACCGGGCAGAGCAGTC
CAGAACACGAAGGCACCTGGCTGAGTACACTCACGTGGAAGCTGAGTGTCTTTTCTGACTTTTGACGACCTCCT
GAACCGGTTGGAGGACTTGGTTTGTGATGTGGTAGATCGAATATTGAAGTCACCTGCAGGGAGCATAGTGATGA
GCTCAACCCGAACCTTCAGCCCCCAACGGCCCTTCAAACGGATGAACATTTCAGATGCTATCGTTTGGCTAAA
AGAACATGATGTAAAGAAAGAAGATGGAACCTTCTATGAATTTGGAGAAGATATCCCAGAAGCTCCTGAGAGACT
GATGACAGACACCATTAATGAACCAATCTTGCTGTGTCGATTTCTGTGGAGATCAAGTCCTTCTACATGCAGCG
ATGTCTGAGGATTCCCGTCTTACTGAATCTGTGACGTGTTGATGCCCAATGTTGGTGAGATTGTGGGAGGCTC
AATGCGTATCTTTGATAGTGAAGAAATACTGGCAGGTTATAAAAGGGAAGGGATTGACCCCACTCCCTATTACTG
GTATACGGATCAGAGAAAATACGGTACATGTCCCATGGAGGATATGGCTTGGGCTTGGAAACGATTCTTAACGTG
GATTCTGAATAGGTATCACATCCGAGACGTGTGCTTATACCCTCGATTTGTCCAGCGTTGCACGCCATTAACCAT
TTCTCCAGAAGCGTGGAGGAAAGATTATGAAAGGAACAGGCTCTTTAAAAAAGAAAACAAAAGCCAGAATCTTC
CTTTTTTTTGTTCATTGGGGTTTCTCTTTCTGTTTTTCTTTCTACTACCATAAAAACATCTCAAATCACCTGA
ACATCAAGTGATATTAAGGTTGTCATCTTAAGAAAAAATATCCATTTTTTTCTTAAGTTCCGGAAACAAAGTTCCG
GGGAAAATACCTGGCATGAAACTGTAGTTAGGGATACATTTACGATTTTACTCACTTTATCCAAGTTATTTCATT
TTATTCAAGTTATATGTATGTATAATTCAACAATTTTAGATTATGGTGTAGATACTCCAGTAACCTTATCTTTCT
GTCCTTTTAAGTGTACCTGGAATTCTTTGATTTATTTTATTGCATCAATGAATTAACAAAAATCTTGGGGGAA
GAAATTGGCAATATCGTATAAAAAATCTGCTCATATTAGAACACAGTATAATTACAGCAGTAAACACTAGAAATCAA
TGAATAGCCTTTTGTATCAGTTATTAATCTTTTCTAACTCTGCTTAGCTGCTAATAATCCTGAGGCATAGAAAT
GAAGAATTTGTAAAAATAGAATTGCCTTAAAGGATTTGAAGTAAGAACATAATTTTGGGGAGAGTTTTTATGTA
TTCACAGTATCCCTCTTAGCATTAAATTTAAGGTAAAGAGGCAGATTGATTTTCCCTCTTTCTGGTAATTCCTAA
GTAATTAAGAATAAATAAGTTCCAAAAGAAATTGTAGCTGGAATCTTAATAACAATTGTGAGTGGCTGTTGAGT
TGCCCCCACCATGTCCTTAGATCTAATCTGTGCTACCTTATTAACCTCACAGCAGGCTTACTGAATGGCTTCATT
CAGATTTAGTTGATTTCTCCACCAAATGCATGTCATGTATTCTCAATAGGCTGTATTCCCAGCAGTCAATAAATG
AACACCCGTAAAAA

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FIGURE 8

MVLAELYVSDREGSDATGDGTKEKPFKTGLKALMTVGKEPFPTIYVDSQKENERWNVISKSQKNIKKMWHREQM
KSESREKKEAEDSLRREKNLEEAKKITIKNDPSLPEPKCVKIGALEGYRGQRVKVFGWVHRLRRQGKNLMFLVLR
DGTGYLQCVLADELQCYNGVLLSTESSVAVYGMLNLTPKGKQAPGGHELSCDFWELIGLAPAGGADNLINEESD
VDVQLNNRHMMIRGENMSKILKARSMVTRCFRDHFFDRGYEYVTPPTLVQTQVEGGATLFLDYFGEEAFLTQSS
QLYLETCLPALGDVFCIAQSYRAEQSRTRRHAEYTHVEAECPFLLTFDDLNRLEDLVCDVVDRILKSPAGSIVH
ELNPNFQPPKRPFKRMNYSDAIVWLKEHDVKKEDGTFYEFGEDIPEAPERLMTDTINEPILLCRFPVEIKSFYMQ
RCPEDSRLTESVDVLMPNVGEIVGGS MRIFDSEEILAGYKREGIDPTPYWYTDQRKYGTCPHGGYGLGLERFLT
WILNRYHIRDVCLYPRFVQRCTP

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FIGURE 9

GGCAGTCGCGGAAGGCGGGAGCTTGCGTGCTGCTGGGCGCTGAGCTGTCTGTCTCGTTTCTGTCCGCGGCCCT
GCATCCCGGCCCCGGGCGCCCGCTGGAGGTCGCCGAGGAGCCACAGGGCTGACTGGTCTGTGCCCCGGGCCAGG
AGTGCCTGGTGTAGCAGTCGCGGAGCCATCCCGGCGTCTGCTGCCATGACCGACTCTCCCTCAGAGGAGACTCT
TCCTCAGCGGTGGCTGCAGAGACAGATGAGCGGCGGCTCCTGGCCGCGGGACCGTGAGACGGGTTCGTGGCCGGC
CATTAGGGGGACGCTGCGACCACCGCCTGCGCCCCCTCCGGACTGGTTTCCTTGGGCCCCGGAAGCTCGCGGCGGG
CCCTGCGGGAGGCGGCATGCTCCCGCGGAGGCTGCTGGCCGCTGGCTGGCGGGGACGCGGGGCGGGGGCCTGCT
GGCGCTTCTGGCCAATCAGTGCCGCTTCGTACGGGCGCTGCGCGTGGCGCGCGCAGCAGATCGCGCAGCTCTA
CGGCCGCTCTACTCCGAGAGCTCAGCGCGCTTCTCCTCGGCCGCTCTGGCGCCGGCTGCACGGCCGCTCCTGG
CCATGCCTCTGCCTTGATGGCGGCGTTAGCGGCGCTTTCGTTTGGGACGAGGAGAGGATCCAGGAGGAGGAGTT
GCAGAGATCTATTAATGAGATGAAGCGGTTGGAAGAAATGTCAAATATGTTTCAGAGCTCTGGAGTCCAGCACCA
CCCTCCAGAACCAAAAGCCCAAACAGAAGGGAATGAAGATTCAGAGGGCAAAGAGCAACGTGGGAAATGGTGTAT
GGATAAGAAACACTTTAAGCTGTGGCGGCGCCCAATTACAGGCACCCACCTTTACCAGTACCGAGTTTTTGGAAAC
CTACACAGATGTGACACCTCGGCAGTTCTTCAATGTTTCAGCTGGACACAGAGTATAGAAAAAATGGGATGCCCC
GGTAATCAAGCTGGAGGTGATTGAGAGGGATGTGGTTAGTGGTTCCGAGGTTCTTCACTGGGTAACCCATTTTCC
TTATCCAATGTACTCACGGGATTATGTTTATGTTTCGGCGGTATAGTGTGGATCAGGAAAAACAACATGATGGTGT
GGTGTGCGGTGCTGTGGAGCATCCGAGTGTGCCAGAGTCTCCAGAATTCGTGAGGTCAGATCATATGAATCCCA
AATGGTTATCCGTCCCCACAAGTCATTTGATGAGAATGGCTTTGACTACTTACTAACATACAGTGACAATCCCCA
AACGGTGTTCCTCGCTACTGTGTTAGTTGGATGGTTTCAGTGGCATGCCAGATTTCTTGGAGAAGCTGCACAT
GGCCACTCTGAAAGCCAAGAATATGGAGATTAAAGTAAAGGACTACATCTCAGCTAAGCCTCTGGAAATGAGTAG
TGAAGCCAAGGCCACCAGCCAGTCTCTGAGCGAAAGAACGAGGGCAGCTGTGGCCCTGCTCGGATTGAGTATGC
TTGACAGGCTTTGGGATAAGAAGGGACAAGGTGCTTCTAGCCCTGTCTCAGTCCGTTATCACTCTGCTGTAGAAG
GGGGACATGCCACATGTATTAGAAGGCATCTGCTGTAACTTCCAGTGCAAGATAATTCAATAACTGATGTCCCAT
TTCATTACAGAGCCCTTATTGCTCTTATCAAAACAGAAGAAGGCTACATTTGTGGGAGTGTGTATATTCTCAGG
CCAAGTGTTCCTGAAATTCGGTATCTCACTGAGCTAATCTGGAACAAACCTCTCACCTCAGGCCAGAAGGGGATGA
CCTCCATTTGCTTCTCTGAGTAGTTTCCTCTGCTGACATTCCAAATCCCACCATCGATTGTGCAGCGCTTTGGAT
TTCCTTCACTTCTCCAGGTCCACCTGGAAAGTATAGTTGGCCAGTTGAGTCTCTCAAATGAGGGGCTACTGGGAG
TGCTCTTGGTAACAATCATGATGTGAATGGGTGTGAACGATACTTGGCTATGTTAAGTGCCTTGTCCGCACCTTG
CTTTTATCTCTAGAGACATGAAGTTATTATTAATTTTTTTTTTTTTTAAAGTAGAGATGGAGTTTCACTCTGTTTC
CCAGGCTGGTCTTGAAGTCTTGGGCCATGCCGCGCCAGGGACATGAATTTGTACAAAGAAATTTCCCTCCCTGCC
TGCACAATATACCCATTGACTCACCTTATCCAAAGCAAGTTTCCTGTGAATCGGCCAGTTCTTCTATATTCAAT
GGATCATTGCCTCCTTCCCTAACCTTCCCCATTTACCAAGAAGCAACTGGGAGACTAATCCTTTTAGATAGTAGCTTT
TTGATGCTCAAAACATCACATTTAAATTTAGTTTAAAAATTTTTTAACTTTTGTGTCAAATAGGAGTTGAGGAAT
TGAGCAGGATTCTACCTAGTCCGATTGTATAGAAAACACCATTTTGATTGAGGTATTATTTTTCATATTTTCAGG
TTTGACTTGTTCTTTTCAAGAGGCTAAAGTCAGAGGAATGGGGGCTGGGCCACTCCCTTGGAGCTCTCAGATCTA
CAGACAAGCTGTGTGAATGCATAGATGTAATCTTGTCTCAAATACTAATACAGTGGAGATTGGGTTTATGTTACC
ATTAAGTTCCCTCTAAAAAGTTTTTCTTCCCTCTCTCAGAGCCAAAATAAAAGTGAAGTACACTGTTTCAGATAAGG
TCACAATCTGATGCTGTCAGTTTGACCGAGCTGGTTTTGCTTATGGTCATGCTGCAATTTGTTAGAATAATAGGG
ATCAAGTTTTTAAATCCTCCTCCTTCCCTTTTTTCTGGAGTCTTGAGGGCCAGAGTTTTGTGTTTTGTTTTGTTT
TTGTTTTCTGCTTGCTACTGTTTTGTGGTGTGAAAAGTGGTTTAAACCTGAGACTAACTTAAACACTTCCTTG
ACCTTCTTGTGCTGCTGTTTCAATTTTTGTGCCAAGGAAGTAGCTGCCCCAGTGTATGTCTGCTTCTCCGCGTCAT
TGTTGGAAGAGGAGAGATGCATCGAGCAGTCCAGCTGCTTTTCAATTTATTACTTCTTCTTCCAGGACCTGACA
GAAGTCAGGGAAAGAGTCCCTGGGTTATGTCCAACTTAGCACCTGCAATTGTTGGGATGTGGATGGATGTGTGCA
TAAGAGAGAGAGAGAATATGTGTGTGTGTGTGCGTCTGCGAGCGCACACACATGCACAAGTGCGAAGGAGTTG
CGGTTGCTCCATGTTCTGACTTAGGGCAATTTGATTCTGCACTTGGGGTCTGTCTGTACAGTTACTCATGTCAAT
GTAATGATTTCACTCCTAACTGTGACATTTTTATCAAATGTGTGAATAAATACATAAAGATTGGTACAAAAAAA
AAAAAAA

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FIGURE 10

MAALAGVFVWDEERIQEEELQRSINEMKRLEEMSNMFQSSGVQHHPPEPKAQTEGNEDSEGKEQRWEMVMDKKHF
KLWRRPITGTHLYQYRVFGTYTDVTPRQFFNVQLDTEYRKKWDALVIKLEVIERDVVSGSEVLHWVTHFPYPMYS
RDYVYVRRYSVDQENMMVLVSRAVEHPSVPESPEFVRVRSYESQMVIKPHKSFDENGFDYLLTYSDNPQTVFPR
YCVSWMVSSGMPDFLEKLHMATLKAKNMEIKVKDYISAKPLEMSSEAKATSQSSERKNEGSCGPRIEYA

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FIGURE 11

GCAACCTTTCCAAGGGAGTGGTTGTGTGATCGCCATCTTAGGGAAAAGATGTTCTCGTCCGTGGCGCACCTGGCG
CGGGCGAACCCCTTCAACACGCCACATCTGCAGCTGGTGCACGATGGTCTCGGGGACCTCCGCAGCAGCTCCCCA
GGGCCACGGGCCAGCCCCGCCGCCCTCGCAACCTGGCAGCCGCCGCCGTGGAAGAGCAGTATAGCTGTGACTAT
GGATCTGGCAGATTCTTTATCCTTTGTGGACTTGGAGGAATTATTAGCTGTGGCACAACACATACAGCATTGGTT
CCTCTAGATCTGGTTAAATGCAGAATGCAGGTGGACCCCCAAAAGTACAAGGGCATATTTAACGGATTCTCAGTT
ACACTTAAAGAGGATGGTGTTCGTGGTTTGGCTAAAGGATGGGCTCCGACTTTCCTTGGCTACTCCATGCAGGGA
CTCTGCAAGTTTGGCTTTTATGAAGTCTTTAAAGTCTTGTATAGCAATATGCTTGGAGAGGAGAATACTTATCTC
TGGCGCACATCACTATATTTGGCTGCCTCTGCCAGTGCTGAATTCTTTGCTGACATTGCCCTGGCTCCTATGGAA
GCTGCTAAGGTTTGAATTCAAACCCAGCCAGGTATGCCAACACTTTGAGGGATGCAGCTCCCCAAATGTATAAG
GAAGAAGGCCTAAAAGCATTCTACAAGGGGGTTGCTCCTCTCTGGATGAGACAGATAACCATAACCATGATGAAG
TTCGCCTGCTTTGAACGTACTGTTGAAGCACTGTACAAGTTTGTGGTTCCTAAGCCCCGCAGTGAATGTTCAAAG
CCAGAGCAGCTGGTTGTAACATTTGTAGCAGGTACATAGCTGGAGTCTTTTGTGCAATTGTTTCTCACCCTGCT
GATTCTGTGGTATCTGTGTTGAATAAAAGAAAAGGTAGCAGTGCTTCTCTGGTCCTCAAGAGACTTGGATTAAA
GGTGTATGGAAGGGACTGTTTGGCCGTATCATCATGATTGGTACCCTGACTGCACTACAGTGGTTTATCTATGAC
TCCGTGAAGGTCTACTTCAGACTTCCTCGCCCTCCCCACCTGAGATGCCAGAGTCTCTGAAGAAAAGCTTGGG
TTAACTCAGTAGTTAGATCAAAGCAAATGTGGACTGAATCTGCTTGTGATCAGTGTTTGAAGAAAGTGCAAAG
GAACTTTTATATATTTGACAGTGTAGGAAATTGTCTATTCTGATATAATTACTGTAGTACTCTTGCTTAAGGCA
AGAGTTTCAGATTTACTGTTGAAATAAACCCAACTGTTTCATGAAAAA

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FIGURE 12

MISSVAHLARANPFNTPHLQLVHDGLGDLRSSSPGPTGQPRRPRNLAAAVEEQYSCDYGSGRFFILCGLGGIIS
CGTTHTALVPLDLVKCRMQVDPQKYKGIFNGFSVTLKEDGVRGLAKGWAPTFLGYSMQGLCKFGFYEVFKVLYSN
MLGEENTYLWRTSLYLAASASAEFFADIALAPMEAACKVRIQTQPGYANTLRDAAPKMYKEEGLKAFYKGVAPLWM
PQIPYTMKMFACFERTVEALYKFVVPKPRSECSKPEQLVVTFFVAGYIAGVFCAIVSHPADSVVSVLNKEKGSSAS
*PLGFKGVWKGLFARIIMIGTLTALQWFIYDSVKVYFRLPRPPPEMPESLKKKLGLTQ

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FIGURE 13

CTGGAAGCGGGCGAGTCTCGTGCTGTGTGTCGGACCTGCAGCCCTGGCCTTCCGCCACCATGGAGTACCTCATCGG
TATCCAAGGCCCCGACTATGTTCTTGTCGCCTCCGACCGGGTGGCCGCCAGCAATATTGTCCAGATGAAGGACGA
TCATGACAAGATGTTTAAGATGAGTGAAAAGATATTACTCCTGTGTGTTGGAGAGGCTGGAGACACTGTACAGTT
TGCAGAAATATATTCAGAAAAACGTGCAACTTTATAAGATGCGAAATGGATATGAATTGTCTCCACGGCAGCAGC
TAACTTCACACGCCGAAACCTGGCTGACTGTCTTCGGAGTCGGACCCCATATCATGTGAACCTCCTCCTGGCTGG
CTATGATGAGCATGAAGGGCCAGCGCTGTATTACATGGACTACCTGGCAGCCTTGGCCAAGGCCCTTTTGCAGC
CCACGGCTATGGTGCCTTCCTGACTCTCAGTATCCTCGACCGATACTACACACCGACTATCTCACGTGAGAGGGC
AGTGGAACCTCCTTAGGAAATGTCTGGAGGAGCTCCAGAAACGCTTCATCCTGAATCTGCCAACCTTCAGTGTTCG
AATCATTGACAAAAATGGCATCCATGACCTGGATAACATTTCTTCCCAAACAGGGCTCCTAACATCATGTCCT
CCCTCCCACTTGCCAGGGAACTTTTTTTTTGATGGGCTCCTTTATTTTTTCTACTCTTTTCAGGCGCACTCTTGA
TAAATGGTTAATTGAGAAATAAGGTGACTATGGATATAATTGAGCCCTCTGGTCCAGGTCTCAGTTTACCTAATA
TTACCTCAGAAAGGATATGGAGGGAAGATGATCTTTTGCCAGGTCTGACTTTTCTTCCTGCTCCGCCCTCCATT
AACGCTCAGTACCCTTTAGCAGCTGACGGCCCCACGTTCTACTCCATGCTTGGCTTCCTTTCCAACCTAGCTCTTT
CATATATTTTACTTGCTAGTATCTCCATTCTCTCTAAAGTAGTGGTTCTTTTGCCCTTAAACTTAAATTTTTAA
ATTAATTAACCTGAATTAATAATACATGCACTTAATGTAACATGCAAACAGTACAAAAACATGTAGTGAAAAATA
TTTCTTCCAGAGCTGGGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCAGC
AGGTCAAGAGAGCGAGACCATCCTGACCAACATGGTGAAACCCCGTCTCTGCTAAAAATACAAAAATTAGCTGGG
CGTGGTGGCACGCACCCCTAGTCCCAGCTACTGGGGAGGCTGAGACGGGAGAATCGGTGCAACCCGGGAGGCGGA
GGTTGCAGTGAGCCTAGATCGCGCCACTGTACTCCAGCCTGGCAACAGAGTGAGACTCCGTCTCAAAAAAAGAA
GGAAAAATGTTTCTTCCATCCCTATAATCCAGTCATCTGCTTCCCTTCCCTTGGAGGAACTTCAGCTAC
TAATTTCTTATGTTTTTTAAGAGATATTCTGTTACTGTGTAAAGTATACATACATACAGACACATGCCCCCTTTA
AATTTTTTAGATTTATTTATTTATTTAGAGACAGGGTCTCACTCTAGCCCAGGCTGGAGTGCTGTGGCGTAATCT
TGGCTCACTGCAACCTCCGCCTCCCGGGCCCAAGTGATCCTCCCGTCTCAGCCTCCTGAGTAGCTGGGATTACAG
GCGCACACCACCAATGCCAGCTAGTTTTTGTGTTTTTTCATAGAGACAGGGTCTCACCATGTCATTCAAGACCAG
CCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAAATATATAACAATTAGCCAGGCGTGGTGGCACACGCCT
GTAAACCCAACTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAGCCCGGGAGAGGGAGGTTGCAGTGAGCCGAG
ATCATGCCACTGCACTCCAGCCTGGCTGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 14

MEYLLIGIQGPDYVLVASDRVAASNIVQMKDDHDKMFKMSEKILLLCVGEAGDTVQFAEYIQKNVQLYKMRNGYEL
SPTAAANFTRRNLDCLRSRTPYHVNLLLAGYDEHEGPALYYMDYLAALAKAPFAAHGYGAFLTLSILDRIYYTPT
ISRERAVELLRKCLEELQKRFILNLPFTFSVRIIDKNGIHDLDNISFPKQGS

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FIGURE 15

ACAGGCATTTTCCAAAGGCAAGCCTGGAGCGCACGGATCTGTATAACCGCGGAAGGCCCTGTTTCCGGTCCCTTG
CGCCTGCGCTCTTGAGCCAAGAAGGCGGGAGGCTGGAGTAGAGGGAAGCCTGCAACCGGAAGTGAAGGCAGATT
TCCCTCCTTCGTCGCTGTTGCTGCCGCCATACGCGCTCTCCCTGTTTAGTTATGGCAGAGAACGATGTGGACAAT
GAGCTCTTGGACTATGAAGATGATGAGGTGGAGACAGCAGCTGGGGGAGATGGGGCTGAGGCCCCCTGCCAAGAAG
GATGTCAAGGGCTCCTATGTCTCCATCCACAGCTCTGGCTTTCGTGACTTCCTGCTCAAGCCAGAGTTGCTCCGG
GCCATTGTCGACTGTGGCTTTGAGCATCCGTCAGAAGTCCAGCATGAGTGCATCCCTCAGGCCATTCTGGGAATG
GATGTCCTGTGCCAGGCCAAGTCGGGCATGGGAAAGACAGCAGTGTGTTGTCTTGGCCACACTGCAACAGCTGGAG
CCAGTTACTGGGCAGGTGTCTGTGCTGGTGATGTGTCACTCGGGAGTTGGCTTTTTCAGATCAGCAAGGAATAT
GAGCGCTTCTCTAAATACATGCCCAATGTCAAGGTTGCTGTTTTTTTTTGGTGGTCTGTCTATCAAGAAGGATGAA
GAGGTGCTGAAGAAGAACTGCCCCGATATCGTCGTGGGGACTCCAGGCCGTATCCTAGCCCTGGCTCGAAATAAG
AGCCTCAACCTCAAACACATTAAACACTTTATTTTGGATGAATGTGATAAGATGCTTGAACAGCTCGACATGCGT
CGGGATGTCCAGGAAATTTTTTCGCATGACCCCCACGAGAAGCAGGTCATGATGTTTCAAGTGTACCTTGAGCAA
GAGATCCGTCCAGTCTGCCGCAAGTTCATGCAAGATCCAATGGAGATCTTCGTGGATGATGAGACGAAGTTGACG
CTGCATGGGTTGCAGCAGTACTACGTGAACTGAAGGACAACGAGAAGAACCGGAAGCTCTTTGACCTTCTGGAT
GTCCTTGAGTTCAACCAGGTGGTGATCTTTGTGAAGTCTGTGCAGCGGTGCATTGCCTTGGCCAGCTACTAGTG
GAGCAGAACTTCCCAGCCATTGCCATCCACCGTGGGATGCCCCAGGAGGAGAGGCTTTCTCGGTATCAGCAGTTT
AAAGATTTTCAACGACGAATCTTGTGGCTACCAACCTATTTGGCCGAGGCATGGACATCGAGCGGGTGAACATT
GCTTTTAATTATGACATGCCTGAGGATTCTGACACCTACCTGCATCGGGTGGCCAGAGCAGGCCGGTTTGGCACC
AAGGGCTTGGCTATCACATTTGTGTCCGATGAGAATGATGCCAAGATCCTCAATGATGTGCAGGATCGCTTTGAG
GTCAATATTAGTGAGCTGCCTGATGAGATAGACATCTCCTCCTACATTGAACAGACACGGTAGAAGACTCGCCCA
TTTTGGAATGTGACCGTCTGTCTTCAGGAGAGGACACCAGGGTGGGGGTGAAGGAGACACTACTGCCCCACCC
CTGACAGCCCCACCCCATGGCTTCCATCTTTTGCATCACCACCCTCCTGAACCCCCATTTCTGATTTGTCAGA
ATTTTTTTTTTAACAAACTAAAAATGAAACACATGTGTCTGTGGTATCTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 16

MAENDVDNELLDYEDDEVETAAGGDGAEAPAKKDVKGSYVSIHSSGFRDFFLLKPELLRAIVDCGFEHPSEVQHEC
IPQAILGMDVLCQAKSGMGKTAVFVLATLQQLEPVTGQVSVLVMCHTRELAFQISKEYERFSKYMPNVKVAVFFG
GLSIKKDEEVLKKNCPHIVVGTPGRILALARNKSLNLKHIKHFILDEC DKMLEQLDMRRDVQEIFRMTPEKQVM
MFSATLSKEIRPVCRKFMQDPMEIFVDDETKLT LHGLQQYYVKLKDNEKNRKLF DLLDVLEFNQVVIFVKSQRC
IALAQLLVEQNFP AIAIHRGMPQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNI AFNYDMPEDSDTYLHRV
ARAGRFGTKGLAITFVSDENDAKILNDVQDRFEVNI SELPDEIDISSYIEQTR

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FIGURE 17

GCGGCGTTGTAGTTAAGCTCGTGTAACGGCGGCGGTGTCGGCAGCTGCTGTAGCGAAGAGAGTTTGGCGCGATGT
CTCACACCATTTTGCTGGTACAGCCTACCAAGAGGCCAGAAGGCAGAACTTATGCTGACTACGAATCTGTGAATG
AATGCATGGAAGGTGTTTGTAATAATGTATGAAGAACATCTGAAAAGAATGAATCCCAACAGTCCCTCTATCACAT
ATGACATCAGTCAGTTGTTTGATTTTCATCGATGATCTGGCAGACCTCAGCTGCCTGGTTTACCGAGCTGATACCC
AGACATACCAGCCTTATAACAAAGACTGGATTAAAGAGAAGATCTACGTGCTCCTTCGTCCGCAGGCCCAACAGG
CTGGGAATAATTGTGTTGGAAGCACTGGGGGGGTGGGGTGGGCTTGGAACACAGGTGTGTACAGCGTGCTGTA
GTGGAAGTTTTGTATCATAGTAATCCTGTTTCCACTTTGTTATACTCTAGCCAAGATTGACTGTATTAGATGAAA
TGTGAGGATCTTGTTCAATCGGAAACCCCGTTACCTCCTCTTTTCTTTCTTTCTTTTTTTTTTTTTTACTT
AAACATTTTTATGATGATTTAGATGGAAGTTGTTCTTCGTCACTTAATGTTGGTTCCAGTCCTTCAACTGTTTCAT
ATCTACTTTATAACATTACATACTAACCCTTCTTCAAGATGGGGTGGGGGTGGAAATGCAGTTTAGCCATGTC
CTCAAGATAAAGTCTTGGTAAAAATAAATAAATGTCCTTTAGTTATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 18

MSHTILLVQPTKRPEGRTYADYESVNECMEGVCKMYEEHLKRMNPNPSITYDISQLFDFIDDLADLSCLVYRAD
12TYQPYNKDWIKEKIYVLLRRQAQQAGK

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FIGURE 19

CGGTTGGTGCGGCCTCCATTGTTTCGTGTTTTAAGGCGCCATGAGGGGTGACAGAGGCCGTGGTCGTGGTGGGCGC
TTTGGTTCCAGAGGAGGCCAGGAGGAGGGTTCAGGCCCTTTGTACCACATATCCCATTTGACTTCTATTTGTGT
GAAATGGCCTTTCCCCGGGTCAAGCCAGCACCTGATGAACTTCCTTCAGTGAGGCCTTGCTGAAGAGGAATCAG
GACCTGGCTCCCAATTCTGCTGAACAGGCATCTATCCTTTCTCTGGTGACAAAAATAACAATGTGATTGATAAT
CTGATTGTGGCTCCAGGGACATTTGAAGTGCAAATTGAAGAAGTTCGACAGGTGGGATCCTATAAAAAAGGGGACA
ATGACTACAGGACACAATGTGGCTGACCTGGTGGTGATACTCAAGATTCTGCCAACGTTGGAAGCTGTTGCTGCC
CTGGGGAACAAAGTCGTGGAAAGCCTAAGAGCACAGGATCCTTCTGAAGTTTAAACCATGCTGACCAACGAACT
GGCTTTGAAATCAGTTCTTCTGATGCTACAGTGAAGATTCTCATTACAACAGTGCCACCCAATCTTCGAAAAGT
GATCCAGAACTCCATTTGGATATCAAAGTATTGCAGAGTGCCTTAGCAGCCATCCGACATGCCCGCTGGTTCGAG
GAAAATGCTTCTCAGTCCACAGTTAAAGTTCTCATCAGACTACTGAAGGACTTGAGGATTCGTTTTCTGGCTTT
GAGCCCCCTCACACCCTGGATCCTTGACCTACTAGGCCATTATGCTGTGATGAACAACCCACCAGACAGCCTTTG
GCCCTAAACGTTGCATACAGGCGCTGCTTGCAGATTCTGGCTGCAGGACTGTTCTGCCAGGTTGAGTGGGTATC
ACTGACCCCTGTGAGAGTGGCAACTTTAGAGTACACACAGTCATGACCCTAGAACAGCAGGACATGGTCTGCTAT
ACAGCTCAGACTCTCGTCCGAATCCTCTCACATGGTGGCTTTAGGAAGATCCTTGGCCAGGAGGGTGATGCCAGC
TATCTTGCTTCTGAAATATCTACCTGGGATGGAGTGATAGTAACACCTTCAGAAAAGGCTTATGAGAAGCCACCA
GAGAAGAAGGAAGGAGAGGAAGAAGAGGAGAATACAGAAAAGAACCTCAAGGAGAGGAAGAAGAAGCATGGA
AACTCAGGAGTGACATTCCCTTCACTCCTTTTCTACCCAAGGGAAAGACTGGAGCCTTAAGCTGCCTGCTACTGG
CTTTACATGGTGACAGACATTCCGTGGATAGGAAGATAGCAGGAGAAAGTAACCTCATAGAGTGTCAATTCCACTG
GTTGATATTGGCTTAGCTGCCAGTCTCCCATTTGTGACCTATGCCATCCATCTATAATGGAGGATACCAACATTT
CTTCCTAATATTCTATAATCTCCAACCTCTGAAAACCCCTCTCTCAACTAATACTTTGCTGTTGAAATGTTGTGA
AATGTTAAGTGTCTGGAAATTTTTTTTTCTAAGAAAACTATTAAAGTACTT

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FIGURE 20

MRGDRGRGRGGFRFGSRGGPGGGFRPFVPHIPFDFYLCEMAFPRVKPAPDETSFSEALLKRNQDLAPNSAEQASIL
SLVTKINNVIDNLIVAPGTFEVQIEEVRQVGSYKKGTMTTGHNVADLVVILKILPTLEAVAALGNKVESLRAQD
PSEVLTMLTNETGFEISSDATVKILITTVPNLRKLDPELHLDIKVLQSALAAIRHARWFEENASQSTVKVLIR
LLKDLRIRFPGFEP LTPWILDLLGHYAVMNNPTRQPLALNVAYRRCLQILAAGLFLPGSVGITDPCESGNFRVHT
VMTLEQQDMVCYTAQTLVRILSHGGFRKILGQEGDASYLASEISTWDGVIVTPSEKAYEKPPEKKEGEEEEENTE
RTTSRRGRRKHGNSGVTFPSLLFLPKGKTGA

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FIGURE 21

CTCCGGCGCAGTGTGTTGGGACTGTCTGGGTATCGGAAAGCAAGCCTACGTTGCTCACTATTACGTATAATCCTTTT
CTTTTCAAGATGCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGGCAGAAATTGCC
CAACTCATGTCCCTCATCATCAATACCTTCTATTCCAACAAGGAGATTTTCCTTCGGGAGTTGATCTCTAATGCT
TCTGATGCCTTGGACAAGATTGCTATGAGAGCCTGACAGACCCTTCGAAGTTGGACAGTGGTAAAGAGCTGAAA
ATTGACATCATCCCAACCCTCAGGAACGTACCCTGACTTTGGTAGACACAGGCATTGGCATGACCAAGCTGAT
CTCATAAATAATTTGGGAACCATTGCCAAGTCTGGTACTAAAGCATTTCATGGAGGCTCTTCAGGCTGGTGCAGAC
ATCTCCATGATTGGGCAGTTTGGTGTGGCTTTTATTCTGCCTACTTGGTGGCAGAGAAAGTGGTTGTGATCACA
AAGCACAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTCTTCCTTCACTGTGCGTGCTGACCATGGT
GAGCCCATTGGCAGGGGTACCAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTACCTAGAAGAGAGGCGG
GTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCATAGGCTATCCCATCACCTTTTATTGGAGAAGGAACGAGAG
AAGGAAATTAGTGATGATGAGGCAGAGGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAAAGATGATGAAGAAAA
CCCAAGATCGAAGATGTGGGTTCAGATGAGGAGGATGACAGCGGTAAGGATAAGAAGAAGAACTAAGAAGATC
AAAGAGAAATACATTGATCAGGAAGAACTAAACAAGACCAAGCCTATTTGGACCAGAAACCCTGATGACATCACC
CAAGAGGAGTATGGAGAATTCTACAAGAGCCTCACTAATGACTGGGAAGACCACTTGGCAGTCAAGCACTTTTCT
GTAGAAGGTGAGTTGGAATTCAGGGCATTGCTATTTATTCTCGTGGGCTCCCTTTGACCTTTTGGAGAACAAG
AAGAAAAAGAACAACATCAAACCTCTATGTCCGCCGTGTGTTTCATCATGGACAGCTGTGATGAGTTGATACCAGAG
TATCTCAATTTTATCCGTGGTGTGGTTGACTCTGAGGATCTGCCCCCTGAACATCTCCCGAGAAATGCTCCAGCAG
AGCAAAATCTTGAAAGTCATTGCAAAAACATTGTTAAGAAGTGCCTTGAGCTCTTCTCTGAGCTGGCAGAAGAC
AAGGAGAATTACAAGAAATTCTATGAGGCATTCTCTAAAAATCTCAAGCTTGGAATCCACGAAGACTCCACTAAC
CGCCGCCCTGTCTGAGCTGCTGCGCTATCATACCTCCAGTCTGGAGATGAGATGACATCTCTGTGAGAGTAT
GTTTCTCGCATGAAGGAGACACAGAAGTCCATCTATTACATCACTGGTGAGAGCAAAGAGCAGGTGGCCAACCTCA
GCTTTTGTGGAGCGAGTGGGAAACGGGGCTTCGAGGTGGTATATATGACCGAGCCATTGACGAGTACTGTGTG
CAGCAGCTCAAGGAATTTGATGGGAAGAGCCTGGTCTCAGTTACCAAGGAGGGTCTGGAGCTGCCTGAGGATGAG
GAGGAGAAGAAGAAGATGGAAGAGAGCAAGGCAAAGTTTGAGAACCTCTGCAAGCTCATGAAAGAAATCTTAGAT
AAGAAGGTTGAGAAGGTGACAATCTCCAATAGACTTGTGTCTTCACCTTGCTGCATTGTGACCAGCACCTACGGC
TGGACAGCCAATATGGAGCGGATCATGAAAGCCAGGCACTTCGGGACAACCTCCACCATGGGCTATATGATGGCC
AAAAAGCACCTGGAGATCAACCCTGACCACCCCATTTGTGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAAT
GATAAGGCAGTTAAGGACCTGGTGGTGTGCTGCTGTTTGAACCGCCCTGCTATCTTCTGGCTTTTCCCTTGAGGAT
CCCCAGACCCACTCCAACCGCATCTATCGCATGATCAAGCTAGGTCTAGGTATTGATGAAGATGAAGTGGCAGCA
GAGGAACCCAATGCTGCAGTTCTGATGAGATCCCCCTCTCGAGGGCGATGAGGATGCGTCTCGCATGGAAGAA
GTGATATTAGGTTAGGAGTTCATAGTTGGAAAACCTGTGCCCTTGATAGTGTCCCCATGGGCTCCCACTGCAGCC
TCGAGTGCCCTGTCCCACCTGGCTCCCCCTGCTGGTGTCTAGTGTTTTTTCCCTCTCCTGTCTTGTGTGAA
GGCAGTAACTAAGGGTGTCAAGCCCCATTCCCTCTCTACTCTTGACAGCAGGATTGGATGTTGTGTATTGTGGT
TTATTTTATTTTCTTCATTTTGTCTGAAATTAAAGTATGCAAAATAAAGAATATGCCGTTTTAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 22

MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLD SGKELKIDI
IPNPQERTLTTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHN
DDEQYAWESSAGGSFTVRADHGEP IGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEI
SDDEAEEEEKGEKEEEDKDDEEKPKIEDVGSDEEDDSGKD KKKKTKKIKEKYIDQEELNKT KPIWTRNPDDITQEE
YGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCELIPEYLN
FIRGVVDS EDLPLNISREMLQOSKILKVIRKNIVKKCLELFS ELAEDKENYKKFYEAFSKNLKLGIHEDSTNRRR
LSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANS AFVERVRKRGFEVVYMT EPIDEYCVQQL
KEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTA
NMERIMKAQALRDNSTMGYMAKKHLEINPDHP IVETLRQAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQT
HSNRIYRMIKLGLGIDEDEVA AE PNAAVPDEIPPLEGDEDASRMEEVD

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FIGURE 23

GCAAAACCAACGCCTGGCTCGGAGCAGCAGCCTCTGAGGTGTCCCTGGCCAGTGTCTTCCACCTGTCCACAAGC
ATGGGGAACATCTTCGCCAACCTCTTCAAGGGCCTTTTGGCAAAAAGAAATGCGCATCCTCATGGTGGGCCTG
GATGCTGCAGGGAAGACCACGATCCTCTACAAGCTTAAGCTGGGTGAGATCGTGACCACCATTCCACCATAGGC
TTCAACGTGGAAACCGTGGAGTACAAGAACATCAGCTTCACTGTGTGGGACGTGGGTGGCCAGGACAAGATCCGG
CCCCTGTGGCGCCACTACTTCCAGAACACACAAGGCCTGATCTTCGTGGTGGACAGCAATGACAGAGAGCGTGTG
AACGAGGCCCGTGAGGAGCTCATGAGGATGCTGGCCGAGGACGAGCTCCGGGATGCTGTCTCCTGGTGTTCGCC
AACAAGCAGGACCTCCCCAACGCCATGAATGCGGCCGAGATCACAGACAAGCTGGGGCTGCACTCACTACGCCAC
AGGAAGTGGTACATTGAGGCCACCTGCGCCACCAGCGGCGACGGGCTCTATGAAGGACTGGACTGGCTGTCCAAT
CAGCTCCGGAACCAAGTGAACGCGACCCCCCTCCCTCTCACTCCTCTTGCCCTCTGCTTTACTCTCATGTGGC
AAACGTGCGGCTCGTGGTGTGAGTGCCAGAAGCTGCCTCCGTGGTTTGGTCAACCGTGTGCATCGCACCGTGTGT
AAATGTGGCAGACGCAGCCTGCGGCCAGGCTTTTTATTTAATGTAAATAGTTTTTGTTCATGAGGCAGTTTC
TGGTACTCCTATGCAATATTACTCAGCTTTTTTTATTGTAAAAAGAAAAATCAACTCACTGTTCACTGCTGAGAG
GGGATGTAGGCCCATGGGCACCTGGCCTCCAGGAGTCGCTGTGTTGGGAGAGCCGGCCACGCCCTTGGCTTAGAG
CTGTGTTGAAATCCATTTTGGTGGTTGGTTTTAACCCTCACTGAGTGCATTTTTTAAATAGTTAAGAATCCAAG
TCGAGAACACTTGAACACACAGAAGGGAGACCCCGCTAGCATAGATTTGCAGTTACGGCCTGGATGCCAGTCGC
CAGCCCAGCTGTTCCTCTCGGGAACATGAGGTGGTGGTGGCGCAGCAGACTGCGATCAATTCTGCATGGTCACAG
TAGAGATCCCCGCAACTCGCTTGTCTTGGGTACCCCTGCATTCCATAGCCATGTGCTTGTCCCTGTGCTCCAC
GGTTCCAGGGGCCAGGCTGGGAGCCACAGCCACCCCACTATGCCCGAGGCCGCCCTACCCACCTTCAGGCAGC
CTATGGGACGCAGGCCCCATCTGTCCCTCGGTCCGCGTGTGGCCAGAGTGGTCCGTCGTCCCCAACACTCGTGCT
CGCTCAGACACTTTGGCAGGATGTCTGGGGCCTCACCAGCAGGAGCGCGTGCAAGCCGGGCAGGCGGTCCACCTA
GACCACAGCCCCCTCGGGAGCACCCACCTCTGTGTGTGATGTAGCTTTCTCTCCCTCAGCCTGCAAGGGTCCGA
TTTGCCATCGAAAAAGACAACCTCTACTTTTTTCTTTTGTATTTTGATAAACACTGAAGCTGGAGCTGTTAAATT
TATCTTGGGGAAACCTCAGAACTGGTCTATTTGGTGTGCTAGGAACCTCTTACTGCTTTCAATACAGATTAGTA
ATCAACTGTTTTGTATACCTGTTTTTCAGTTTTTCATTTGACAAACAAGCACTGTAATTATAGCTATTAGAATAAA
ATCTCTTAACCTATT

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FIGURE 24

MGMIFANLFKGLFGKKEMRILMVGLDAAGKTTILYKCLKLGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIR
P.LWRHYFQNTQGLIFVVDSNDRERVNEAREELMRMLAEDEL RDAVLLVFANKQDLPNAMNAAEITDKLGLHSLRH
RNWYIQATCATSGDGLYEGLDWLSNQLRNQK

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FIGURE 25

CGCGCCGGGAACAGCCAGTCGGTGCCTAACCGGAGTGTATCTCGAGAGAGAAGCGATCAACAGCTGCCGGTCTGC
GCCTGCGCGGCGACGGGGCGTGGCCGCGGGCGAGTGGGGCCAAGGAGGCAGCCGGGAGCGGGGGCGCAGGTGTTA
CTGGTTGCGTCGGGTACGTGGGCGCGCAGCAGACCGCGGTGCAGCCCGTTCGCTCACACAAAGCCCAGACGCGG
AGAAAATGCGCGGCAGGGGTCAAGCGGGCGGCGGAGGTGGCGGCGACGGAGATCAAAATGGAGGAAGAGAGCGGCG
CGCCCGGCGTGCCGAGCGGCAACGGGGCTCCGGGGCCCTAAGGGTGAAGGAGAACGACCTGCTCAGAATGAGAAGA
GGAAGGAGAAAAACATAAAAAGAGGAGGCAATCGCTTTGAGCCATATGCCAATCCAACATAAAGATACAGAGCCT
TCATTACAAACATACCTTTTGTATGTGAAATGGCAGTCACTTAAAGACCTGGTTAAAGAAAAAGTTGGTGAGGTAA
CATACGTGGAGCTCTTAATGGACGCTGAAGGAAAGTCAAGGGGATGTGCTGTTGTTGAATTCAAGATGGAAGAGA
GCATGAAAAAAGCTGCGGAAGTCTTAAACAAGCATAGTCTGAGCGGAAGACCACTGAAAGTCAAAGAAGATCCTG
ATGGTGAACATGCCAGGAGAGCAATGCAAAAGGTGATGGCTACGACTGGTGGGATGGGTATGGGACCAGGTGGCC
CAGGAATGATTACTATCCCAACCCAGTATCCTAAATAATCCCAACATCCCAAATGAGATTATCCATGCATTACAGG
CTGGAAGACTTGGAAGCACAGTATTTGTAGCAAATCTGGATTATAAAGTTGGCTGGAAGAACTGAAGGAAGTAT
TTAGTATGGCTGGTGTGGTGGTCCGAGCAGACATTCTTGAAGATAAAGATGGAAAAAGTCGTGGAATAGGCACTG
TTACTTTTGAACAGTCCATTGAAGCTGTGCAAGCTATATCTATGTTCAATGGCCAGCTGCTATTTGATAGACCAA
TGCACGTCAAGATGGATGAGAGGGCCTTACCAAAAGGAGATTTCTTCCCTCCTGAGCGTCCACAACAACCTCCCC
ATGGCCTTGGTGGTATTGGCATGGGGTTAGGACCAGGAGGGCAACCCATTGATGCCAATCACCTGAATAAAGGCA
TCGGAATGGGAAACATAGGTCCCGCAGGAATGGGAATGGAAGGCATAGGATTGGGAATAAATAAATGGGAGGAA
TGGAGGGGGCCCTTTGGTGGTGGTATGGAAGAAATGGGTGCAATTTGGATCTGGGATGAACATGGGCAGGATAAATG
AAATCCTAAGTAATGCACTGAAGAGAGGAGAGATCATTGCAAGCAGGGAGGAGGTGGAGGTGGAGGAAGCGTCC
CTGGGATCGAGAGGATGGGTCTGGCATTGACCGCCTCGGGGGTGCCGGCATGGAGCGCATGGGCGCGGGCCCTGG
GCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCATGGGCCTGGTTCATGGACCGCATGGGCTCCGTGGAGC
GCATGGGCTCCGGCATTGAGCGCATGGGCCCGCTGGGCCTCGACCACATGGCCTCCAGCATTGAGCGCATGGGCC
AGACCATGGAGCGCATTGGCTCTGGCGTGGAGCGCATGGGTGCCGGCATGGGCTTCGGCCTTGAGCGCATGGCCG
CTCCCATCGACCGTGTGGGCCAGACCATTGAGCGCATGGGCTCTGGCGTGGAGCGCATGGGCCCTGCCATCGAGC
GCATGGGCCTGAGCATGGAGCGCATGGTGCCCGCAGGTATGGGAGCTGGCCTGGAGCGCATGGGGCCCCGTGATGG
ATCGCATGGCCACCGGCCTGGAGCGCATGGGCGCCAACAATCTGGAGCGGATGGGCCTGGAGCGCATGGGCGCCA
ACAGCCTCGAGCGCATGGGCCTGGAGCGCATGGGTGCCAACAGCCTCGAGCGCATGGGGCCCCGCCATGGGGCCCG
CCCTGGGCGCTGGCATTGAGCGCATGGGCCTGGCCATGGGTGGCGGTGGCGGTGCCAGCTTTGACCGTGCCATCG
AGATGGAGCGTGGCAACTTCGGAGGAAGCTTCGCAGGTTCCCTTTGGTGGAGCTGGAGGCCATGCTCCTGGGGTGG
CCAGGAAGGCCTGCCAGATATTTGTGAGAAATCTGCCATTGATTTACATGGAAGATGCTAAAGGACAAATTCA
ACGAGTGGCGCCACGTGCTGTACGCCGACATCAAGATGGAGAATGGGAAGTCCAAGGGGTGTGGTGTGGTTAAGT
TCGAGTGGCCAGAGGTGGCCGAGAGAGCCTGCCGGATGATGAATGGCATGAAGCTGAGTGGCCGAGAGATTGACG
TTGCAATTGATAGAAACGCTTAAGCAGTTGCCTTTTTTAAACATCGATACGAGACCTCTGAATTTGTATTTTTC
TTGTTAACCATTTTAATTTGTTGGCTGGATGTATAAAGATGTTTAAAAAATTCAGTTGCTTTTTGGGGTAATTTG
AATTACTTTTTTAATGACTGGGGTTCCATTTGACTGTTTGATTGAGATTGCAATGTGCGCAATTTTTTTGTAG
TTGTGGCATCTTGTGACATCGAATATGACTTTGATAATAAATACCGGTTCTTGAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 26

MAAGVEAAAEVAATEIKMEEESGAPGVPSGNGAPGPKGEGERPAQNEKRKEKNIKRGGNRFEPYANPTKRYRAFI
TNIPFDVKWQSLKDLVKEKVGEVTYVELLMDAEGKSRGCAVVEFKMEESMKKAAEVLNKHSLSGRPLKVKEPDG
EHARRAMQKVMATTGGMGMPGGPGMITIPPSILNNPNIPNEIIHALQAGRLGSTVFVANLDYKVGWKKLKEVFS
MAGVVVRADILEDKDGKSRGIGTVTFEQSIEAVQAISMFNGQLLFDRPMHVKMDERALPKGDFFPFERPQQLPHG
LGGIGMGLGPGGQPIDANHLNKGIGMGNIGPAGMGMEGIGFGINKMGGMEGPFGGGMENMGRFGSGMNMGRINEI
LSNALKRGEIIAKQGGGGGGGSGVPGIERMGPIDRLGGAGMERMGAGLGHGMDRVGSEIERMGLVMDRMGSVERM
GSGIERMGPLGLDHMASSIERMGQTMERIGSGVERMGAGMGFGLERMAAPIDRVGQTIERMGSVERMGPAIERM
GLSMERMVPAGMGAGLERMGPVMDRMATGLERMGANNLERMGLERMGANSLERMGLERMGANSLERMGPAMGPAL
GAGIERMGLAMGGGGGASFDRAIEMERGNFGGSFAGSFAGGAGGHAPGVARKACQIFVRNLPFDFTWKMLKDKFNE
CGHVLYADIKMENGKSKGCGVVKFESPEVAERACRMMNGMKLSGREIDVRIDRNA

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FIGURE 27

CGGCGCCATTAAAGCGAGGAGGAGGCGAGAGCGGCCGCCGCTGGTGCTTATTCTTTTTTAGTGACGCGGGAGAGA
GCGGGAGTGTGCGCCGCGCGAGAGTGGGAGGCCAAGGGGGCAGGCCAGGGAGAGGCGCAGGAGCCTTTGCAGCCA
CGCGCGCGCCTTCCCTGTCTTGTGTGCTTCGCGAGGTAGAGCGGGCGCGCGGCAGCGCGGGGATTACTTTGCTGC
TAGTTTCGGTTTCGCGGCAGGCGGGTGTAGTCTCGGCGGCAGCGCGGAGACACTAGCACTATGTCGGAGGAGCAG
TTCGGCGGGGACGGGGCGGCGGCAGCGGCAACGGCGGCGGTAGGCGGCTCGGCGGGCGAGCAGGAGGGAGCCATG
GTGGCGGCGACACAGGGGGCAGCGGCGGCGGCGGGAAGCGGAGCCGGGACCGGGGGCGGAACCGCGTCTGGAGGC
ACCGAAGGGGGCAGCGCCGAGTCGGAGGGGGCGAAGATTGACGCCAGTAAGAACGAGGAGGATGAAGGCCATTCA
AACTCCTCCCCACGACACTCTGAAGCAGCGACGGCACAGCGGGAAGAATGGAATGTTTATAGGAGGCCTTAGC
TGGGACACTACAAAAGAAAGATCTGAAGGACTACTTTTCCAAATTTGGTGAAGTTGTAGACTGCACTCTGAAGTTA
GATCCTATCACAGGGCGATCAAGGGGTTTTGGCTTTGTGCTATTTAAAGAATCGGAGAGTGTAGATAAGGTCATG
GATCAAAAAGAACATAAATTGAATGGGAAGGTGATTGATCCTAAAAGGGCCAAAGCCATGAAAACAAAAGAGCCG
GTTAAAAAAATTTTTGTTGGTGGCCTTTCTCCAGATACACCTGAAGAGAAAAATAAGGGAGTACTTTGGTGGTTTT
GGTGAGGTGGAATCCATAGAGCTCCCATGGACAACAAGACCAATAAGAGGCGTGGGTTCTGCTTTATTACCTTT
AAGGAAGAAGAACCAGTGAAGAAGATAATGGAAGAAATACCACAATGTTGGTCTTAGTAAATGTGAAATAAAA
GTAGCCATGTGAAGGAACAATATCAGCAACAGCAACAGTGGGGATCTAGAGGAGGATTTGCAGGAAGAGCTCGT
GGAAGAGGTGGTGGCCCCAGTCAAACTGGAACCAGGGATATAGTAACCTATTGGAATCAAGGCTATGGCAACTAT
GGATATAACAGCCAAGGTTACGGTGGTTATGGAGGATATGACTACACTGGTTACAACAACCTACTATGGATATGGT
GATTATAGCAACCAGCAGAGTGGTTATGGGAAGGTATCCAGGCGAGGTGGTCATCAAAATAGCTACAAACCATAC
TAAATTATTCCATTTGCAACTTATCCCCAACAGGTGGTGAAGCAGTATTTTCCAATTTGAAGATTCAATTTGAAGG
TGGCTCCTGCCACCTGCTAATAGCAGTTCAAACATAAATTTTTGTATCAAGTCCCTGAATGGAAGTATGACGTTG
GGTCCCTCTGAAGTTTAATTCTGAGTTCTCATTAAAGAAATTTGCTTTTATTGTTTTATTCTTAATTGCTATG
CTTCAGAATCAATTTGTGTGTTATGCCCTTTCCCCCAGTATTGTAGAGCAAGTCTTGTGTTAAAAGCCAGTGTG
ACAGTGTCAATGATGTAGTAGTGTCTTACTGGTTTTTAATAAATCCTTTTGTATAAAAATGTATTGGCTCTTTTA
TCATCAGAATAGGAAAAATTGTCATGGATTCAAGTTATTAAGCATAAGTTTGAAGACAGGCTTGCCGAAATT
GAGGACATGATTAAAATTGCAGTGAAGTTGAAATGTTTTAGCAAAATCTAATTTTGCCATAATGTGTCTCTCC
CTGTCCAAATTGGGAATGACTTAATGTCAATTTGTTTGGTGGTTGTTTTAATAATACTTCCTTATGTAGCCATTA
AGATTTATATGAATATTTTCCCAAATGCCAGTTTTTGCTTAATATGTATTGTGCTTTTGTAGAACAAATCTGGAT
AAATGTGCAAAAGTACCCCTTTGCACAGATAGTTAATGTTTTATGCTTCCATTAAATAAAAAGGACTTAAATCT
GTTAATTATAATAGAAATGCGGCTAGTTCAGAGAGATTTTTAGAGCTGTGGTGGACTTCATAGATGAATTCAGT
GTTGAGGGAGGATTAAAGAAAT

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FIGURE 28

MSEEQFGGDGAAAAATAAVGGSAGEQEGAMVAATQGAAAAAGSGAGTGGGTASGGTEGGSAESEGAKIDASKNEE
DEGHSNSSPRHSEAATAQREEWKMF IGGLSWDTTKKDLKDYFSKFGEVVDCTLKLDPI TGRSRGFGFVLFKESES
VDKVMQKEHKLNGKVIDPKRAKAMKTKEPVKKIFVGGLSPDTPEEKIREYFGGFGEVESIELPMDNKTNKRRGF
CFITFKEEEPVKKIMEKKYHNVGLSKCEIKVAMSKEQYQQQQQWGSRRGFAGRARGRGGGPSQÑWNQGYSNYWNQ
GYGNYGYNSQGYGGYGGYDYGYNYYGYGDYSNQSGYGKVSRRGGHQNSYKPY

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FIGURE 29

GTACTATCCTCCTTACTTTTGGGTCGGGCCCTCCGGGAAGATGCGGCCGTGCAGGCGGCCGAGGTGAAAGTGGA
TGGCAGCGAGCCGAAACTGAGCAAGAATGAGCTGAAGAGACGCCTGAAAGCTGAGAAGAAAGTAGCAGAGAAGGA
GGCCAAACAGAAAGAGCTCAGTGAGAAACAGCTAAGCCAAGCCACTGCTGCTGCCACCAACCACACCACTGATAA
TGGTGTGGGTCCTGAGGAAGAGAGCGTGACCCAAATCAATACTACAAAATCCGCAGTCAAGCAATTCATCAGCT
GAAGGTCAATGGGGAAGACCCATACCCACACAAGTTCCATGTAGACATCTCACTCACTGACTTCATCCAAAAATA
TAGTCACCTGCAGCCTGGGGATCACCTGACTGACATCACCTTAAAGGTGGCAGGTAGGATCCATGCCAAAAGAGC
TTCTGGGGGAAAGCTCATCTTCTATGATCTTCGAGGAGAGGGGGTGAAGTTGCAAGTCATGGCCAATTCCAGAAA
TTATAAATCAGAAGAAGAATTTATTCATATTAATAACAACTGCGTCGGGGAGACATAATTGGAGTTCAGGGGAA
TCCTGGTAAAACCAAGAAGGGTGAGCTGAGCATCATTCGGTATGAGATCACACTGCTGTCTCCCTGTTTGCAAT
GTTACCTCATCTTCACTTTGGGCTCAAAGACAAGGAAACAAGGTATCGCCAGAGATACTTGGACTTGATCCTGAA
TGACTTTGTGAGGCAGAAATTTATCATCCGCTCTAAGATCATCATATATAAGAAGTTTCTTAGATGAGCTGGG
ATTCTAGAGATTGAAACTCCCATGATGAACATCATCCCAGGGGGAGCCGTGGCCAAGCCTTTCATCACTTATCA
CAACGAGCTGGACATGAACCTTATATATGAGAATTGCTCCAGAACTCTATCATAAGATGCTTGTGGTTGGTGGCAT
CGACCGGGTTTATGAAATTGGACGCCAGTTCCGGAATGAGGGGATTGATTTGACGCACAATCCTGAGTTCACCAC
CTGTGAGTTCTACATGGCCTATGCAGACTATCACGATCTCATGGAAATCACGGAGAAGATGGTTTCAGGGATGGT
GAAGCATATTACAGGCAGTTACAAGGTACCTACCACCCAGATGGCCCAGAGGGCCAAGCCTACGATGTTGACTT
CACCCACCCCTTCGGCGAATCAACATGGTAGAAGAGCTTGAGAAAGCCCTGGGGATGAAGCTGCCAGAAACGAA
CCTCTTTGAAACTGAAGAACTCGCAAAATTCCTTGATGATATCTGTGTGGCAAAAAGCTGTTGAATGCCCTCCACC
TCGGACCACAGCCAGGCTCCTTGACAAGCTTGTTGGGGAGTTTCTGGAAGTGACTTGTCATCAATCCTACATTCAT
CTGTGATCACCCACAGATAATGAGCCCTTTGGCTAAATGGCACCGCTCTAAAGAGGGTCTGACTGAGCGCTTTGA
GCTGTTTGTGTCATGAAGAAAGAGATATGCAATGCGTATACTGAGCTGAATGATCCCATGCGGCAGCGGCAGCTTTT
TGAAAGACAGGCCAAGGCCAAGGCTGCAGGTGATGATGAGGCCATGTTTCATAGATGAAAACCTTCTGTACTGCCCT
GGAATATGGGCTGCCCCCACAGCTGGCTGGGGCATGGGCATTGATCGAGTCGCCATGTTTCTACGGACTCCAA
CAACATCAAGGAAGTACTTCTGTTTCTGCCATGAAACCCGAAGACAAGAAGGAGAATGTAGCAACCACTGATAC
ACTGGAAGCACAACAGTTGGCACTTCTGTCTAGAAAATAATAATTGCAAGTTGTATAACTCAGGCGTCTTTGCA
TTTCTGCGAAAGATCAAGGTCTGCAAGGGAATTCTTGTGTGCTGCTTTCCATTTGACACCGCAGTTCTGTTTCAGC
CATCAGAAGAGAGACAAGGAATTAATAAATTTCTTTTAATCCTGTTA

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FIGURE 30

MAAVQAAEVKVDGSEPKLSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAATNHTTDNGVGPEEESVDPNQ
YKIRSQAIHQKLVNGEDPYPHKFHVDISLTDIFIQKYSHLQPGDHLTDITLKVAGRIHAKRASGGKLIFYDLRGE
GVKLQVMANSRNYKSEEEFIHINNKLRRGDIIGVQGNPGKTKKGELSIIPYEITLLSPCLHMLPHLHFGLKDKET
RYRQRYLDLILNDFVRQKFIIRSKIITYIRSFLDELGFLEIETPMNIIIPGGAVAKPFIITYHNELDMNLYMRIAP
HMLVVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDLMEITEKMVSGMVKHITGSYKVITYHP
QAYDVDFTPPFRINMVEELEKALGMKLPETNLFETEETRKILDDICVAKAVECPPPRTTARLLDKLVGE
TCINPTFICDHPQIMSPLAKWHSKEGLTERFELFVMKKEICNAYTELNDPMRQQLFEEQAKAKAAGDDE
FIDENFCTALEYGLPPTAGWGMGIDRVAMFLTDSNNIKEVLLFPAMKPEDKKENVATTDLTLESTTVGTSV

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FIGURE 31

GGGGAGAGAAGGCCCGGAGGGGCTCTGCGTTCTGTAGTGGCGCTGCTTGGGCCCCGTGGCGGATTGTAAGCTGCTG
GTTTTGCGGCTGGGAAGAGCGGCGAGAGGGTTCGGCATTTCGTCGGGATCCCCGCAAGGATGAGTGTGCCAG
AGAGTCTCACCCGCATGGGGTGAAGCGTTCAGCCTCCCCAGACGACGATCTGGGATCTAGCAATTGGGAGGCAGC
AGACTTGGGTAATGAAGAGAGAAAAACAAAAGTTCTTGAGACTTATGGGTGCAGGAAAGAAAGAACATACTGGTTCG
TCTTGTTATAGGAGATCACAAATCAACATCTCACTTCCGAACCGGGGAAGAAGACAAGAAAATTAATGAAGAACT
GGAGTCTCAATATCAGCAAAGTATGGACAGTAAATTATCAGGAAGATATCGGCGACATTGTGGACTTGGCTTCAG
TGAGGTAGAAGACCATGATGGAGAAGGTGATGTGGCTGGAGATGATGATGATGACGATGATGATTACCTGATCC
TGAAAGTCCAGATGATTCTGAAAGCGATTTCAGAGTCAGAGAAAGAAGAATCTGCTGAAGAACTCCAAGCTGCTGA
GCACCCTGATGAAGTGGAGGATCCCCAAAAACAAAAAGATGCAAAAAGCAATTATAAAATGATGTTTGTTAAATC
CAGTGGTTCATAACTCCCAAACGCTTAGTCTTTGTATTAAAAGTAAGCCTTATTGTTACAATGCACAGTGGAGGA
CTGCTTATAGAGCACAGACCTTTGTATTATAATTTTTAAAAAGGCCCTTTTAAATAATTACAAAGAGTGTTCGCT
TTCAAATGCCATGGGTTACACTTTTATGGGCATGACTATAACCATTTTTGTAAAGAGTAAGAGTTGTATAAAATA
AGAAATAAATACAGTACTCAACTTCCTTTTCATATTAGCATCATCAACCCTCTAATTCACCTTATGGGGGAAATGC
TTCTTTTTGTTTGATAGCTATTTTATCATTTCCTTCATATTTTTCTTTATAAAAAATGTATTTGATACTGTGA
TATGTTACGAAAAGTATTCTTTAATTATTCTTTGTTATAGTAGAGCTGTTTATTATGGATATTTCTGCTGCCAG
TCACAATCTAAATTAATTTTGGCAAAAGATTGGGTACTTAGTTGCCTGTTACTGAGTTAGCTCTACTCTTTTGGA
CCAAAGCAACATGAGAGCAAGTACTTTTCACACTTGTTAAGATGGAGTTATAACTGTCATACATTTGGAATATTA
TGATCCCAAGTAGTCTTTTTATAATTTGGATTGTATCGTATGTTAGATTTTTTGATAAAATTTGGCCAATTTTAC
AGAAGAAATTCCTGATCATTTAGTTCTATCTATTTAGAAATATGTAAAACTGGATTTTTTTTTTAAGTAATATGT
GACCAAAGTTAATTTTGTCCCAAAGGTCTAAATAAAGAGCAGTTTCCCACAAAAAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 32

MSAARESHPHGVKRSASPDDDI.GSSNWEAADLGNEERKQKFLRLMGAGKKEHTGRLVIGDHKSTSHFRTGEEDKK
INEELESQYQQSMDSKLSGRYRRHCGLGFSEVEDHDGEGDVAGDDDDDDDDSPDPESPDDSESDSESEKEESAEE
LQAAEHPDEVEDPKNKKDAKSNYKMMFVKSSGS

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FIGURE 33

GCGGTCAGCTATTGACACTTCCTGGTGGGATCCGAGTGAGGCGACGGGGTAGGGGTTGGCGCTCAGGCGGCGACC
ATGGCGTATCACGGCCTCACTGTGCCTCTCATTGTGATGAGCGTGTTCTGGGGCTTCGTGCGCTTCTTGGTGCCT
TGGTTCATCCCTAAGGGTCCTAACCGGGGAGTTATCATTACCATGTTGGTGACCTGTTGAGTTTGCTGCTATCTC
TTTTGGCTGATTGCAATTCTGGCCCAACTCAACCCTCTCTTTGGACCGCAATTGAAAAATGAAACCATCTGGTAT
CTGAAGTATCATTGGCCTTGAGGAAGAAGACATGCTCTACAGTGCTCAGTCTTTGAGGTCACGAGAAGAGAATGC
CTTCTAGATGCAAAATCACCTCCAAACCAGACCACTTTTCTTGACTTGCCTGTTTTGGCCATTAGCTGCCTTAAA
CGTTAACAGCACATTTGAATGCCTTATTCTACAATGCAGCGTGTTTTCTTTGCCTTTTTTGCACTTTGGTGAAT
TACGTGCCTCCATAACCTGAACTGTGCCGACTCCACAAAACGATTATGTACTCTTCTGAGATAGAAGATGCTGTT
CTTCTGAGAGATACGTTACTCTCTCCTTGGAATCTGTGGATTTGAAGATGGCTCCTGCCTTCTCACGTGGGAATC
AGTGAAGTGTTTAGAACTGCTGCAAGACAAACAAGACTCCAGTGGGGTGGTCAGTAGGAGAGCACGTTTCAGAGG
GAAGAGCCATCTCAACAGAATCGCACCAAATACTTTAGGATGAATTTCTTCTTTCTGCCATCTTTTGGAAT
AAATATTTTCTCCTTTCTATGGA

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FIGURE 34

MAYHGLTVPLIVMSVFWGFVGFLVPWFIPKGPNRGVIITMLVTCSVCCYLFWLIAILAQLNPLFGPQLKNETIWY
LKYHWP

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FIGURE 35

AGGAGCCAGGAAGAGAGCTGTGACCAGCAGCGTCCCTTATTCGCTTGGCCTTGGTTCCCTGTTTGCAGCTGGCTACA
GCAGGGCACTGGCCCCTACTGTACCCGCCACCTACACAAAGACCCTATCTCTGAGCGCTGCAGCCTACTGTTTCAG
CCCCAGGTTTTGAGGATGGATGCCCTGGACGCTTCGAAGCTACTGGATGAGGAGCTGTATTCAAGACAGCTGTATG
TGCTGGGCTCACCTGCCATGCAGAGGATTACAGGGAGCCAGGGTCCTGGTGTGAGGCCTGCAGGGCCTGGGGGCCG
AGGTGGCCAAGAACTTGGTTCTGATGGGTGTGGGCAGCCTCACTCTGCATGATCCCCACCCACCTGCTGGTCCG
ACCTGGCTGCCCAGTTTCTCCTCTCAGAGCAGGACTTGGAAGGAGCAGAGCCGAGGCCTCTCAAGAGCTCTTG
CTCAGCTCAACAGAGCTGTCCAGGTCGTCGTGCACACGGGTGACATCACTGAGGACCTGCTGTTGGACTTCCAGG
TGGTGGTGCTGACTGCTGCAAAGCTGGAGGAGCAGCTGAAGGTGGGCACCTTGTGTGATAAGCATGGAGTTTGCT
TTCTGGCGGCTGACACCCGGGGCCTCGTGGGGCAGTTGTTCTGTGACTTTGGTGAGGACTTCACTGTGCAGGACC
CCACAGAGGCAGAACCCCTGACAGCTGCCATCCAGCACATCTCCAGGGCTCCCTGGCATTCTCACTCTGAGGA
AAGGGGCCAATACCCACTACTTCCGTGATGGAGACTTGGTGACTTTCTCGGGAATTGAGGGAATGGTTGAGCTCA
ACGACTGTGATCCCCGGTCTATCCAGTGCAGGAGGATGGGTCCCTGGAGATTGGAGACACAACAACCTTCTCTC
GGTACTTGCGTGGTGGGGCTATCACTGAAGTCAAGAGACCCAAGACTGTGAGACATAAGTCCCTGGACACAGCCC
TGCTCCAGCCCCATGTGGTGGCCAGAGCTCCAGGAAGTTCACCATGCCCCTGCTGCATCAGGCCTTCTGTG
CACTGCACAAGTTCAGCACCTCCATGGCCGGCCACCCAGCCCTGGGATCCTGTTGATGCAGAGACTGTGGTGG
GCCTGGCCCGGGACCTGGAACCACTGAAGCGGACAGAGGAAGAGCCACTGGAAGAGCCACTGGATGAGGCCCTAG
TGCGGACAGTCGCCCTAAGCAGTGCAAGGTGTCTTGAGCCTATGGTGGCATGCTGGGTGAGTGTGCCCAGGAA
GTGCTGAAGGCAATCTCCAGAAGTTCATGCCTCTGGACCAGTGGCTTTACTTTGATGCCCTCGATTGTCTTCCGG
AAGATGGGGAGCTCCTTCCAGTCTTGAGGACTGTGCCCTGAGAGGCAGCCGCTATGATGGGCAAATTGCAGTGT
TTGGGGCTGGTTTTTTCAGGAGAACTGAGACGCCAGCACTACCTCCTGGTGGGCGCTGGTGCCATTGGTTGTGAGC
TGCTCAAAGTCTTTGCCCTAGTGGGACTGGGGGCCGGGAACAGCGGGGCTTGACTGTTGTTGACATGGACCACA
TAGAGCGCTCCAATCTCAGCCGTGAGTTCTCTTCAGGTCCAGGACGTTGGTAGACCCAAGGCAGAGGTGGCTG
CAGCAGCTGCCCCGGGGCCTGAACCCAGACTTACAGGTGATCCCGCTCACCTACCCACTGGATCCCAACACAGAGC
ACATCTATGGGGATAACTTTTTCTCCCGTGTGGATGGTGTGGCTGCTGCCCTGGACAGTTTCCAGGCCCCGGCGCT
ATGTGGCTGCTCGTTGCACCCACTATCTGAAGCCACTGCTGGAGGCAGGCACATCGGGCACCTGGGGCAGTGCTA
CAGTATTCTATGCCACATGTGACTGAGGCCTACAGAGCCCCCTGCCTCAGCTGCAGCTTCTGAGGATGCCCCCTACC
CTGTCTGTACCGTGCAGTACTTCCCTAGCACAGCCGAGCACACCCTGCAGTGGGGCCGGCATGAGTTTGAAGAAC
TCTTCCGACTGTCTGCAGAGACCATCAACCACCACCAACAGGCACACACCTCCCTGGCAGACATGGATGAGCCAC
AGACACTCACCTTACTGAAGCCAGTGTCTGGGGTCTGAGAGTGCCTCCACAGAAGTGGCAAGACTGTGTGGCGT
GGGCTCTTGGCCACTGGAACCTCTGCTTTTATTATGGCATCAAACAGCTGCTGAGGCACCTTCCACCTAATAAAG
TGCTTGAGGATGGAACCTCCCTTCTGGTCAAGTCCCAAACAGTGTCCCCAGCCCTTGAGGTTTGACACCAACCAAG
ACACACACCTCCTCTACGTACTGGCAGCTGCCAACCTGTATGCCCAGATGCATGGGCTGCCTGGCTCACAGGACT
GGACTGCACTCAGGGAGCTGCTGAAGCTGCTGCCACAGCCTGACCCCAACAGATGGCCCCCATCTTTGCTAGTA
ATCTAGAGCTGGCTTCGGCTTCTGCTGAGTTTGGCCCTGAGCAGCAGAAGGAAGTGAACAAAGCCCTGGAAGTCT
GGAGTGTGGGCCCTCCCCCTGAAGCCTCTGATGTTTGAGAAGGATGATGACAGCAACTTCCATGTGGACTTTGTGG
TAGCGGCAGCTAGCCTGAGATGTCAGAACTACGGGATTCCACCGGTCAACCGTGCCAGAGCAAGCGAATTGTGG
GCCAGATTATCCAGCCATTGCCACCCTACAGCAGCTGTGGCAGGCCTGTTGGGCTGGAGCTGTATAAGGTGG
TGAGTGGGCCACGGCCTCGTAGTGCCCTTTGCCACAGCTACCTACATCTGGCTGAAAACCTACCTCATCCGCTATA
TGCCCTTTTGGCCAGCCATCCAGACGTTCCATCACTGAAGTGGACCTCTTGGGACCGTCTGAAGGTACCAGCTG
GGCAGCCTGAGAGGACCCTGGAGTCGCTGCTGGCTCATCTTCAGGAGCAGCACGGGTTGAGGGTGAAGGATCCTGC
TGCACGGCTCAGCCCTGCTCTATGCGGCCGGATGGTCACCTGAAAAGCAGGCCAGCAGCTGCCCTCAGGGTGA
CAGAACTGGTTCAGCAGCTGACAGGCCAGGCACCTGCTCCTGGGCAGCGGGTGTGGTGTAGAGCTGAGCTGTG
AGGGTGACGACGAGGACACTGCCTTCCACCTCTGCACTATGAGCTGTGACAAGGCAGCCACCTGTACCTAGC
TCAATGGAGCCCCGGATCCCAAGCCCTGCATTGTAAGCCACAGTAGGCACTCAATAATTGCTTGTAAAGGAAG
G

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FIGURE 36

MDALDASKLLDEELYSRQLYVLGSPAMQRIQGARVLVSGLQGLGAEVAKNLVLMGVGSLTLHDPHPTCWSDLAAQ
ILLSEQDLERSRAEASQELLAQLNRAVQVVVHTGDITEDLLLDQVVLTAAKLEEQLKVGTLCHKHGVCFLAAD
TRGLVGQLFCDFGEDFTVQDPTEAEPLTAAIQHISQSGSPGILTLRKGANTHYFRDGLVTFSGIEGMVELNDCDP
FSIHVREDGSLEIGDTTTFSTRYLGGAI TEVKRPKTVRHKSLDTALLQPHVVAQSSQEVHHAHCLHQAF CALHKF
GRPPQPWDPVDAETVVGLARDLEPLKRTEEEPLEEPLDEALVRTVALSSARCLEPMVACWVSSCPGSAEGN
PLDQWLYFDALDCLPEDGELLSPEDCALRGSRYDGGI AVFGAGFQEKLRQHYLLVGAGAIGCELLKVF
GAGNSGGLTVVDMDHIERSNLSRQFLFRSQDVGRPKAEVAAAAARGLNPDLQVIPLTYPLDPTTEHIYGD
MFSRVDGVAAALDSFQARRYVAARCTHYLKPLLEAGTSGTWGSATVFMPhVTEAYRAPASAAASEDAPYPVCTV
STAHTLQWARHEFEELFRLSAETINHHQQAHTSLADMDEPQTLTLLKPVLGVLVRPQNWDQCVAWALGH
FHYGIKQLLRHFPPNKVLEDGTPFWSGPKQCPQPLEFDTNQDTHLLYVLAAANLYAQMHGLPGSQDWTALR
LPQDPQOMAPIFASNLELASASAEFGPEQQKELNKALEVWSVGPPLKPLMFEKDDDSNFHVDFVVAAS
MYGIPPVNRAQSKRIVGQIIPAIATTTAAVAGLLGLELYKVVSGPRPRSAFRHSYLHLAENYLIRYMPFAP
IFHHLKWTSWDRKVPAGQPERTLESLLAHLQEQHGLRVRILLHGSALLYAAGWSPEKQAQHLPLRVTELVO
GQAPAPGQRVLVLELSCEGDDDEDTAFPPLHYEL

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FIGURE 37

GACAGCCACGAAGATCCTACCAAAATGAAGCGCTTCCTCTTCCTCCTACTCACCATCAGCCTCCTGGTTATGGTA
CAGATACAAACTGGACTCTCAGGACAAAACGACACCAGCCAAACCAGCAGCCCCTCAGCATCCAGCAGCATGAGC
GGAGGCATTTTCCTTTTCTTCGTGGCCAATGCCATAATCCACCTCTTCTGCTTCAGTTGAGGTGACACGTCTCAG
CCTTAGCCCTGTGCCCCCTGAAACAGCTGCCACCATCACTCGCAAGAGAATCCCCTCCATCTTTGGGAGGGGTG
ATGCCAGACATCACCAGGTTGTAGAAGTTGACAGGCAGTGCCATGGGGGCAACAGCCAAAATAGGGGGGTAAATGA
TGTAGGGGCCAAGCAGTGCCCAGCTGGGGGAGAATAAAGTTACCCTTGTACTGCA

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FIGURE 38

MKRFLFLLLTISLLVMVQIQTGLSGQNDTSQTSSPSASSMSGGIFLFFVANAI IHLFCFS

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FIGURE 39

TATATTGGCAGTTATTGAGGGTAAAGCAATATATTGTAACAGAATGTATAAATATTTTTGATAAAACAGTCTATA
TTTTATTAAAAAATGAATTATAACCCATTTTCAGTTTTGCCTGCATCATAAGAGTGAGCACTCCATTGCTTTCTT
TCCTGGCCACACTGCTACAATCCAGCACTAACTATCCATGTCCAGGGTAAGGATCGAGATCGAGAAGCCCACACT
GCCAGTGAAAAAGCTACGTCTTTACTGCATAAATTAGAGGAAGCAATTCGGAACAACGGAACTTCAAACCTATA
AATACTGAATTATCGAACACTTGCCAGGCACTTCAGCAGAAGACAAGGAACTGAAGAAGCTTTTTAGATGAGGA
ATTTCTCACTATGATTCCCTGTCTGCGCAGATGCAATTCAACAACCTCTTCAAGAAAAATTGAAGCAGTGTTG
CCACAACTATATGGTGGTCAAGAAGCAAGAATACATCAGACACCCCTGACCTTGAAACATACGTGCTGGTACAC
ACCTCTGCTGGATGCTTATCTCTGGATAGTTTTACAGCAGTTCCAACCTGGAATCAACACCTTTCTCAGGTGT
AGCCAAACCAATCCACACTCTGTGTGAAAGGCCACATATGGAGAAGTAAAGGATGGTGCTTTGGATGTAAAAAG
ACAACACAAGTGCCAGGCCCAAGTGGCCCCAGCCCAGGAACGAATCTCTCAGGCTGCATCAGGATGAATGA
TGACCAAGTATGGAAGAGAATGGTGTTGAACGCGTGTGTCCTGAGAGCCTGCTGCAGTCCAGGGGATATTCTCT
ACTACCATTACCCAGACACACTTCATCGACAGACGGTACTATAACTTCAAGTGATCCTGGATTAGAAATTTCTGAA
TATGGCTTCTTGTGACCTTGACAGAACTCGCTCTGTAAGAAAGAGGAGGATACAAGATCAGCTTCTCCCACGAT
AGAGGCCCAAGGCACAAGTCCAGCTCATGATAATATTGCATTCCAAGACTCTACGAGTAAGGATAAAACCATATT
AAATCTGGAAGCCAAAGAGGAACCAGAAACAATAGAAGAACATAAAAAAGAACATGCTTCAGGAGACTCTGTGGT
TTCCCTCTTCTGTAACTGTGAAATCGGTTAACGTTAGACAAAGTGAGAACACTTCTGCTAATGAGAAGGA
GGTGGAGGCAGAATTTCTCAGATTATCTTTGGGATTTAAGTGTGACTGGTTTACCTTGGAGAAGAGAGTGAAGCT
TGAAGAGAGGTCCCGTGACTGGGCAGAAGAAAATTTGAAGAAAGAAATCACTAACTCTTTAAACTATTAGAGTC
TTTAACACCTCTGTGTGAAGATGACAACAGGCACAGGAAATCATTAGAAGCTGGAGAAGAGTATAAAGTTTCT
TAGCCAGTGTGCAGCACGAGTGGCCAGTAGGGCTGAGATGTTGGGAGCCATCAATCAGGAAAGCCGGGTTAGTAA
AGCAGTTGAAGTGATGATTAGCACGTAGAAAATTTGAAGAGGATGTATGCCAAAGAGCACGCTGAATTAGAAGA
ACTGAAACAGGTTCTTCTGCAGAATGAAAGGTCTTTCAATCCTCTTGAAGATGATGATGACTGCCAAATTAAAA
ACGTTTCAGCTTCTCTAACTCCAAGCCATCTTCTCTACGAAGAGTGACTATTGCCTCTTTACCCAGAAATATTGG
AAATGCAGGAATGGTGGCTGGGATGGAAAATAATGATCGATTTCAGTAGAAGGTCAAGCAGTTGGCGTATTTTGGG
GTCAAAGCAGAGTGAACACCGTCCCTCATTACCTCGATTTATTAGCACCTATTCTGGGCAGATGCTGAAGAAGA
AAAATGTGAATAAACTAAAGATGACTCAGAGCCATCTGGAGAAGAAACAGTAGAAAGGACAAGGAAGCCAAG
TCTTTCTGAAAAGAAAAATAATCCATCAAAGTGGGATGTCTCTTCAGTTTATGACACAATAGCTTCTGGGCAAC
AAATCTCAAGTCTCCATCAGAAAGGCTAATAAGGCCCTCTGGCTCTCTATTGCATTCAATTGTAAGTTTGCAGC
TTTGATGAGCTTCTCAGAGGCCAATTATTCCAGAAGTCTGTGGATGCCGCTCCACACAGCAAGAGGACTCATG
GACGTCTCTAGAACATATCTTGTGGCCATTACCAGACTCCGACACAATGGGCCACCACAGTGTGACAGCAGGA
CATCCTAATATATGGATCTTGATTTTTAAGTTTCAGTATCTGAACTTCGTAAATTAGTAACTTTTAGCTGGGAAA
GTATAGCATGAAACCAGAGGTTCTCAGAATGACCGTAAGATAGCTTACATTTCTCTTTTGCCTTTATCTCCCC
AACTAAAATACAATGGG

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FIGURE 40

MESTPFSGVANQIHTLCERPTYGEVKDGDALDVKRQHKCPGPTSGPSPGTNLSGCIRMNDPDSMEENGVERVCPES
LLQSRGYSSLPLPRHTSSTDGTITSSDPGLEILNMASCDLDRNSLCKKEEDTRSASPTIEAQGTSPAHDNIAFQD
STSKDKTILNLEAKEEPETIEEHKKEHASGDSVVSPLPVTTVKSVNVRQSENTSANEKEVEAEFLRLSLGFKCDW
FTLEKRVKLEERSRDWAEENLKKEITNSLKLLESITPLCEDDNQAQEI IKKLEKSIKFLSQCAARVASRAEMLGA
INQESRVSKAVEVMIQHVENLKRMYPKEHAELEELQVLLQNERSFNPLEDDDDCQIKKRSASLNSKPSSLRRVT
IASLPRNIGNAGMVAGMENNDRFRRSSSWRILGSKQSEHRPSLPRFISTYSWADAEKCEKTKDDSEPSGEE
TVERTRKPSLSEKKNNPSKWDVSSVYDTIASWATNLKSSIRKANKALWLSIAFIVLFAALMSFLTGQLFQKSVDA
APTQQEDSWTSLEHILWPFTRLRHNGPPP

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FIGURE 41

ACGCGTCCGCTTCGGAATGAGAGACTCAACCATAATAGAAAGAATGGAGAACTATTAACCACCATTCTTCAGTGG
GCTGTGATTTTCAGAGGGGAATACTAAGAAATGGTTTTCCATACTGGAACCCAAAGGTAAAGACACTCAAGGACA
GACATTTTGGCAGAGCATAGATGAAAATGGCAAGTTCCTGGCTTTCCTTCTGCTCAACTTTTCATGTCTCCCTC
TTCTTGGTCCAGCTGCTCACTCCTTGCTCAGCTCAGTTTTCTGTGCTTGGACCCTCTGGGCCCATCTGGCCATG
GTGGGTGAAGACGCTGATCTGCCCTGTCACCTGTTCCCGACCATGAGTGCAGAGACCATGGAGCTGAGGTGGGTG
AGTTCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAAGGAAGTGAAGACAGGCAGAGTGCACCATAT
CGAGGGAGAACTTCGATTCTGCGGGATGGCATCACTGCAGGGAAGGCTGCTCTCCGAATACACAACGTCACAGCC
TCTGACAGTGGAAAGTACTTGTGTTATTTCGAAGATGGTGACTTCTACGAAAAAGCCCTGGTGGAGCTGAAGGTT
GCAGCATTGGGTTCTGATCTTCACATTGAAGTGAAGGGTTATGAGGATGGAGGGATCCATCTGGAGTGCAGGTCC
ACTGGCTGGTACCCCCAACCCCAAATAAAGTGGAGCGACACCAAGGGAGAGAACATCCCGGCTGTGGAAGCACCT
GTGGTTGCAGATGGAGTGGGCCCTGTATGCAGTAGCAGCATCTGTGATCATGAGAGGCAGCTCTGGTGGGGGTGTA
TCCTGCATCATCAGAAATTCCTCCTCGGCCCTGGAAAAGACAGCCAGCATATCCATCGCAGACCCCTTCTTCAGG
AGCGCCAGCCCTGGATCGCGGCCCTGGCAGGGACCCTGCCTATCTCGTTGCTGCTTCTCGCAGGAGCCAGTTAC
TTCTTGTGGAGACAACAGAAGGAAAAAATTGCTCTGTCCAGGGAGACAGAAAGAGAGCGAGAGATGAAAGAAATG
GGATACGCTGCAACAGAGCAAGAAATAAGCCTAAGAGAGAAGCTCCAGGAGGAACTCAAGTGGAGGAAAATCCAG
TACATGGCTCGTGGAGAGAAGTCTTTGGCCTATCATGAATGGAAAATGGCCCTCTTCAAACCTGCGGATGTGATT
CTGGATCCAGACACGGCAAACGCCATCCTCCTTGTCTTCTGAGGACCAGAGGAGTGTGCAGCGTGTGAAGAGCCG
CGGGATCTGCCAGACAACCCTGAGAGATTTGAATGGCGTTACTGTGTCTTGGCTGTGAAAACCTTCACATCAGGG
AGACATTACTGGGAGGTGGAAGTGGGGGACAGAAAAGAGTGGCATAATTGGGGTATGTAGTAAGAACGTGGAGAGG
AAAAAAGGTTGGGTCAAATGACACCGGAGAACGGATACTGGACTATGGGCCTGACTGATGGGAATAAGTATCGG
GCTCTCACTGAGCCCAGAACCAACCTGAAACTTCCTGAGCCTCCTAGGAAAGTGGGGATCTTCTCGGACTATGAG
ACTGGAGAGATCTCGTTCTATAATGCCACAGATGGATCTCATATCTACACCTTTCGCGACGCCTCTTTCTCTGAG
CCTCTATATCCTGTTTTTGAATTTTGACCTTGGAGCCCCTGACCCTTTCGCAATACCAAAGAAGTA
GAGAGTTCCTCCGATCCTGACCTAGTGCCTGATCATTCCCTGGAGACACCACTGACCCCGGGCTTAGCTAATGAA
AGTGGGGAGCCTCAGGCTGAAGTAACATCTCTGCTTCTCCCTGCCACCCTGGAGCTGAGGTCTCCCTTCTGCA
ACAACCAATCAGAACCATAAGCTACAGGCACGCACTGAAGCACTTTACTGATATTTCATTTCATTATTCATATGA
CAGTTGTTTTGAGTTTCGTACCACCTTATTGTCCCCTTATACAGATAAGGAAACTGGGGTGCAGAAAGGTGAATT
AACTTTACAAAGTAGACATGACAAGTGAACAGCAGAGCTGGGATCTAAACAGCAATAACTAACATTAACAGAGAA
TTTAAATGTTCTTAGTGCTGTGTTATAAGCTTTGGTGGATGTCACTCCTTTAATCCTCACAACACCCTGTGCGG
TAGTCATATTTTGCAAGTATGGAAGCTGAGGCAGGGCAACATGAAGTAACTTACATAATTATACAGTAATTTGT
GCAGTTGGGAGATGTTTACGCTTAGTCCCTGGCTAATTGCCTGTTCTTTTCCAGCCTGATTTTTTTTCCCACAGG
AAGAGCCACATGTAGCCCTGAGGTTTCTTCCAGGACAGCTGCAGGGTAGAGATCATTTTAAGTGTCTGTGGA
GTTGACATCCCTATTGACTCTTTCAGCTGATATCAGAGACTTAGACCCAGCACTCCTTGGATTAGCTCTGCAG
AGTGTCTTGGTTGAGAGAATAACCTCATAGTACCAACATGACATGTGACTTGGAAAGAGACTAGAGGCCACACTT
GATAAATCATGGGGCACAGATATGTTCCCAACCAACAAATGTGATAAGTGATTGTGCAGCCAGAGCCAGCCTTCC
TTCAATCAAGGTTTCCAGGCAGAGCAAATACCCTAGAGATTCTCTGTGATATAGGAAATTTGGATCAAGGAAGCT
AAAAGAATTACAGGGATGTTTTTAATCCCACTATGGACTCAGTCTCCTGGAAATAGGTCTGTCCACTCCTGGTCA
TTGGTGGATGTTAAACCCATATTCCTTTCAACTGCTGCCTGCTAGGGAAAAGTCTCCTCATTATCATCACTATT
ATTGCTCACCCTGTATCCCTCTACTTGGCAAGTGGTTGTCAAGTTCTAGTTGTTCAATAAATGTGTTAATAAT
GAAAAA

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FIGURE 42

MMASSLAFLLLNFHVSFLVQLLTPCSAQFSVLGPSPILAMVGEDADLPCHLFPTMSAETMELRWVSSSLRQV
VNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYLCYFQDGFYEKALVELKVAALGSDL
HIEVKGYEDGGIHLECRSTGWYPQPQIKWSDTKGENIPAVEAPVVADGVGLYAVAASVIMRGSSGGGVSCIIRNS
IJGLEKTASISIA DPFFRSAQPWIAALAGTLPISLLLLAGASYFLWRQQKEKIALSRETEREREMKEMGYAATEQ
REKLQEELKWRKIQYMARGEKSLAYHEWKMA LF KPADVILDPDTANA ILLVSEDQRSVQRAEEPRDL PDNP
RYCVLGCENFTSGRHYWEVEVGDRKEWHIGVCSKNVERKKGWVKMTPENGYWTMGLTDGNKYRALTEPRT
PEPPRKVGIFLDYETGEISFY NATDGSHIYTFPHASFSEPLYPVFRILTLEPTALTICPIPKVESSPDPD
LPPHLSLETPLTPGLANESGEPQAEVTSLLLPAHPGAEVSPSATTNQNHLQARTEALY

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FIGURE 43A

CCGGGCTGCGCGGCGAGGCTGAGCCGGGCCCCGGGCGCCGGGGCCGGGGGCGGCTGGCGCGGGCAGGAAGCGCCTC
GCGGACCCGGGCCCCGCCCCCGCCTCCCGCCGCTCCGGGCTCCCGGCTCCCGGCCGCGCTCGCCCCATGCACT
CGCCGCGCCGCGCAGCCCCGCGCACGCCCGGATGGCTCCTCGCGCCGCGGGCGGCGCACCCCTTAGCGCCCCGGGCC
GCCGCGCCAGCCCCCGCCGTTCAGACGCCCGCGGCTGCCCGGTGCCGCTGCTGTTGCTGCTGCTCCTGGGG
GCGGCGCGGGGCGGCGCCCTGGAGATCCAGCGTCGGTTCCCCCTGCCCCACGCCACCAACAACTTCGCCCTGGAC
GGCGCGGCGGGGACCGTGTACCTGGCGGCCGTCAACCGCCTCTATCAGCTGTGGGCGCCAACCTGAGCCTGGAG
GCCGAGGCGGCCGTGGGCCCCGTGCCGACAGCCCGCTGTGTACGCTCCGAGCTGCCGAGGCCTCGTGCGAG
CACCCGCGGCGCCTCACGGACAACATAACAAGATCCTGCAGCTGGACCCCGGCCAGGGCCTGGTAGTCGTGTGC
GGGTCCATCTACCAGGGCTTCTGCCAGCTGCGGCGCCGGGGTAACATCTCGGCCGTGGCCGTGCGCTTCCCGCCC
GCCGCGCCGCCCCGCGAGCCCGTCACGGTGTTCGCCAGCATGCTGAACGTGGCGGCCAACACCCGAACGCGTCC
ACCGTGGGGCTAGTTCTGCTTCCCGCGCGGGGCGCGGGGGGAGCCGCTGCTCGTGGGCGCCACGTACACCGGT
TACGGCAGCTCCTTCTTCCCGCGCAACCGCAGCCTGGAGGACCACCGCTTCGAGAACACGCCCCGAGATCGCCATC
CGCTCCCTGGACACGCGCGGCGACCTGGCCAAGCTCTTACCTTCGACCTCAACCCCTCCGACGACAACATCCTC
AAGATCAAGCAGGGCGCCAAGGAGCAGCACAAGCTGGGCTTCGTGAGCGCCTTCTGACCCGTCGGACCCGCGG
CCGGGTGCACAGTCTTACGCTACCTGGCGCTCAACAGCGAGGCGCGCGCGGGGCGACAAGGAGAGCCAGGCGCGG
AGCCTGCTGGCGCGCATCTGCCTGCCCCACGGCGCCGGCGGGCGACGCCAAGAAGCTCACCGAGTCTTACATCCAG
TTGGGCTTGCACTGCGCGGGCGGCGCGGGCCGCGGCGACCTCTACAGCCGCTGGTGTGCGTCTTCCAGCCCGG
GAGCGGCTCTTTGCTGTCTTCGAGCGGCCCCAGGGGTCCCCCGCGCCCCGCGCTGCTCCGCGCCGACTCTGCGCC
TTCCGCTTCGCCGACGTGCGAGCCGCCATCCGAGCTGCGCGCACCGCCTGCTTCGTGGAACGGCGCGCCGACGTG
GTGGCGGTGCTCGACAGCGTGGTGCAGGGCACGGGACCGGCCTGCGAGCGCAAGCTCAACATCCAGCTCCAGCCA
GAGCAGCTGGACTGTGGAGCTGCTACCTGCAGCACCCGCTGTCCATCTGCAGCCCTGAAGGCCACGCCCGTG
TTCCGCGCCCCGGGCCTCACCTCCGTGGCCGTGGCCAGCGTCAACAACATAACAGCGGTCTTCTGGGCACGGTC
AACGGGAGGCTTCTCAAGATCAACCTGAACGAGAGCATGCAGGTGGTGAGCAGGCGGGTGGTGAAGTGTGGCCTAT
GGGGAGCCCGTGACCATGTATGCAGTTTGACCCAGCAGACTCCGTTTACCTTTACCTGATGACGTCCCACCAG
ATGGCCAGGGTGAAGGTGCGCGCCTGCAACGTGCACTCCACCTGTGGGGACTGCGTGGGTGCGGCGGACGCTAC
TGCGGCTGGTGTGCCCTGGAGACGCGGTGCACCTTGACGAGGACTGCACCAATTCCAGCCAGCAGCATTTCTGG
ACCAAGTGCCAGCGAGGGCCCCAGCCGCTGTCTGCCATGACCGTCTGCTTCCGAGATCGATGTGCGCCAGGAG
TACCCAGGCATGATCCTGCAGATCTCGGGCAGCCTGCCCAGCCTCAGTGGCATGGAGATGGCCTGTGACTATGGG
AACAACATCCGCACTGTGGCTCGGGTCCCAGGCCCTGCCCTTTGGTCACCAGATTGCCTACTGCAACCTCCTGCCG
AGGGACCAGTTTCCGCCCTTCCCCCCCCAACCCAGGACCACGTGACTGTTGAGATGTCTGTGAGGGTCAATGGGCGG
AACATCGTCAAGGCCAATTTACCATCTACGACTGCAGCCGCACTGCACAAGTGTACCCCCACACAGCCTGTACC
AGCTGCCTGTGCGCACAGTGGCCCTGTTTCTGGTGCAGCCAGCAGCACTCCTGTGTTTTCAACCAGTCTCGGTGC
GAGGCCTACCAAACCCACGAGCCCTCAGGACTGCCCCCGGACCCTGCTCTACCCCTGGCACCCGTGCCTACG
GGTGGCTCCCAGAACATCCTGGTGCCTCTGGCCAACACTGCCCTTTTTCCAGGGTGCAGCCCTGGAGTGTAGTTTT
GGGCTGGAGGAGATCTTCGAGGCTGTGTGGGTGAATGAGTCTGTTGTACGCTGTGACCAGGTGGTGTGTCACACG
ACCCGGAAGAGCCAGGTGTTCCCGCTCAGCCTCCAACATAAGGGGCGGCCAGCCCGATTCTGGACAGCCCTGAG
CCCATGACAGTCATGGTCTATAACTGTGCCATGGGACGCCCCGACTGTTCCAGTGCCTGGGCGCGGAAGACCTG
GGTCACCTGTGCATGTGGAGTGATGGCTGCCGCTGCGGGGCGCTGCGAGCCATGGCTGGCACCTGCCCCGCC
CCCGAGATCCGCGCGATTGAGCCCTGAGTGGCCCGTTGGACGGTGGGACCCTGCTGACCATCCGAGGAAGGAAC
CTGGGCGGGCGGCTCAGTGACGTGGCCACGGCGTGTGGATTGGTGGTGTGGCCTGTGAGCCACTGCCTGACAGA
TACACGGTGTGCGAGGAGATCGTGTGTGTACAGGGCCAGCCCCAGGACCACTCTCAGGTGTGGTGACCGTGAAC
GCCTCTAAGGAGGGCAAGTCCCGGGACCGCTTCTCTACGTGCTGCCCTGGTCCACTCCCTGGAGCCTACCATG
GGCCCCAAGGCCGGGGGACCCAGGATCACCATCCATGGGAATGACCTCCATGTAGGCTCCGAGCTCCAGGTCTTG
GTGAACGACACAGACCCCTGCACGGAGCTGATGCGCACAGATACCAGCATCGCCTGCACCATGCCTGAGGGGGCC
CTGCCGGCTCCGGTGCTGTGTGTGTGCGCTTCGAGCGTGGGGGCTGCGTGCACGGCAACCTCACCTTCTGGTAC
ATGAGAACCCGGTCATCACGGCCATCAGTCCCCGCGCAGCCCTGTGAGTGGCGGCAGGACCATCACAGTGGCT
GGTGAGCGTTTTCCACATGGTGCAGAATGTGTCCATGGCCGTCCACCACATTGGCCGGGAGCCACGCTCTGCAAG
GTTCTCAACTCCACCCTCATCACCTGCCCGTCCCCGGGGCCCTGAGCAACGCATCAGCGCCAGTGGACTTCTTC

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FIGURE 43B

ATCAATGGGCGGGCCTACGCAGACGAGGTGGCTGTGGCTGAGGAGCTACTGGACCCCCGAGGAGGCACAGCGGGGC
AGCAGGTTCCGCCTGGACTACCTCCCCAACCCACAGTTCTCTACGGCCAAGAGGGAGAAGTGGATCAAGCACCAC
CCCGGGGAGCCTCTCACCTCGTTATCCACAAGGAGCAGGACAGCCTGGGGCTCCAGAGTCACGAGTACCGGGTC
AAGATAGGCCAAGTAAGCTGCGACATCCAGATTGTCTCTGACAGAATCATCCACTGCTCGGTCAACGAGTCCCTG
GGCGCGGCCGTGGGGCAGCTGCCCCATCACAATCCAGGTAGGGAACCTTCAACCAGACCATCGCCACACTGCAGCTG
GGGGGTAGCGAGACGGCCATCATCGTGTCCATCGTCATCTGCAGCGTCTGCTGCTGCTCTCCGTGGTGGCCCTG
TTCGTCTTCTGTACCAAGAGCCGACGTGCTGAGCGTTACTGGCAGAAGACGCTGCTGCAGATGGAGGAGATGGAA
TCTCAGATCCGAGAGGAAATCCGCAAAGGCTTCGCTGAGCTGCAGACAGACATGACAGATCTCACCAAGGAGCTG
AACCGCAGCCAGGGCATCCCCCTTCTGGAGTATAAGCACTTCGTGACCCGCACCTTCTTCCCCAAGTGTTCCCTCC
CTTTATGAAGAGCGTTACGTGCTGCCCTCCCAGACCCTCAACTCCCAGGGCAGCTCCCAGGCACAGGAAACCCAC
CCACTGCTGGGAGAGTGGAAGATTCTTGAGAGCTGCCGGCCCAACATGGAAGAGGGGAATTAGCTTGTTCTCTCTCA
CTACTCAACAACAAGCACTTCCTCATCGTCTTTGTCCACGCGCTGGAGCAGCAGAAAGGACTTTGCGGTGCGCGAC
AGGTGCAGCCTGGCCTCGCTGCTGACCATCGCGCTGCACGGCAAGCTGGAGTACTACACCAGCATCATGAAGGAG
CTGCTGGTGGACCTCATTGACGCTCGGCCGCCAAGAACCCCAAGCTCATGCTGCGGCGCACAGAGTCTGTGGTG
GAGAAGATGCTCACCAACTGGATGTCCATCTGCATGTACAGCTGTCTGCGGGAGACGGTGGGGGAGCCATTCTTC
CTGCTGCTGTGTGCCATCAAGCAGCAAATCAACAAGGGCTCCATCGACGCCATCACAGGCAAGGCCCGCTACACA
CTCAATGAGGAGTGGCTGCTGCGGGAGAACATCGAGGCCAAGCCCCGGAACCTGAACGTGTCTTCCAGGGCTGT
GGCATGGACTCGCTGAGCGTGCGGGCCATGGACACCGACACGCTGACACAGGTCAAGGAGAAGATCCTGGAGGCC
TTCTGCAAGAATGTGCCCTACTCCCAGTGGCCGCGTGACAGAGGACGTGACCTTGAGTGGTTGCGCTCCAGCACA
CAGAGCTACATCCTTCGGGACCTGGACGACACCTCAGTGGTGGAAAGACGGCCGCAAGAAGCTTAACACGCTGGCC
CATTACAAGATCCCTGAAGGTGCCTCCCTGGCCATGAGTCTCATAGACAAGAAGGACAACACACTGGGCCGAGTG
AAAGACTTGACACAGAGAAGTATTTCCATTTGGTGTGCCTACGGACGAGCTGGCGGAGCCCAAGAAGTCTCAC
CGGCAGAGCCATCGCAAGAAGGTGCTCCCGGAAATCTACCTGACCCGCTGCTCTCCACCAAGGGCACGTTGCAG
AAGTTTCTGGATGACCTGTTCAAGGCCATTCTGAGTATCCGTGAAGACAAGCCCCCACTGGCTGTCAAGTACTTT
TTCGACTTCTGGAGGAGCAGGCTGAGAAGAGGGGAATCTCCGACCCCGACACCCTACACATCTGGAAGACCAAC
AGCCTTCTCTCCGGTTCTGGGTGAACATCTGAAGAACCCCCAGTTTGTCTTTGACATCGACAAGACAGACCAC
ATCGACGCTGCCTTTTCACTCATCGCGCAGGCCTTCATCGACGCTGCTCCATCTCTGACCTGCAGCTGGGCAAG
GATTGCGCAACCAACAAGCTCCTCTACGCCAAGGAGATTCTGAGTACCGGAAGATCGTGCAGCGCTACTACAAG
CAGATCCAGGACATGACGCCGCTCAGCGAGCAAGAGATGAATGCCCATCTGGCCGAGGAGTCGAGGAAATACCAG
AATGAGTTCAACACCAATGTGGCCATGGCAGAGATTTATAAGTACGCCAAGAGGTATCGGCCGAGATCATGGCC
GCGCTGGAGGCCAACCCACGGCCCCGAGGACACAACCTGCAGCACAAGTTTGAGCAGGTGGTGGCTTTGATGGAG
GACAACATCTACGAGTGCTACAGTGAGGCCTGAGACACATGGAGAGTTGGTCAGGCTGCTGCTGGGAGAAATGGA
CGCCCACTGGGCCTCAACTTGATCTTCTACCCCGTGCCTGTGACTCAGACTGGGAAATACTGAGCAGAGACGGCT
GGGGCGGGGGCAGGAGGAGGGGCTGCTCTCTGAGACAGGGGCGCCCCCGCCTTGACCCCTGGGCACCTCCATCCC
CTCCCACCTGTCCCCAGATCAGTCTCTGGGATGGAGGCCAGAGAGCTGGTCAGGCTCCCCCATCTGCCAGCAGC
GCCTGCACTGTGCCCACCCACTTGCTCCACAACGTCCAGTTGGTCTGCTGCCAAGAGCCCCGTGCATCCAGGCG
GCCAAGCACAACTGGGGGAGAGGAGGCCGCCAGCCGAGGCTGCAGCCAGAACTCTACCTCATCCACACTG
GTGCAGGGAGCCCTCCTTGAAGTACCTTTGATTGGTTTCTGCTTCAACTACCAAAATGTTATCTCCACTTCCCC
CTCACCCGTAGAGGATCCTGGCCACAGACAGTTTCAAGTAGTGTGAGATTTTTGTTGCTTGGGCGGCTGTGGTA
GAGTGGGCAGTGCCCCGCGCATGGGGTGCTCTGTGGCTTCTCCAGGAGCAGGGAGGGTGGAGGGGAGGGATGGG
GGGCACAGGAGCTGGGAGCCCCGTCTCCAGGAAAAGGAGAGGGGTTAAGATGCACCGAGGCTGTAGCTGGGCTAC
TTGATCTTGCTGAAAGTGTTTCTAAAGATAGCACCACCTTTTTTTTTTAAAGCTTTTATATATAAAAACGTATC
ATGC

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FIGURE 44

PGCAARLSRARAPGPGAAGAGRKRLADPGPPASRRLRAPGSRPRLAPCTRRAAQPAHARMAPRAAGGAPLSARA
AAASPPPFQTPPRCPVPLLLLLLLGAARAGALEIQRRFPSPTPTNNFALDGAAGTVYLAAVNRLYQLSGANLSLE
AEAAVGVPDPSPLCHAPQLPQASCEHPRRLTDNYNKILQLDPGQGLVVVCGSIYQGFCQLRRRGNISAVAVRFPP
AAPPAEPVTVFPSMLNVAANHPNASTVGLVLPPAAGAGGSRLLVGATYTGYSFFPRNRSLEDHRFENTPEIAI
RSLDTRGDLAKLFTFDLNPSSDDNLIKIKQGAKEQHKLGFVSAFLHPSDPPPGAQSYAYLALNSEARAGDKESQAR
SLLARICLPHGAGGDAKKLTESYIQLGLQCAGGAGRGDLYSRLVSVFPARERLFAVFERPQGSAPAARAAPALCA
FRFADVRAAIRAARTACFVEPAPDVVAVLDSVVQGTGPACERKLNILQPEQLDCGAHLQHPLSILQPLKATPV
FRAPGLTSVAVASVNNYTAVFLGTVNGRLLKINLNESEQVSVRRVTVAYGEPVHHVMQFDPADSVYLYLMTSHQ
MARVKVAACNVHSTCGDCVGAADAYCGWCALETRCTLQQDCTNSSQQHFWTSASEGPSRCPAMTVLPSEIDVRQE
YPGMILQISGSLPSLSGMEACDYGNINRTVARVPGPAFGHQIAYCNLLPRDQFPFPPNPDHVTVEMSVRVNGR
NIVKANFTIYDCSRTAQVYPHTACTSCLSAQWPCFWCSQQHSCVSNQSRCEASPNPTSPQDCPRTLLSPLAPVPT
GGSQNILVPLANTAFFQGAALCESFGLEEIFEAVVWNESSVVRCDQVVLHTTRKSQVFPLSLQLKGRPARFLDSPE
PMTVMVYNCAMGSPDCSQCLGREDLGHLCMWSGDCRLRGPLQPMAGTCPEIRAIEPLSGPLDGGTLLTIRGRN
LGRRLSQVAHGWWIGGVACEPLPDRTYVSEEIVCVTGPAAGPLSGVTVNASKEGKSRDRFSYVLPVHSLEPTM
GPKAGGTRITIHGNDLHVGSSELQVLVNDTDPCTELMRTDTSIACIMPEGALPAPVPVCFERRGCVHGNLTFWY
MQNPVITAISPRRSPVSGGRTITVAGERFHMVQNVSMVHHIGREPTLCKVLNSTLITCPSGALSNASAPVDFE
INGRAYADEVAEELLDPEEAQRGSFRFLDYLPNPQFSTAKREKWKHHHPGEPLTLVIHKEQDSLGLQSHEYRV
KIGQVSCDIQIVSDRIIHCSVNESLGAAGVQLPITIQVGNFNQTIATLQLGGSETAIIVSIVICSVLLLLSVVAL
FVFCTKSRAERYWQKTLQMEEMESQIREEIRKGFAELQTDMDLTKELNRSQGIPFLEYKHVTRTFFPKCSS
LYEERYVLPSQTLNSQSSQAQETHPLLGWKPESCRPNMEEGISLFSLLNNKHFLIVFVHALEQQKDFAVRD
RCSLASLLTIALHGKLEYYSIMKELLVDLIDASAAKNPKMLLRRTESVVEKMLTNWMSICMYSCLETVGEPFF
LLLCAIKQQINKGSIDAITGKARYTLNEEWLLRENIEAKPRNLNVSFQCGMDSLSVRAMDTDLTQVKEKILEA
FCKNVPYSQWPRAEDVDLEWFASSTQSYILRDLDTSVVEDGRKKLNTLAHYKIPEGASLAMSLLDKDNTLGRV
KOLDTEKYFHLVLPDELAEPKSHRQSHRKKVLPEIYLTRLLSTKGTLOKFLDDLKAILSIREDKPPLAVKYF
FDFLEEQAEGKRGISDPDTLHIWKTNSLPLRFVWNILKNPQFVFDIDKTDHIDACLSVIAQAFIDACSISDLQLGK
DSPTNKLLYAKEIPEYRKIVQRYKQIQDMTPLSEQEMNAHLAEESRKYQNEFNTNVAMAEIYKYAKRYRPQIMA
ALEANPTARRTQLQHKFEQVVALMEDNIYECYSEA

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FIGURE 45

CCCCTGCCCCGCCGACAGCGCCGCCGCTGCCCCGCCATGGGTCGACAGAAGGAGCTGGTGTCCCGCTGCGGGGA
GATGCTCCACATCCGCTACCGGCTGCTCCGACAGGCGCTGGCCGAGTGCCTGGGGACCCTCATCCTGGTGATGTT
TGGCTGTGGCTCCGTGGCCCAGGTTGTGCTCAGCCGGGGCACCACGGTGGTTTCCTCACCATCAACCTGGCCTT
TGGCTTTGCTGTCACTCTGGGCATCCTCATCGCTGGCCAGGTCTCTGGGGCCACCTGAACCCTGCCGTGACCTT
TGCCATGTGCTTCCTGGCTCGTGAGCCCTGGATCAAGCTGCCCATCTACACCCTGGCACAGACGCTGGGAGCCTT
CTTGGGTGCTGGAATAGTTTTTGGGCTGTATTATGATGCAATCTGGCACTTCGCCGACAACCAGCTTTTTGTTC
GGGCCCCAATGGCACAGCCGGCATCTTTGCTACCTACCCCTCTGGACACTTGGATATGATCAATGGCTTCTTTGA
CCAGTTCATAGGCACAGCCTCCCTTATCGTGTGTGTGCTGGCCATTGTTGACCCCTACAACAACCCCGTCCCCCG
AGGCCTGGAGGCCTTCACCGTGGGCCTGGTGGTCCCTGGTCAATTGGCACCTCCATGGGCCTCAACTCCGGCTATGC
CGTCAACCCGTGCCGGGACTTTGGCCCCCGCCTTTTTACAGCCCTTGCGGGCTGGGGCTCTGCAGTCTTCACGAC
CGGCCAGCATTGGTGGTGGGTGCCCATCGTGTCCCCACTCCTGGGCTCCATTGCGGGTGTCTTCGTGTACCAGCT
GATGATCGGCTGCCACCTGGAGCAGCCCCCACCCTCCAACGAGGAAGAGAATGTGAAGCTGGCCCATGTGAAGCA
CAAGGAGCAGATCTGAGTGGGCAGGGGCCATCTCCCCACTCCGCTGCCCTGGCCTTGAGCATCCACTGACTGTCC
AAGGGCCACTCCCAAGAAGCCCCCTTCACGATCCACCCTTTCAGGCTAAGGAGCTCCCTATCTACCCCTACCCCA
CGAGACAGCCCCTTCAGGATTTCCACTGGACCTTGCCCAAATAGCACCTTAGGCCACTGCCCCTAAGCTGGGGTG
GAACCGGAATTTGGGTCAATACATCCTTTTGTCTCCCAAGGGAAGAGAATGGGCAGCAGGTATGTGTGTGTGC
ATGTGTGTGCATGTGTGTGCATGTGTGTGCAGGGGTGTGTGTGTGTGGGGGGGTTCCCAGATATTCAGGGCAAG
GGACCAGTCGGAAGGGATTCTGGCTATTGGGGGAGCCCAGAGACAGGGGAAGGCAGCCTGTCCATCTGTGCATAA
GGAGAGGAAAGTTCCAGGGTGTGTATGTTTCAGGGGCTTCACATGGAGGAGCTGCAGATAGATATGTGTTTCTGT
GTATGTGTATGTCTGCCTTTTTTTCTAAGTGGGGGCTTCTACAGGCTTTTGGGAAGTAGGGTGGATGTGGGTAGG
GCTGGGAGGAGGGGGCCACAGCTTAGGTTTGGAGCTCTGGATGTACATACATAAGTAGGAGCAGTGGGACGTGTT
TCTGTCTAATGCAGGCATGAAGGGTGGAGTGAAGTCAGGTCATAAGTTTCATGTTTGCTTTTGTTTTGT
TTTTAATGTATGTAGCAGATGTTACAGTCTTAGGGATCCGGGATGGGAGACCCCACTTTAGAAAGGTCGTCACT
CCTTTAATCCTCTACTCAACAATGTACTCTTTTACTTTTATATTAATAAAAAATAAAATAAATATGTGCCTAAAA
AAAAA

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FIGURE 46

MGRQKELVSRGEMLHIRYRLLRQALAECLGTLILVMFGCGSVAQVVLSRGTHGGFLTINLAFGFAVTLGILIAG
QVSGAHLNPAVTFAMCFLAREPWIKLPITYTLAQT LGAFLGAGIVFGLYYDAIWHFADNQLFVSGPNGTAGIFATY
PSGHLDMINGFFDQFIGTASLIVCVLAIVDPYNNPVPRGLEAFTVGLVVLVIGTSMGFNSGYAVNPARDFGPRLF
TALAGWGS AVFTTGQHWWVP IVSPLLGS IAGVFVYQLMIGCHLEQPPPSNEEENVKLAHVKHKEQI

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FIGURE 47

ACCAACCTCTTCGAGGCACAAGGCACAACAGGCTGCTCTGGGATTCTCTTCAGCCAATCTTCATTGCTCAAGTGT
CTGAAGCAGCCATGGCAGAAGTACCTGAGCTCGCCAGTGAAATGATGGCTTATTACAGTGGCAATGAGGATGACT
TGTTCCTTTGAAGCTGATGGCCCTAAACAGATGAAGTGCTCCTTCCAGGACCTGGACCTCTGCCCTCTGGATGGCG
GCATCCAGCTACGAATCTCCGACCACCCTACAGCAAGGGCTTCAGGCAGGCCGCGTCAGTTGTTGTGGCCATGG
GCTGAGGAAGATGCTGGTTCCTTGCCACAGACCTTCCAGGAGAATGACCTGAGCACCTTCTTCCCTTCA
TGAAGAAGAACCTATCTTCTTCGACACATGGGATAACGAGGCTTATGTGCACGATGCACCTGTACGATCAC
CTGTCACGCTCCGGGACTCACAGCAAAAAAGCTTGGTGATGTCTGGTCCATATGAACTGAAAGCTCTCCACC
CAGGGACAGGATATGGAGCAACAAGTGGTGTCTCCATGTCTTTGTACAAGGAGAAGAAAGTAATGACAAAA
TGTGGCCTTGGGCCTCAAGGAAAAGAATCTGTACCTGTCTGCGTGTGAAAGATGATAAGCCCACTCTAC
GGAGAGTGTAGATCCCAAAAATTACCCAAAGAAGAAGATGGAAAAGCGATTGTCTTCAACAAGATAGAAA
TACAAGCTGGAATTTGAGTCTGCCAGTTCCCAACTGGTACATCAGCACCTCTCAAGCAGAAAACATGC
CTTCTGGGAGGGACCAAGGCGGCCAGGATATAACTGACTTCACCATGCAATTTGTGTCTTCTTAAAGAG
GTACCCAGAGAGTCTGTGCTGAATGTGGACTCAATCCCTAGGGCTGGCAGAAAGGGAACAGAAAGGTTTT
AGTACGGCTATAGCCTGGACTTTCTGTGTGTCTACACCAATGCCCAACTGCCTGCCTTAGGGTAGTGCTAAGA
GATCTCCTGTCCATCAGCCAGGACAGTCAGCTCTCTCCTTTCAGGGCCAATCCCAGCCCTTTTGTGAGCCAG
GCCTCTCTCACCTCTCCTACTCACTTAAAGCCCGCCTGACAGAAACCACGGCCACATTTGGTTCTAAGAAACCT
CTGTCATTGCTCCACATTCTGATGAGCAACCGCTTCCCTATTTATTTATTTATTTGTTTGTGTTTATTCA
TTGGTCTAATTTATTCAAAGGGGGCAAGAAGTAGCAGTGTCTGTAAAAGAGCCTAGTTTTTAATAGCTATGGAAT
CAATTCATTTGGACTGGTGTGCTCTCTTTAAATCAAGTCCTTTAATTAAGACTGAAAATATATAAGCTCAGATT
ATTAAATGGGAATATTTATAAATGAGCAAATATCATACTGTTCAATGGTTCTGAAATAAACTTCTCTGAAG

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FIGURE 48

MAEVP ELASEMMAY YSGNEDDLFF EADGPKQMKCSFQDL DLCPLDGGIQLRISDHHYSKGFRQAASVVVAMDKLR
KMLVPCPQTFQENDLSTFFPFI FEEEP IFFDTWDNEAYVHDAPVRS LNCTLRDSQKSLVMSGPYELKALHLQGQ
DMEQQVVF SMSFVQGEESNDKIPVALGLKEKNLYLSCVLKDDKPTLQLESVDPKNYPKKKMEKRFVFNKIEINN K
LEFESAQFPNWI STSQAENMPVFLGGTKGGQDITDFTMQFVSS

CCCTTTTCTCCCGCTTTTGAAGAGACAAATGCTACTTTCAGTTTGGAGACAAACATATGATCAGACATGGAAT
GTGGTAATTCGGATGCATTTCGTGATTGCAACAGATTGAAGAAATTAGACCAGACAAAGAGTGTTTTGTAGAGGAGA
GAGGAGGAGGAGGAGGCTGAGAGAGGGAGGGCGACGGGGGTGAGAAAGGGGAGGCCGCTCTGAGCGGGACGCCG
GGACTCCCGCCGCTGCTAAATATATCCGTAGAATGGAGAGGGACCGGATCTCAGCCTTGAAAAGATCTTTTGAGG
TCGAGGAGGTTCGAGACACCCAACCTCCACCCACCCCGGAGGGTCCAGACTCCCCTACTCCGAGCCACTGTGGCCA
GCTCCACCCAGAAATTCCAGGACCTGGGCGTGAAGAACTCAGAACCTCGGCCCGCCATGTGGACTCCCTAAGCC
AACGCTCCCCCAAGGCGTCCCTGCGGAGGGTGGAGCTCTCGGGCCCCAAGGCGGCCGAGCCGGTGTCCCGGCCGA
CTGAGCTGTCCATTGACATCTCGTCCAAGCAGGTGGAGAACGCCGGGGCCATCGGCCCGTCCCGGTTCTGGGCTCA
AGAGGGCCGAGGTGTTGGGCCACAAGACGCCAGAACC GGCCCCCTCGGAGGACGGAGATCACCATCGTCAAACCCC
AGGAGTCAGCCACCGGAGGATGGAGCCCCCTGCCTCCAAGGTCCCCGAGGTGCCCACTGCCCTGCCACCGACG
CAGCCCCCAAGAGGGTGGAGATCCAGATGCCCAAGCCTGCTGAGGCGCCACCGCCCCCAGCCCAGCCCAGACCT
TGGAGAATTGAGAGCCTGCCCTGTGTCTCAGCTGCAGAGCAGGCTGGAGCCCCAAGCCCCAGCCCCCTGTGGCTG
AGGCTACACCCCGGAGCCAGGAGGCCACTGAGGCGGCTCCCAGCTGCGTTGGCGACATGGCCGACACCCCCAGAG
ATGCCGGGCTCAAGCAGGCGCCTGCATCACGGAACGAGAAGGCCCGGTGGACTTCGGCTACGTGGGGATTGACT
CCATCCTGGAGCAGATGCGCCGGAAGGCCATGAAGCAGGGCTTCGAGTTCAACATCATGGTGGTTCGGGCAGAGCG
GCTTGGGTAAATCCACCTTAATCAACACCCTCTTCAAATCCAAATCAGCCGGAAGTCGGTGCAGCCACCTCAG
AGGAGCGCATCCCCAAGACCATCGAGATCAAGTCCATCACGCACGATATTGAGGAGAAAGGCGTCCGGATGAAGC
TGACAGTGATTGACACACCAGGGTTCGGGGACCACATCAACAACGAGAACTGCTGGCAGCCCATCATGAAGTTCA
TCAATGACCAGTACGAGAAATACCTGCAGGAGGAGGTCAACATCAACCGCAAGAAGCGCATCCCGGACACCCGCG
TCCACTGCTGCCTCTACTTTCATCCCCGCCACCGGCCACTCCCTCAGGCCCTGGACATCGAGTTTATGAAACGCC
TGAGCAAGGTGGTCAACATCGTCCCTGTTCATCGCCAAGGCGGCACACTCACCCTGGAGGAGAGGGTCCACTTCA
AACAGCGGATCACCGCAGACCTGCTGTCCAACGGCATCGACGTGTACCCCCAGAAGGAATTTGATGAGGACTCGG
AGGACCGGCTGGTGAACGAGAAGTTCCGGGAGATGATCCCATTTGCTGTGGTGGGCAGTGACCACGAGTACCAGG
TCAACGGCAAGAGGATCCTTGGGAGGAAGACCAAGTGGGGTACCATCGAAGTTGAAAACACCACACACTGTGAGT
TTGCCTACCTGCGGGACCTTCTCATCAGGACGCACATGCAGAACATCAAGGACATCACCAGCAGCATCCACTTCG
AGGCGTACCGTGTGAAGCGCCTCAACGAGGGCAGCAGCGCCATGGCCAACGGCGTGGAGGAGAAGGAGCCAGAAG
CCCCGGAGATGTAGACGCCCCCTGCCCCACCCCGGGATCCTGCCCCCAAGTCATTTCGGTCCCCCCCCCAGGCC
TCCCACCACCCCATTTTATTTTATATGATTTTCTCCATTTGTTCATCGTTCCCCACCCCTTCGACATGCTGCCAGG
AAACAAGGGAAGGGGCTCCCTCCGAGTGAGTCAGTGATGAGGCCGCGGCCCTCCCCGAGGTTGTGGGGAGGCTGC
ACTGGAGCCACAGGCAGGGGTGAGAGCACCCACTGAATTGACATGACCCTCTGTCCCCAGGCCTGGCTCCCCGAG
GGCTCAGAAGAGCAGCTTCGGTGTGCAGATCATCCGTGCTGTGGGGTTCTCAGTGCCGGAGCTTGGGGTGGGGG
CAGGCCTCGCACTTGCAGAGGAGCCCAGTGGGCTGCACGCTCCCCCTCCATCCCCATCGGCCCTGTCCCCTGGAGT
GTGTGAGAGCCCAGGGGAGAATGCAGCCCACCAGGAGCACCTGGACCCCTGCCCCGCCACATGGTGTGGCCATCA
CTCAGCCCCCTACCCCTGCCCTGCTCCTAAGGGTAGAAAACCTCAGGGTCCCCTGCCACCGACTGCCAGCCACTC
CAAGCCCCCTGGCAGCTGCCCTCCTGGAGCAGAAAGTGCCTTTATCTCAGCCATCCGCAGACTGCTGGCCAGAT
GCGGGGACAGGCTGGAATGAGGGAGGCGTCTTCATCTCCCTGCCATCCCCCTCTCACGCCACCCCCGCCCCCACC
GGGCTGCAGGTGCTGCTGATGCGCTGGGATCTGATTGAGGATAAAAAGGAAGGAGAGATGACCCCTACCCCTCA
TCCCCCAGTTTTTAAAAGGTCTAAGCAAGTGAGTCTGGTGGAGGAGCTGAGGGAGGGAGCCATGGAAGGTGCCAG
AAGGAAGGTTGGCGGGGGCACGTGTGGGCCGTGGCTTGGGCTGGTCAGAGTGGCGTGAGCTGCCCGGCGCCTGCC
CTGCCCAAGTGACCAGGGAAGTGTGTGTGTGTCCATGTGTATGCGTGTCCGTCTGTCTGTCTAGTGTCTGGGTTT
GGCCCCAAGACTGGGCTGTAGTTACATTAATGCCAGCCAGCCACCCCTGCCACTCACCCCTCCTGGCCCCAGGCCT
TGCTGACTCTCTGAGCTGGGGAGGTGGGAGGCCAGGCGAGCCTGACTCTGTTGATCTACCCGTGCTTGGGCCCT
CCCCCTCAGAGCCCATGGTAACGAACCCCTAGAAAGGAGAGAACGGGCGTCAGGGGTGCACAGTCCACAGCTGAAG
AGCAAGGTTTCGTGGCAGCACGGCCCGGCCCTCACCTCTGTCCCCACGAGGGGACCCATGGGGGCTGTCTTTG
CAGGGCACAGATGACCAAAGTCCCTTCTGCTTCTGTTACCTGTCTTGCTCCTGGGGAGAAAGAGGGGCTGTAT
GAGACTCCACTCAGGTGCACACATCACCAGGTGCATCTGCAGGCACCGGGCTGGCTGCTTGCAGCCAGGAGAAGG
TCAGCGAGAAGGAGTGTATGAGTGTGAGTGTGTGTGCATGGAAGTTGGGGCACTGGGCGTCTGACTCCCTCCCCA
CCCAAGAGAGGAAGGACCCCTCACACCCCCACTGGCGAGACAGTTTACTTTGCCGACTTGCCATGTTTTTGCCA

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FIGURE 49B

AAACCAAGATTTTGAAGGAAATGAGTGGCCAGCGCCAGGGCCCAGGCCATGTGGCCTGCCCAGCCTCAATGTCAC
TTGGCGGCGGGGTGGGGTGGGGGTGGGCAGCAGCATCCCAGCCTTGAGATGCTTCACTTTCCTTCTCTGTAACCA
GACTTTGAAAAATTGTTTCGTTTCATCAGGCTCTGTTTCCTCAATGGCCTTTTGCTACGTGCCTCCCGAGAAATTTG
TCTTTTGTATAAATGACAAAGTGTGAAATGTATTTCTGAAATAAATGTTTCAAATGCAGAAACCCAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 50

MERDRISALKRSFEVEEVETPNSTPPRRVQTPLLRA TVASSTQKFQDLGVKNSEPSARHVDSL SQRSPKASLRRV
ELSGPKAAEPVSRRTLSIDISSKQVENAGAIGPSRFG LKRAEVLGHKTPEPAPRRTEITIVKPQESAHR RMEPP
ASKVPEVPTAPATDAAPKRVEIQMPKPAEAPTAPSPA QTLENSEPAPVSQLQSRLEPKPQPPVAEATPRS QEATE
AAPSCVGDMA DTPRDAGLKQAPASRNEKAPVDFGYVGIDSILEQMRRKAMKQGFEFNIMVVGQSGLGKSTLINTL
FKSKISRKSVQPTSEERIPKTIEIKSITHDIEEKGV RMKLTVIDTPGFGDHINNENCWQPIMKFINDQY EKYLQE
EVNINRKKRIPDTRVHCCLYFIPATGHSLRPLDIEFM KRLSKVVNIVPVIKADTLTLEERVHFKQRI TADLLSN
GIDVYPQKEFDEDEDSEDLVNEKFREMIPFAVVGSD HEYQVNGKRILGRKTKWGTIEVENTHCEFA YLRDLLIRT
HMQNIKDITSSIHFEAYRVKRLNEGSSAMANGVEEKE PEAPEM

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FIGURE 51

GGCACGAGGGGAAGTTGCCGGCGGCCGCGCGGCCTCCCGGGCGGGCCTACAGCCATGTCCCGGGACCCGGGGTTCG
GGCGGCTGGGAGGAGGCCCCGCGCGCAGCTGCCGCGCTCTGCACCCTGTACCACGAGGCCGGACAGCGGCTGCGC
CGCCTGCAGGACCAGCTCGCTGCCC GCGACGCCCTCATCGCTCGCCTCCGCGCCCGCCTGGCCGCGCTGGAGGGG
GACGCCGCGCCGTCCCTAGTGGACGCGCTGCTGGAGCAGGTTGCGCGCTTCCGGGAGCAGCTGCGAAGGCAGGAG
GGCGGGCGCCGCCGAGGCCAGATGCGCCAGGAAATTGAGAGGCTGACTGAGCGACTAGAAGAAAAAGAGAGGGAG
ATGCAGCAGCTGCTGAGCCAGCCCCAACACGAGCGAGAGAAGGAAGTCGTCCTGCTACGGAGGAGCATGGCAGAA
GGGGAGCGCGCCCGGGCCGCCAGTGACGTCCTGTGCCGCTCCTTGGCCAACGAGACCCATCAGCTGCGGAGGACG
CTGACCGCCACCGCCACATGTGTGTCAGCATCTGGCCAAGTGTCTGGATGAACGACAGCATGCACAAAGGAATGTG
GGGGAGAGAAGTCCTGACCAGTCGGAACACACAGATGGGCACACCTCTGTCCAGAGTGTTATTGAGAAAGTTGCAG
GAAGAAAAATCGACTGTTAAAAACAGAAGGTGACTCACGTTGAAGACCTCAATGCCAAGTGGCAGCGCTACAACGCC
AGCAGGGGACGAATACGTGAGGGGGCTCCATGCGCAGCTCAGGGGGCTGCAGATCCCCACGAGCCCGAGCTGATG
AGGAAGGAGATCTCCCGGCTCAACAGACAGTTGGAAGAGAAAAATAAATGACTGTGCCGAAGTGAAGCAGGAGCTG
GCGGCCCTCCAGGACGGCCCGGGATGCTGCGTTGGAGCGGGTGCAGATGCTGGAACAGCAGATTCTCGCTTACAAG
GATGACTTCATGTGCAAAAGGGCCGATCGGGAACGGGCTCAAAGTAGGATTCAAGAACTGGAGGAAAAGGTGCGC
TCTTTGCTGCACCAGGTGTCTTGAGACAGGATTCTCGAGAGCCAGACGCCCGCCGGATTACGCTGGGAGCAAA
ACTGCCAAGTATTTGGCCGCCGACGCATTAGAGCTTATGGTGCCTGGTGGCTGGAGGCCCTGGGACTGGGTCCAG
CAGCCAGAACCCCTGCAGAGGGCGGGCATCCTGGCGCGGTCCAGAGAGGCCAGGGGGACCTTCAGTGCCCTCAC
TGCTGCAGTGCTTCAGTGACGAGCAAGGGGAAGAGCTCCTCAGGCATGTGGCCGAGTGCTGCCAGTGAACCGAGA
CTCACCCGTGCCCTTGCGGCCCTCCTGGCCCGGTGCAGCTGCCCTCAGGGACAGGGTGGGTGCTCTCAGATGCCAT
GGGTTGAGCTCTACTGAGAGCCAAGGCCCTAGAAATAGTTGCGGGGCACTCTGATCGTTCACTTTGGTCCCTTTG
GCTATGGAACAGGCTGGGTACAGGGAACTGCCAGTGAGGCTGGAGGCTGGAGGTGGAGATGGGGTCAGGAACAT
CTGGCAGAGGGAGGTCCAGTCTGTGTCTCCATCAGGCTTAAGCCAGAGCTATCTGGTGTGGTGTGCCAGCCCC
TCCCCAGCCTGCCTAGAAAGGGGTGGCTGCCTGAGGGAGTCACTTGTATGGTCCCCAGGGTGGGAGCCCCATCC
TGTTCTATGGAATAAAGCGTCGCCTCTCTGCCTCGAACCAGTCAAATGGAGTATTGCGGCTGCACGTCACACTAG
GGTGGCCACCCCGCCATTGCGAGCCACATGTCTGCACTGAGAACTGCATTTAGTAGCATTTGTATCCAGCC
GGAAGTTAAAGCACACTTACTTTATTACCTATTTTATAATAAACGTTCTTGCTGCTGTGACTGCAAAAAAAA
AAAAAAA

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FIGURE 52

MCQLLSQPQHEREKEVVLLRRSMAEGERARAASDVLCRSLANETHQLRRTL TATAHMCQHLAKCLDERQHAQRNV
GERSPDQSEHTDGHTSVQSVIEKLQEENRLKQKVTHVEDLNKWKQRYNASRDEYVRGLHAQLRGLQIPHEPELM
RKEISRNLNRQLEEKINDCAEVKQELAASRTARDAALERVQMLEQQILAYKDDFMSEADREARASRIQEELEEKVA
SLHQVSWRQDSREPDAGRIHAGSKTAKYLAADALELMVPGGWRPGTGSQQPEPPAEGGHPGAVQRGQGDLCQPH
FSDEQGEELLRHVAECCQ

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FIGURE 53

GTGCGCTGCGCACCTGGCTCAGGTGAGCTGCCCCGCCCCCGCCGCGAGCCCCAGGTCTTGGCAGCAGCC
CCTGACCTGTCCAGGTGCCCTGTCCAGCTGACTGCAAGGACAGAGAGGAGTCTTGGCCAGCTCTTGGATCAGTCT
GCTGGCCGAGGAGCCCGGTGGAGCCAGGGGTGACCCTGGAGCCCAGCCTGCCCCGAGGAGGCCCGGCTCAGAGC
CATGCCAGGTGTCTGTGATAGGGCCCCCTGACTTCTCTCCCCGTCTGAAGACCAGGTGCTGAGGCCTGCCTTGGG
CAGCTCAGTGGCTCTGAAGTGCACGGCTTGGGTAGTCTCTGGGCCCCACTGCTCCCTGCCTTCAGTCCAGTGGCT
GAAAGACGGGCTTCCATTGGGAATTGGGGGCCACTACAGCCTCCACGAGTACTCCTGGGTCAAGGCCAACCTGTC
AGAGGTGCTTGTGTCCAGTGTCTTGGGGGTCAACGTGAACGAGCACTGAAGTCTATGGGGCCTTCACCTGCTCCAT
CCAGAACATCAGCTTCTCTCTTCACTCTTCAGAGAGCTGGCCCTACAAGCCACGTGGCTGCGGTGCTGGCCTC
CCTCCTGGTCTGCTGGCCCTGCTGCTGGCCGCCCTGCTCTATGTCAAGTGCCGTCTCAACGTGCTGCTCTGGTA
CCAGGACGCGTATGGGGAGGTGGAGATAAACGACGGGAAGCTCTACGACGCTACGTCTCCTACAGCGACTGCCC
CGAGGACCGCAAGTTCGTGAACCTTCATCCTAAAGCCGACGCTGGAGCGGCGTCGGGGCTACAAGCTCTTCTGGA
CGACCGCGACCTCCTGCCGCGCGCTGAGCCCTCCGCCGACCTCTTGGTGAACCTGAGCCGCTGCCGACGCCTCAT
CGTGGTGTCTTCGACGCCTTCTGAGCCGGGCTGGTGCAGCCACAGCTTCCGGGAGGGCCTGTGCCGGCTGCT
GGAGCTCACC CGCAGACCCATCTTCATCACCTTCGAGGGCCAGAGGCGCGACCCGCGCACCCGGCGCTCCGCT
GCTGCGCCAGCACCGCCACCTGGTGACCTTGCTGCTCTGGAGGCCCGGCTCCGTGACTCCTTCTCCGATTTTGT
GAAAGAAGTGCAGCTGGCGCTGCCGCGGAAGGTGCGGTACAGGCCGGTGGAAGGAGACCCCCAGACGCAGCTGCA
GGACGACAAGGACCCCATGCTGATTCTTCGAGGCCGAGTCCCTGAGGGCCGGGCCCTGGACTCAGAGGTGGACCC
GGACCCTGAGGGCGACCTGGGTGTCCGGGGGCTGTTTTTGGAGAGCCATCAGCTCCACCGCACACCAAGTGGGGT
CTCGCTGGGAGAGAGCCGGAGCAGCGAAGTGGACGTCTCGGATCTCGGCTCGCGAACTACAGTGCCCCGCACAGA
CTTCTACTGCCTGGTGTCCAAGGATGATATGTAGCTCCACCCAGAGTGCAGGATCATAGGGACAGCGGGGGCC
AGGGCAGCGGCGTCTGCTCAACAGGACCACAACCCCTGCCAGCAGCCCTGGGACCCCTGCCAGCAGCCC
TGGGAAAAGGCTGTGGCCTCAGGGCGCCTCCAGTGCCAGAAAATAAAGTCCTTTTGGATTCTGAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 54

MPGVCDRAPDFLSPSEDQVLRPALGSSVALNCTAWVVS GPHCSLPSVQWLKDGLPLGIGGHYSLHEYSWVKANLS
EVLVSSVLGVNVTSTEVYGAFTCSIQNISFSSFTLQ RAGPTSHVA AVLALLVLLALLLAALLYVKCRLNVLLWY
QDAYGEVEINDGKLYDAYVSYSDCPEDRK FVNFI LKPOLERRRGYKFLDDRDL LPRAEPSADLLVNLSRCRRLI
VVLSDAFLSRAWCSHSFREGLCRLLELTRRPIFITFEGQRRDPAHPALRLLRQHRHLVTLLLRPGSVTPSSDFW
KEVQLALPRKVRYRPVEGDPQTQLQDDKDPMLILRGRVPEGRALDSEVDPDPEGDLGVRGPVFGEPSAPPHTSGV
SLGESRSSEVDVSDLGSRNYSARTDFYCLVSKDDM

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FIGURE 55A

GGTTGGCTCTTGCACTTCCTGGCTCTCTGGACTTGGTTATGTGATTGAGCCTCCATGGCCTCCGTGTCTTTGTCT
GTCAATGGGTTTGATTAAAGCGTTGACCTCATAGGTTCTTAGGAGGATTAATGAGAACATTTTATGTAAAGCTGC
TTACATGGAGCCTTGGTATGTGCCGGAAGCTTTAGCCCTTTATTAAGAGTGACAGCAGACCCAGCACGGTGGCT
CATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCAGATCACTTGGGGTCAGGAGTTTCGAGACCAGCTAC
TCGGGAGGCAGAGGCAGGAGAATCGCTTGAACCTGGGGTGACAGAGTTGCAGTAAGCTGAGCTCGCACCAGTGA
CTCCAGCCTGAGTGACAGAGTGAAACTCAGTCTCAAAAAAAAAAAAAAAAAAGAGTGGCAGTAGTGGTGGGGGA
GACCCCATCCCCCTTGCTGGGGTTTCTAGGAAAGAAGGCTGGTGAGAGCTGTTGCTGGTGGTGGGCCCTGAGC
CGCAGGGTCTGAGGGCCTACCCTGTGCTACCCAGAGCTGCCTGAGAACTGGACAGACACGCGGGAGACGCTGCT
GGAGGGGATGCTGTTTCAGCCTCAAGTACCTGGGCATGACGCTAGTGGAGCAGCCCAAGGTGAGGAGCTGTGGC
CGCCGCCATCAAGAGGATCGTGGCTACAGCTAAGGCCAGTGGGAAGAAGCTGCAGAAGGTGACTCTGAAGGTGTC
GCCAGGGGAATTATCCTGACAGACAACCTCACCAACCAGCTCATTGAGAACGTGTCCATATACAGGATCTCCTA
TTGCACAGCAGACAAGATGCACGACAAGGTGTTTGATACATCGCCCAGAGCCAGCACAAACCAGAGCCTCGAGTG
CCACGCCTTCTCTGCACCAAGCGGAAGATGGCACAGGCTGTTACCCCTACCGTAGCCAGGCCTTCAAAGTCGC
CTTTGAGTTTTGGCAGGTGTCCAAGGAAGAGAAAGAGAAGAGGGACAAAGCCAGCCAAGAGGGAGGGGACGTCTT
GGGGGCGCCAAAGACTGCACCCCCCTTGAAGAGCTTGGTCGCCACTGGGAACCTGCTGGACTTAGAGGAGAC
GGCTAAGGCCCCGCTGTCCACGGTCAGCGCCAACACCACCAACATGGACGAGGTGCCGCGGCCACAAGCCTTGAG
TGGCAGCAGTGTGTCTGGGTGAGTGGTTGTGTGCCAGCAGATCGGTGATCCTCAGCCTGACCTCTGGGTGAGC
CTGGGGCTGCTCCAGGGACCAGGCTCTGGGACCCGTGACTTGTGGGCCTCTGGGAGGACCAGACCCAGCCCGGTA
GTGCCCAGGCGCAGGATAGGGGATGAACAATGTCCCTTTTGAACCTGAGGCTGCATCCCCAACAGGCTTGGCTCC
CAGCACAGCTGTCTCCTCACAATGCTTGGCCTCTTGGCCTGAGCGTCCACGGCTCTGCCCACCACAAGACCAGCC
AAAGGCGCCCTTGTTCTTGGTGTGGCAGAGCTCGTCTCTACCACCCCTCCCCCTCAGCCGCTGAATGAGGACCC
AGAGACTTGGGCAGTCAACAGCTTGGTCCCTGACTCCCTCAGGGACTCAGGGCAAGCCCCCTGACCTCTCTGTCT
CAGCTTTTTCATCTCAGTAAGGGTGATGACCTCTGCCAACGGAATCTCCCGAGGAACCTGAAATTTAATTTTAA
TTTTTCATTTGAAATAATTTTCACTGTGTTACAAAATTAGTACAGAGAATTCCTGTTTACCCGTCATCCAGAT
TCCCCAATTGTTAACATCTTGATGACCACATTACACTGGTCAGAATCAGGAAACAAACAGATACTGTGCTGTT
ATATAATCTATAGAACTTACACATTTCTCCAGGTGCCCTTCAGTGTCTGTTTCTGGCCAGGATCCATTGCAG
AATCACATGTTAACTTGTGCTCTCTTTAATTTTTTAAATCTGGGTACTGGGGGCTCCCTGGTGTCCCTCGAGC
CTGTTCTCTGCTGTTTGGGAACCACCCTTGCCACTTGCCCATCTCACCAGAACGCCATGGAGGGACCTCACCTG
TCGCTTTTCTGCTGAGGCTGTGGGACTCCTGGCATCAGTTATCCCTCATGAACTTGGAAATTTGGCTTGGCTTTT
GGAAGTAAATGAAGGCAAGAAACTCCCTTCCCCACCCTCTTCTTTTGAATTTGAAAGCCATAGAAGTCATCA
GGTCCAATGCCCTCCTCTTATTGAAGGAAAAGCTGAGTTTCAACGTGGAGCAGTGACTTGCCCAAGGTCTCACGG
GCAGGTAGCATGGACCAGGGCACTGAACCCACCTGGGTCTCCAGACACCCTGGGACATGGCCTTTCTCCTCTCCC
ACGTCTCCAGCTTTGGGTCTTGGGCTGAGATGCTGGCGATGCACCCAGGCAGGAGGCTGCTGAGGCCGTGCC
TCCAGGCGCCACCCCTGAGCTTGTGTCTGAGTCCCTGTAGCTTACCCAGGGCTGGGACAAGCCCCAGCTGTGAG
CATGGGCTCCCCAAACATAGTTCTTATCTCCTGCTTTGTTTTTCCCAAGGAGCTGGATGATGGCCTGGATGAAG
CGTTTTTCGAGGCTTGCCAGTCTCGGACAAACCCTCAGGTCTGGACACTGGCCTGACAGCCCAGGACATGCATT
ACGCCCAGTGCTCTCGCTGTGACTGGGACAAGCCTGACAGCAGCGGCACAGAGCAGGATGACCTCTTCAGCT
TCTGAGGGCCCCGGGGCCAGCCGGACACAAGCGGCCCTGACACGTGATGGACCAAGCCACCTGCTGCGGGGGAGC
CAGTTCTGGGGCCCGCTGCCACCTCTCCAGCCCTCAGCATTGTGACCTGAAGATCAGAGCTGCAGCCAGTCA
GGCAGGGGAGAGATTTTTCTTTTAAAGCCCTGCTCTTTCTCTGAGAACCAAAAGATGCCTTGAATATTTATTAGT
GACTTCTGGCTTATGCTCAGAAGCCAGTCTGCGTCAGGCACGTCTCCTGCTGCGTGACATGTGCACTGCTGTAAT
CGGCTCCCGCTTGCTCTCCTGGAGCAAGCTCTGCCCTGGCTGTGGGTATCAGGACTGTGACCAAGCATTCTAG
TCCCTTCTCTTTCTAAGGACCCAAATTTCCCTGGGGGCATCCTGCTTCTGAAAGCTGTTGGATTTTCACTGAT
TTTTCCCCCACCCTCAGCACAGGAGAGACCCACAGCCGAGAGGGGAATGTGTCCTCTGCTCTGCTTCCCT
CAGGGCCAGCAGGCGGGGTTTGGCCCTGGACCCAGGCTCTTAGAGACTAAGGGGACGCTCCTGACCAAGA
CGATACAGCTTGGCACTTTAAAGCATTAACAGCAGGTGTGACCTGAGGGCTCCTCATGGTGTGCTGATTGAGTC
CAGCTTTCCTTCTGCCCTTCCCTCAGGAGAAGGGGCCAAAGGTCCCCGTGGATGGTCTCCACCTGTGCTTGAAC
CAGTGTAACCTGGCTGCTCCCTGCTCCAGGGACTGACACGGGGATCATCTCTGTGACCGCCCTCCGTGCGGGCCC

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FIGURE 55B

TGCCTGCCTTCTCCCCTCCACGCAAGGCTGTGCTCTTCCTCTGGTTTCTGTGTGTCCGTTTGAGTGTCTGCGCCC
CGCCTCCCCATACTTCCTGGGATGATGTGTGAAACCTGACACCTAGATTTATTTGGAAATATTCTATGACCACTT
TACAGATGAGGAACTGAGGCCTCAAGCGTGGAGGGGTAGAGTGAAGAGTAGAAGCCAGGTCTGATGCCAAAGCT
GCTTTCTTCTCTGCCTCCTCCTCACGCAACTCACACCTCCTTTTCTTCTAGCTTTGTTGTCCTCCCAGGAACCAA
AAAACCCAGCTATTTTCTGACCAAAATGTGTTTCATAACAAACCATCTGGTGCCTTTCCACACAGAACTGGCAG
GAGCCTCGTGTCTCTGCTAGCTGTCTCTCTTGTGATTTCCTGTGAAAATGCAAGTGTGTTGAAGTCTGCTCATTCCG
AGGGTGAAACAAAATCCAACCCTGTCAGAATCATGCTGTTCTCTTTGCTGACACTGTGACCCTGGGTGCGGACAG
ACCAGCAGCAATCTGTCTTTAGAATCGCTTTCTTCTCCTCCCTTTTGCCCCCGTGGGGCTCCCGGCATCTGAAA
GCCAGCAAAGCCTCCAGCATCTTTTCCATCCTGAGGTGCCTCCCAGTGGCCTGGCTTGTCGGAGCAAGTTTCATC
AGCCCTAGGGAAAACACGGCCCTCCTGGGAACCTCCTTACCTGGAGTAACCGGACACCTTAGACGGAGGTGCCTG
AGGGTGGGGTGGGATTTGCAGGGTCATTATCAGAACATGAGGATAACTTCCTTGCCCTGCTCTGTAGCCACCTC
CTTGGCACCGGCCTCTATTTGTCATAAGGCGGCGTGGGCGAGGCCTGACACAGGCCAGCCTTGGCACGAGGGGGG
CCAGGGGTTCTGAGAAGCGCTGCCCTGTGAGAGCCACGCTGGCCTTCGTCTCCATCTCTGGTTGACGGGCTGTCC
GTTTGCCTCCTGTGTGTCTGCAGACAAGTCTTGCTGTGCTTTATTTGTGAAACTTTAATGAGGAAAAACAAATA
ATAAATGTTCTCGTTTTGAAACTC

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FIGURE 56

MLFSLKYLGMTLVEQPKGEELSAAAIAKRIVATAKASGKKLQKVTCLKVSPRGIILTDNLINQLIENVSIYRISYCT
ADKMHDKVFAYIAQSQHNSLECHAFCTKRKMAQAVTLTVAQAFKVAFEFWQVSKEEKEKRDKASQEGGDVLGA
RQDCTPPLKSLVATGNLLDLEETAKAPLSTVSANTTNMDEVPRPQALSGSSVVWVSGCVASRSVILSLTSG

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FIGURE 57

GGCACGAGGGTTAGATTAGTCTGAAGCCGCCACCAGCCCCAGGCCCCCGTGCAGAAGAAAAGCGGGAGGGAACGG
CGGAGGCCGCGCTGCCCTGCACCGCCCTCCTGGAGGCCACTTGGAGAGTCCGGCCCCGAGGAGGCCATGGCCAC
AAGTGGCCACAGCTGGCCCCAGGTTGCCAGCGTCGCTACAGCCCAGACCAAGGCAGAATAATCTCCGGATGAGCT
GGTGGCACCGCTGAGCCTTTGGTCTCACCAGGGCTTCCTGTTGCTGGCAGGCGGGGTGGAGCGGAGCTGCTGGGA
GCTGGATAGGAGAGGGGTACAGGCTGCGGAAGAGGAGGTTCTTCGGGACACCCGTGGATGGACACGGCAAG
CACCAGGCCAACCACAGCTGGGGATAAAATAGCACAAACCACACCCTGCCGTCCAGCGCCTCCCAGCCTGTG
TTCCTAGTACCACCAGCAACCATCAATCCCGTCTCCTCCTGCCTCCTCCTGCAATCCACCCCGCCACGA
TATCGCCATGGCAGCCCTGATCGCAGAGAATTCCGCTTCCTGTCACTTTTCTTCAAGAGCAAGGATGTGATGA
CAACGGCCTGGTGGCACTGGGCACGGTGGGCAGCCAGGAGCTGTTCTCTGTGGTGGCCTTCCACTGCCCCCT
GCCGCCCCGGAACCTACCTGTACGGGCTGGCGGCCATCGGCGTGCCCGCCCTGGTGTCTTTCATCATTGGCA
CTCAACAACCACACCTGGAACCTCGTGGCCGAGTGCCAGCACCGGAGGACCAAGAACTGCTCCGCCGCC
CTTCCTCCTTCTAAGCTCCATCCTGGGACGTGCGGCTGTGGCCCCCTGTACCTGGTCTGTCTATCTCCCTGC
GGTGGTGAGGCTTATGTCTGTGCTCTCAGTGAGTTCGTGGACCCCTTCCTCACTCACGGCCAGGGAAGAGCACT
CATCAGCCCACGCCACTGAAATCCTGGCCAGGTTCCCTGCAAGGAGAACCCTGACAACCTGTCAGACTTCC
GAGGAGGTCAGCCGCAGGCTCAGGTATGAGTCCCAGCTCTTTGGATGGCTGCTCATCGGCGTGGTGGCCATCC
TGGTGTTCCTGACCAAGTGCCTCAAGCATTACTGCTCACCCTCAGCTACCGCCAGGAGGCCTACTGGGCGCAGT
ACCGCGCCAATGAGGACCAGCTGTTCCAGCGCACGGCCGAGGTGCACTCTCGGGTGTCTCGCTGCCAACAATGTGC
GCCGCTTCTTTGGCTTTGTGGCGCTCAACAAGGATGATGAGGAAGTATTGCCAACTTCCAGTGAAGGCACGC
AGCCACGGCCACAGTGAATGCCATCACCGGCGTCTACTTGTACCGTGAGAACCAGGGCCTCCCACTCTACAGCC
GCCTGCACAAGTGGGCCCAGGGTCTGGCAGGCAACGGCGCGGCCCTGACAACGTGGAGATGGCCCTGCTCCCT
CCTAAGGAGGTGCTTCCCATGCTCTTTGTAAATGGCACTACTTGGTCCCAAACCTGAACCCCACTGCTTGCTCACA
TCCATATCAGAAGGGGATTTTTAAAAAAGTGTATCTTCTTGGCCAGGGGAAAGGACCACAAGGCAATCTGGGGT
GTGGACAGACCCAGTAGACAATGGAAGCCAGCCAGCAGGGCCAGGTGACAGTGAAGCTCACCAGTGGGCTCCTT
TATGGTACTCTATGCAGTTAACATGTATCTAGCTGCATAGGGACACCCAGCGCAGCAGTGCACCACTGGGAAGTG
GCCTCCAGTGCAGCCTCTGGCCTTATTTTATATATTTAAATTTTGTATAAAGTTTTTCTTACTAAAAAAAAAAAA
AAAAAA

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FIGURE 58

MAALIAENFRFLSLFFKSKDVMIFNGLVALGTVGSQELFSVVAFHCPSPARNYLYGLAAIGVPALVLFIIIGIIL
NNHTWNLVAECQHRRTKNCSAAPTFLLLSSILGRAAVAPVTWSVISLLRGEAYVCALSEFVDPSSLTAREEHFPS
AHATEILARFPCKENPDNLSDFREEVSRRLRYESQLFGWLLIGVVAILVFLTKCLKHYCSPLSYRQEAYWAQYRA
NEDQLFQRTAEVHSRVLAANNVRRFFGFVALNKDDEELIANFPVEGTQPRPQWNAITGVYLYRENQGLPLYSRH
KWAQGLAGNGAAPDNVEMALLPS

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FIGURE 59

ACGAGGGACGCAGCCATGGCGGAGGCGGCTTTGGAAGCCGTGCGGAGCGAGTTACGAGAATTCCCGGCCGCTGCA
AGGGAGCTCTGCGTGCCCTCTTGCTGTGCCCTACCTGGACAAACCCCCAACTCCGCTCCACTTCTACCGGGACTGG
GTCTGCCCAACAGGCCGTGCATTATCCGCAACGCTCTGCAGCACTGGCCGGCCCTCCAGAAGTGGTCCCTCCCC
TATTTTACAGAGCCACAGTGGGCTCCACAGAGGTGAGTGTGGCCGTGACCCAGATGGTTACGCGGATGCCGTGAGA
GGGGATCGCTTCATGATGCCAGCTGAGCGCCGCTGCCCTGAGCTTCGTGCTGGATGTGCTGGAGGGCCGGGCC
CAGCACCTGGAGTCCCTCTATGTGCAGAAGCAGTGTCTCAACCTGCCCAGCGAGCTGCCCCAGCTGCTGCCCTGAT
CTGGAATCCCATGTGCCCTGGGCTCCGAAGCCCTGGGAAAGATGCCCGATGCTGTGAACTTCTGGCTGGGGGAG
GCGGCTGCAGTGACTTCTTTGCACAAGGACCACTATGAGAACCTCTACTGCGTGGTCTCAGGAGAGAAGCATTTC
CTGTTCCATCCGCCAGCGACCGGCCCTTCATCCCCTATGAGCTGTACACGCCGGCAACCTACCAGCTAACTGAA
GAGGGCACCTTTAAGGTGGTGGATGAAGAGGCCATGGAGAAGGCAGAGGTGTCCAGGACCTGCCGTGCTCACGGTT
CGTGTCTGCAGGCCCATCGCCTACCCTCTAAGGACCTAGTGACCCCTCTGACTGCTACGTGACTCTCTGGCTG
CCCACGGCCTGCAGCCACAGGCTCCAGACACGCACGGTCAAGAACAGCAGTAGCCCTGTCTGGAACCAGAGCTTT
CACTTCAGGATCCACAGGCAGCTCAAGAATGTATGGAAGTCAAGTCTTTGACCAGGACCTGGTGACCGGAGAT
GACCCTGTGTTGTCTAGTACTGTTTGATGCGGGGACTCTGCGGGCTGGGGAGTCCGGCGCGAGAGCTTCTCACTG
AGCCCTCAGGGTGAGGGGCGCCTGGAAGTTGAATTTGCGCTGCAGAGTCTGGCTGACCGTGGCGAGTGGCTCGTC
AGCAATGGCGTTCTGGTGGCCCGGAGCTCTCTGCTTGACGTTCAACTGGAGGAGACAGGAGACCAGAAGTCC
TCAGAGCACAGAGTTCAGCTTGTGGTTCCTGGGTCTGTGAGGGTCCGCAGGAGGCCTCTGTGGGCACTGGCACC
TTCCGCTTCCACTGCCAGCCTGCTGGGAGCAGGAGCTGAGTATTCGCCTGCAGGATGCCCCGAGGAGCAACTA
AAGGCGCCACTGAGTGCCCTGCCCTCTGGTCAAGTGGTGAGGCTTGTCTTCCCCACGTCCAGGAGCCCTGATG
AGAGTGGAGCTGAAAAAGAAGCAGGACTGAGGGAGCTGGCCGTGCGACTGGGCTTCGGGGCCCTGTGCAGAGGAG
CAGGCCTTCCTGAGCAGGAGGAAGCAGGTGGTGGCCGCGGCCTTGAGGCAGGCCCTGCAGCTGGATGGAGACCTG
CAGGAGGATGAGATCCCAGTGGTAGCTATTATGGCCACTGGTGGTGGGATCCGGGCAATGACTTCCCTGTATGGG
CAGCTGGCTGGCCTGAAGGAGCTGGGCCTCTTGATTGCGTCTCCTACATCACCGGGGCTCGGGCTCCACCTGG
GCCTTGGCCAACCTTTATGAGGACCCAGAGTGGTCTCAGAAGGACCTGGCAGGGCCCACTGAGTTGCTGAAGACC
CAGGTGACCAAGAACAAGCTGGGTGTGCTGGCCCCCAGCCAGCTGCAGCGGTACCGGCAGGAGCTGGCCGAGCGT
GCCCGCTTGGGCTACCCAAGCTGCTTCACCAACCTGTGGGCCCTCATCAACGAGGCGCTGCTGCATGATGAGCCC
CATGATCACAAGCTCTCAGATCAACGGGAGGCCCTGAGTCAAGGCCAGAACCCTCTGCCATCTACTGTGCCCTC
AACACCAAGGGCAGAGCCTGACCACTTTTGAATTTGGGGAGTGGTGCAGATTCTCTCCCTACGAGGTCCGGCTTC
CCCAAGTACGGGGCTTCATCCCCTCTGAGCTCTTTGGCTCCGAGTTCTTTATGGGGCAGCTGATGAAGAGGCTT
CCTGAGTCCCGCATCTGCTTCTTAGAAGGTATCTGGAGCAACCTGTATGCAGCCAACCTCCAGGACAGCTTATAC
TGGGCCTCAGAGCCCAGCCAGTCTTGGGACCGCTGGGTGAGGAACAGGCCAACCTGGACAAGGAGCAGGTCCCC
CTTCTGAAGATAGAAGAACCACCTCAACAGCCGGCAGRATAGCTGAGTTTTTACCGATCTTCTGACGTGGCGT
CCACTGGCCCAGGCCACACATAATTCCTGCGTGGCCTCCATTTCCACAAAGACTACTTTACGATCCTCACTTC
TCCACATGGAAAGCTACCACTCTGGATGGGCTCCCAACCAGCTGACACCCTCGGAGCCCCACCTGTGCTGCTG
GATGTTGGCTACCTCATCAATACCAGCTGCCCTGCCCTCCTGCAGCCCACTCGGGACGTGGACCTCATCCTGTCA
TTGGACTACAACCTCCACGGAGCCTTCCAGCAGTTGCAGCTCCTGGGCCGTTCTGCCAGGAGCAGGGGATCCCG
TTCCACCCATCTCGCCAGCCCCGAAGAGCAGCTCCAGCCTCGGGAGTGCCACACCTTCTCCGACCCACCTGC
CCCGGAGCCCTGCGGTGCTGCACTTTCTCTGGTCAAGCACTCCTTCCGGGAGTACTCGGCCCTGGGGTCCGG
CGGACACCCGAGGAGGCGGCAGCTGGGGAGGTGAACCTGTCTTCATCGGACTCTCCCTACCACTACACGAAGGTG
ACCTACAGCCAGGAGGACGTGGACAAGCTGCTGCACCTGACACATTACAATGTCTGCAACAACCAGGAGCAGCTG
CTGGAGGCTCTGCGCCAGGCAGTGCAGCGGAGGCGGCAGCGCAGGCCCCACTGATGGCCGGGGCCCTGCCACCC
CTAACTCTCATTCATTCCCTGGCTGCTGAGTTGCAGGTGGGAAGTGTATCACGAGTGTTCAGAGCCTCGGGC
TCAGGTGGCACKGTCCCAGGGTCCAGGCTGAGGGCTGGGAGCTCCCTTGCGCCTCAGCAGTTTGCAGTGGGGTAA
GGAGGCCAAGCCCATTTGTGTAATCACCCAAAACCCCCCGCCTGTGCCTGTTTTCCCTTCTGCGCTACCTTGAG
TAGTTGGAGCACTTGATACATCACAGACTCATACAAAAA

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FIGURE 60

MAEAALEAVRSELREFPAAARELCVPLAVPYLDKPPTPLHFYRDWVCPNRPCTIRNALQHWPALQKWSLPYFRAT
VGSTEVSVAVTPDGYADAVRGDRFMMPAERRLPISFVLDVLEGRAQHHPGVLYVQKQCSNLPSELPQLLPDLESHV
PWASEALGKMPDAVNFWLGEAAAVTSLHKDHYENLYCVVSGEKHFLFHPPSDRPFIPYELYTPATYQLTEEGTFK
VVDEEAMEKAEVSRTCCLLTVRVLQAHRLPSKDLVTPSDCYVTLWLPTACSHRLQTRTVKNSSSPVWNQSFHFRIH
RQLKNVMELKVFDQDLVTGDDPVLSVLF DAGTLRAGEFRRESFSLSPQGEGRLEVEFRLQSLADRGEWLVSNGVL
VARELSCLHVQLEETGDQKSSEHRVQLVVP GSCEGPQEASVGTGTFRFHCPACWEQELSIRLQDAPEEQLKAPLS
ALPSGQVVRLVFPTSQEPLMRVELKKEAGLRELAVRLGFGPCAEEQAFLSRRKQVVAAALRQALQLDGDLOEDEI
PVVAIMATGGGIRAMTSLYGQLAGLKEGLLDVSYITGASGSTWALANLYEDPEWSQKDLAGPTELLKTQVTKN
KLGVLAPSQLQRYRQELAERARLGYPSCFTNLWALINEALLHDEPHDHKLSDQREALSHGQNPLPIYCALNTKGQ
SLTTTFEGEWCEFSPIYEVGF PKYGAFIPSELFGEFFMGQLMKRLPESRICFLEGIWSNLYAANLQDSLYWASEP
SQFWDWRVRNQANLDKEQVPLLKIEPPSTAGRIAEFFTDLLTWRPLAQATHNFLRGLHFHKDYFQHHPHFSTWKA
TTLDGLPNQLTPSEPHLCLLDVGYLINTSCLPLLQPTRDVDLILSLDYNLHGAFQQLQLLGRFCQEQGIPFPPI
PSPEEQLPRECHTFSDPTCPGAPAVLHFP LVSDSFREYSAPGVRRTPEEAAAGEVNLSSSDSPYHYTKVTYSQE
DVDKLLHLTHYNVCNNQEQLEALRQAVQRRRQRRPH

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FIGURE 61

CTTCGGGTGTACGTGCTCCGGGATCTTCAGCACCCGCGGCCGCCATCGCCGTCGCTTGGCTTCTTCTGGACTCAT
CTGCGCCACTTGTCCGCTTCACACTCCGCCGCCATCATGGTGAAGCTCGCGAAGGCAGGTAAAAATCAAGGTGAC
CCCAAGAAAATGGCTCCTCCTCCAAAGGAGGTAGAAGAAGATAGTGAAGATGAGGAAATGTCAGAAGATGAAGAA
GATGATAGCAGTGGAGAAGAGGTCGTCATACCTCAGAAGAAAGGCAAGAAGGCTGCTGCAACCTCAGCAAAGAAG
GTGGTCGTTTCCCCAACAAAAAGGTTGCAGTTGCCACACCAGCCAAGAAAGCAGCTGTCACTCCAGGCCAAAAAG
GCAGCAGCAACACCTGCCAAGAAGACAGTTACACCAGCCAAAGCAGTTACCACACCTGGCAAGAAGGGAGCCACA
CCAGGCCAAAGCATTGGTAGCAACTCCTGGTAAGAAGGGTGCTGCCATCCCAGCCAAGGGGGCAAAGAATGGCAAG
AATGCCAAGAAGGAAGACAGTGATGAAGAGGAGGATGATGACAGTGAGGAGGATGAGGAGGATGACGAGGACGAG
GATGAGGATGAAGATGAAATTGAACCAGCAGCGATGAAAAGCAGCAGCTGCTGCCCCCTGCCTCAGAGGATGAGGAC
GATGAGGATGACGAAGATGATGAGGATGACGATGACGATGAGGAAGATGACTCTGAAGAAGAAGCTATGGAGACT
ACACCAGCCAAAGGAAAGAAAGCTGCAAAAGTTGTTCTGTGAAAGCCAAGAACGTGGCTGAGGATGAAGATGAA
GAAGAGGATGATGAGGACGAGGATGACGACGACGACGAAGATGATGAAGATGATGATGATGAAGATGATGAGGAG
GAGGAAGAAGAGGAGGAGGAAGAGCCTGTCAAAGAAGCACCTGGAAGAACGAAAGAAGGAAATGGCCAAACAGAAA
GCAGCTCCTGAAGCCAAGAAACAGAAAGTGAAGGCACAGAACCGACTACGGCTTTCAATCTCTTTGTTGGAAAC
CTAAACTTTAACAAATCTGCTCCTGAATTAATAAACTGGTATCAGCGATGTTTTTGCTAAAAATGATCTTGCTGTT
GTGGATGTCAGAATTGGTATGACTAGGAAATTTGGTTATGTGGATTTTGAATCTGCTGAAGACCTGGAGAAAGCG
TTGGAACCTACTGGTTTGAAGTCTTTGGCAATGAAATTAACCTAGAGAAACCAAAGGAAAAGACAGTAAGAAA
GAGCGAGATGCGAGAACACTTTTGGCTAAAAATCTCCCTTACAAAGTCACTCAGGATGAATTGAAGAAGTGTTT
GAAGATGCTGCGGAGATCAGATTAGTCAGCAAGGATGGGAAAAGTAAAGGGATTGCTTATATTGAATTTAAGACA
GAAGCTGATGCAGAGAAAACCTTTGAAGAAAAGCAGGGAACAGAGATCGATGGGCGATCTATTTCCCTGTACTAT
ACTGGAGAGAAAGGTCAAAATCAAGACTATAGAGGTGGAAGAATAGCACTTGGAGTGGTGAATCAAAAACCTCTG
GTTTTAAGCAACCTCTCCTACAGTGCAACAGAAGAACTCTTCAGGAAGTATTTGAGAAAGCAACTTTTATCAAA
GTACCCCAAGAACCAAAATGGCAAATCTAAAGGGTATGCATTTATAGAGTTTGCTTCATTGGAAGACGCTAAAGAA
GCTTTAAATTCTGTATAATAAAAGGGAAATTGAGGGCAGAGCAATCAGGCTGGAGTTGCAAGGACCCAGGGGATCA
CCTAATGCCAGAAGCCAGCCATCCAAAACCTCTGTTTGTCAAAGGCCTGTCTGAGGATACCACTGAAGAGACATTA
AAGGAGTCATTTGACGGCTCCGTTCGGGCAAGGATAGTTACTGACCGGGAACCTGGGTCTCCAAAGGGTTTGGT
TTTGTAGACTTCAACAGTGAGGAGGATGCCAAGGAGGCCATGGAAGACGGTGAAATTGATGGAAATAAAGTTACC
TTGGACTGGGCCAAACCTAAGGGTGAAGGTGGCTTCGGGGTCTGTTGGTGGAGGCAGAGGCGGCTTTGGAGGACGA
GGTGGTGGTAGAGGAGGCCGAGGAGGATTTGGTGGCAGAGGCCGGGGAGGCTTTGGAGGGCAGGAGGCTTCCGA
GGAGGCAGAGGAGGAGGAGGTGACCACAAGCCACAAGGAAAGAAGACGAAGTTTGAATAGCTTCTGTCCCTCTGC
TTTCCCTTTTCCATTTGAAAGAAAGGACTCTGGGGTTTTTACTGTTACCTGATCAATGACAGAGCCTTCTGAGGA
CATTCCAAGACAGTATACAGTCCTGTGGTCTCCTTGAAATCCGTCTAGTTAACATTTCAAGGGCAATACCGTGT
TGGTTTTGACTGGATATTATATAAACTTTTTAAAGAGTTGAGTGATAGAGCTAACCTTATCTGTAAGTTTTGA
ATTTATATTGTTTCATCCCATGTACAAAACCATTTTTTCTAC

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FIGURE 62

MVKLAKAGKNQGDPKKMAPPPKEVEEDSEDEEMSEDEEDDSSGEEVVIPQKKGKKAAATSARKVVVSPTKKVAVA
TPAKKAAVTPGKKAAATPAKKTVTPAKAVTTPGKKGATPGKALVATPGKKGAAIPAKGAKNGKNAKKEDSDEEED
DDSEDEDEDEDEDEDEDEIEPAAMKAAAAAPASEDEDEDEDEDEDEDDDDDEEDDSEEEAMETTPAKGKKAQV
PVKAKNVAEDEDEEEDDEDEDDDDDEDEDEDDDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDEDE
TEPTTAFNLFVGNLNFNKSAPELKTGISDVFAKNDLAVVDVRIGMTRKFGYVDFESAEDLEKALELTGLKVFGNE
IKLEKPKGKDSKKERDARTLLAKNLPYKVTQDELKEVFEDAAEIRLVSKDGKSKGIAYIEFKTEADAETFEKQ
GTEIDGRSISLYYTGEKGQNQDYRGGKNSTWSGESKTLVLSNLSYSATEETLQEVFEKATFIKVPQNQNGKSKGY
AFIEFASFEDAKEALNSCNKREIEGRAIRLELQGPRGSPNARSQPSKTLFVKGLSEDTTEETLKESEFDGSVRARI
VTDRETGSSKGFVFDFNSEEDAKEAMEDGEIDGNKVTLDWAKPKGEGGFGGRGGGRGGFGGRGGGRGGGRGGFGG
RGRGGFGGRGGFRGGRGGGGDHKPQGGKTKFE

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FIGURE 63

CTCCCAAAGCAGAATTGCAGCTGCCGCCGCCACCTCCAGGCCACTATGCGCCTGGGGCTGCCCAGGAGCTT
CAGGCCAAGTTGGCAGAGATCGGAGCTCCGATCCAGGGTAATCGCGAGGAGCTGGTGGAGCGGCTGCAGAGCTAC
ACCCGCCAGACTGGCATCGTGCTGAATCGGCCGGTTTGTAGAGGGGAAGATGGGGACAAAGCCGCTCCACCTCCC
ATGTCGGCACAGCTCCCTGGAATTCCCATGCCACCACCACCTTTGGGACTCCCCCTCTGCAGCCTCCTCCGCCA
CACCACCTCCACCAGGCCTTGGCCTTGGCTTTCCTATGGGCCACCCACCAAATTTGGGGCCCCCGCCTCCT
GTGTGGGTGAGCCAGTGGCACTGTCAGAGGAGGAGCGGCTGAAGTTGGCTCAGCAGCAGGCGGCATTGCTG
TAGCAGGAGGAGCGTGCCAAGCAGCAGGAGATCATTGCTGAAGGAACATGAGCTCTTGGAGCAGCAGAAG
GGGAGCTGTGTTACTGGAGCAGGAACGACAGCAGGAGATTGCCAAGATGGGCACCCAGTCCCTCGGCCCCCCA
GACATGGGCCAGATTGGTGTGCGCACTCCTCTGGGTCTCGAGTAGCTGCTCCAGTGGGCCAGTGGGGCCC
CTACAGTTTTGCCCATGGGAGCCCCGTGTTCCCCGGCCTCGTGGTCCCCACCGCCCCCTGGAGATGAGAAC
GAGATGGATGACCCCTCTGTGGGCCCAAGATCCCCCAGGCTTTGGAGAAGATCCTGCAGCTGAAGGAGAGC
CAGGAAGAGATGAATTCTCAGCAGGAGGAAGAGGAAATGGAACAGATGCTCGCTCGTCCCTGGGCCAGTCA
GTCAGAGACTGAGGAGGACACAGTGTCCGTATCTAAAAGGAGAAAAACCGGAAGCGTAGGAACCGAAAGAAG
AGAAAAAGCCCCAGCGGTGCGAGGGGTGTCCTCTGAGAGCTCTGGGGACCGGGAGAAAGACTCAACCCGGTCC
TGIGGCTCTGATTCCCCAGCAGCTGATGTTGAGATTGAGTATGTGACTGAAGAACCTGAAATTTACGAGCCCAAC
TTTATCTTCTTTAAGAGGATCTTTGAGGCTTTTAAGCTCACTGATGATGTGAAGAAGGAGAAAGAGAAAGAGCCA
GAGAACTTGACAACTGGAGAACTCTGCAGCCCCCAAGAAGAAGGGATTGAAGAGGAGCACAAGGACAGTGAT
GATGACAGCAGTGATGACGAGCAGGAAAAGAAGCCAGAAGCCCCCAAGCTGTCCAAGAAGAAGTTGCGCCGAATG
AACCGCTTCACTGTGGCTGAACCTCAAGCAGCTGGTGGCTCGGCCCGATGTGCTGGAGATGCACGATGTGACAGCG
CAGGACCCTAAGCTCTTGGTTCACCTCAAGGCCACTCGGAACCTCTGTGCTGTGCCACGCCACTGGTGTTTTAAG
CGCAAATACCTGCAGGGCAAACGGGGCATTGAGAAGCCCCCTTCGAGCTGCCAGACTTCATCAAACGCACAGGC
ATCCAGGAGATGCGAGAGGCCCTGCAGGAGAAGGAAGAACAGAAGACCATGAAGTCAAAAATGCGAGAGAAAGTT
CGGCCTAAGATGGGCAAATTTGACATCGACTACCAGAACTGCATGATGCCTTCTTCAAGTGGCAGACCAAGCCA
AAGCTGACCATCCATGGGGACCTGTACTATGAGGGGAAGGAGTTGAGACACGACTGAAGGAGAAGAAGCCAGGA
GATCTGTCTGATGAGCTAAGGATTTCTTGGGGATGCCAGTAGGACCAAATGCCACAAGGTCCCTCCCCCATGG
CTGATTGCCATGCAGCGATATGGACCACCCCATCGTATCCCAACCTGAAAATCCCTGGGCTGAACCTCGCCCATC
CCTGAGAGCTGTTCTTTGGGTACCATGCTGGTGGCTGGGGCAAACCTCCAGTGGATGAGACTGGGAAACCGCTC
TATGGGGACGTGTTTGGAAACCAATGCTGCTGAATTTAGACCAAGACTGAGGAAGAAGAGATTGATCGGACCCCT
TGGGGGGAACCTGGAACCATCTGATGAAGAATCCTCAGAAGAAGAGGAAGAGGAAGAAGTGAAGACAAACCA
GATGAGACAGGCTTTATTACCCCTGCAGACAGTGGCCTTATCACTCCTGGAGGCTTTTCATCAGTGCCTGCTGGA
ATGGAGACCCCTGAACCTATTGAGCTGAGGAAGAAGAAGATTGAGGAGGCGATGGACGGAAGTGAGACACCTCAG
CTCTTCACTGTGTTGCCAGAGAAGAGAACAGCCACTGTTGGAGGGGCCATGATGGGATCAACCCACATTTATGAC
ATGTCCACGGTTATGAGCCGGAAGGGCCCGGCTCCTGAGCTGCAAGGTGTGGAAGTGGCGCTGGCGCCTGAAGAG
TTGGAGCTGGATCCTATGGCCATGACCCAGAAGTATGAGGAGCATGTGCGGGAGCAGCAGGCTCAAGTAGAGAAG
GAGGACTTCAGTGACATGGTGGCTGAGCACGCTGCCAAACAGAAGCAAAAAAACGGAAGCTCAGCCCCAGGAC
AGCCGTGGGGGCGAGCAAGAAATATAAGGAGTTCAAGTTTTAGGCTCCCCCTCACACTAGCCCTTTTTTTGGCCCTAC
GTCTGGATGCCTGGGCTTACACAAGAACCACCTCTCCCGCAGTTCCCAAGGACTTGTCAATTCATGTTCTTATT
TTAGACCTGTTTTGTAAATAAAGCTGTTTCCCAAGGAAAGAGATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 64

MAPGAAQELQAKLAEIGAPIQGNREELVERLQSYTRQTGIVLNRPVLRGEDGDKAAPPPMSAQLPGIPMPPPPPLG
LPPLQPPPPPPPPPPGLGLGFPMHPPNLGPPPPPLRVGEPVALSEEERLKLAQQQAALLMQQEERAKQQGDHSLK
EHELLEQQKRAAVLLEQERQQEIAKMGTVPVRPPQDMGQIGVRTPLGPRVAAPVGPVGPTPTVLPMGAPVPRPRG
PPPPPGDENREMDPSVGPKIPQALEKILQLKESRQEEMNSQEEEEEMETDARSSLGQSASETEEDTVSVSKKEK
NRKRRNRKKKKKKPQVRGVSSSESGDREKDSTRSGSDSPAADVEIEYVTEPEIYEPNFIFFKRIFEAFKLTD
VKKEKEKEPEKLDKLENSAAPKKKGFEHHKSDDDSSDDEQEKKEAPKLSKKKLRRMNRTVAELKQLVARPD
VVEMHDVTAQDPKLLVHLKATRNSVPVPRHWCFFKRKYLGKRGIEKPPFELPDFIKRTGIQEMREALQEKEEQKT
MKS KMREKVRPKMGKIDIDYQKLHDAFFKWQTKPKLTIHGDLYYEGKEFETRLKEKKPGDLSDELRLSLGMPVGP
NAHKVPPPWLIAMQRYGPPPSYPNLKIPGLNSPIPESCSFGYHAGGWGKPPVDETGKPLYGDVFGTNAAEFQTKT
EEEEIDRTPWGELEPSDEESSEEEEEESDEDKPDETGFI TPADSGLI TPGGFSSVPAGMETPELIELRKKKIEE
AMDGSETPQLFTVLPEKRTATVGGAMMGSTHIYDMSTVMSRKGPAPELQGVEVALAPEELELDPMAMTQKYEEHV
REQQAQVEKEDFSDMVAEHAAKQKQKKRKAQPQDSRGGSKKYKEFKF

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FIGURE 65

CGAAAAAAGAGGGGAAGAGTATTAAAGACCATTCTGGCTGGGCAGGGCACTCTCAGCAGCTCAACTGCCCAGCG
TGACCAGTGGCCACCTCTGCAGTGTCTTCCACAACCTGGTCTTGACTCGTCTGCTGAACAAATCCTCTGACCTCA
GGCCGGCTGTGAACGTAGTTCCCTGAGAGATAGCAAACATGCCCAACAGTGAGCCCGCATCTCTGCTGGAGCTGTT
CAACAGCATCGCCACACAAGGGGAGCTCGTAAGGTCCCTCAAAGCGGGGAAATGCGTCAAAGGATGAAATTGATTCT
TGCAGTAAAGATGTTGGTGTTCATTAAAAATGAGCTACAAAGCTGCCGCGGGGAGGATTACAAGGCTGACTGTCC
TCCAGGGAACCCAGCACCTACCAGTAATCATGGCCAGATGCCACAGAAGCTGAAGAGGATTTTGTGGACCCATG
GACAGTACAGACAAGCAGTGCAAAAGGCATAGACTACGATAAGCTCATTGTTGCGTTTGAAGTAGTAAATTTGA
CAAAGAGCTAATAAACCGAATAGAGAGAGCCACCGGCCAAAGACCACACCACTTCTGCGCAGAGGCATCTTCTT
CTCACACAGAGATATGAATCAGGTTCTTGATGCCTATGAAAATAAGAAGCCATTTTATCTGTACACGGGCCGGGG
CCCCTCTTCTGAAGCAATGCATGTAGGTACCTCATTCCATTTATTTTACAAAGTGGCTCCAGGATGTATTTAA
CGTGCCCTTGGTCATCCAGATGACGGATGACGAGAAGTATCTGTGGAAGGACCTGACCCTGGACCAGGCCTATGG
CGATGCTGTTGAGAATGCCAAGGACATCATCGCCTGTGGCTTTGACATCAACAAGACTTTTCATATTCTCTGACCT
GGACTACATGGGGATGAGCTCAGGTTTCTACAAAATGTGGTGAAGATTCAAAGCATGTTACCTTCAACCAAGT
GAAAGGCATTTTCGGCTTCACTGACAGCGACTGCATTGGGAAGATCAGTTTTCTGCCATCCAGGCTGCTCCCTC
CTTCAGCAACTCATTCCACAGATCTTCCGAGACAGGACGGATATCCAGTGCCTTATCCCATGTGCCATTGACCA
GGATCCTTACTTTAGAAATGACAAGGGACGTCGCCCCAGGATCGGCTATCCTAAACCAGCCCTGTTGCACTCCAC
CTTCTTCCCAGCCCTGCAGGGCGCCCAGACCAAAATGAGTGCCAGCGACCCAACTCCTCCATCTTCTCACCGA
CACGGCCAAGCAGATCAAAACCAAGGTCAATAAGCATGCGTTTTCTGGAGGGAGAGACACCATCGAGGAGCACAG
GCAGTTTGGGGGCAACTGTGATGTGGACGTGTCTTTCATGTACCTGACCTTCTTCTCGAGGACGACGACAAGCT
CGAGCAGATCAGGAAGGATTACACCAGCGGAGCCATGCTCACCAGGTGAGCTCAAGAAGGCACTCATAGAGTTCT
GCAGCCCTTGATCGCAGAGCACCAGGCCCGGCGCAAGGAGGTACGGATGAGATAGTGAAAGAGTTTCATGACTCC
CCGGAAGCTGTCTTCGACTTTCAGTAGCACTCGTTTTACATATGCTTATAAAAGAAGTGATGTATCAGTAATGT
ATCAATAATCCCAGCCCAGTCAAAGCACCGCCACCTGTAGGCTTCTGTCTCATGGTAATTACTGGGCCTGGCCTC
TGTAAGCCTGTGTATGTTATCAATACTGTTTCTTCTGTGAGTTCCATTATTTCTATCTCTTATGGGCAAAGCAT
TGTTGGGTAATTGGTGCTGGCTAACATTGCATGGTCGGATAGAGAAGTCCAGCTGTGAGTCTCTCCCAAAGCAGC
CCCACAGTGGAGCCTTCGGCTGGAAGTCCATGGGCCACCCTGTTCTTGTCCATGGAGGACTTCCGAGGGTTCCAA
GTATACTCTTAAGACCCACTCTGTTTAAAAATATATATTCTATGTATGCGTATATGGAATTGAAATGTCATTATT
GTAACCTAGAAAGTGCTTTGAAATATTGATGTGGGGAGGTTTATTGAGCACAAAGATGTATTTAGCCCCATGCCCC
CTCCCCAAAAAGAAATTGATAAGTAAAAGCTTTCGTTATACATTTGACTAAGAAATCACCCAGCTTTAAAGCTGCTT
TTAACAATGAAGATTGAACAGAGTTTCAAGCAATTTTGATTAAATTAAGACTTGGGGGTGAAACTTTCCAGTTTACT
GAACTCCAGACCATGCATGTAGTCCACTCCAGAAATCATGCTCGCTTCCCTTGGCACACCAAGTGTCTCTGCCA
AATGACCCTAGACCCTCTGTCTGCAGAGTCAGGGTGGCTTTTCCCCTGACTGTGTCCGATGCCAAGGAGTCCTG
GCCTCCGCAGATGCTTCATTTTGACCCTTGGCTGCAGTGAAGTCAGCACAGAGCAGTGGCCTGGCTGTGTCTG
GACGGGTGGACTTAGCTAGGGAGAAAGTCGAGGCAGCAGCCCTCGAGGCCCTCACAGATGTCTAGGCAGGCCTCA
TTTCATCACGCAGCATGTGCAGGCCTGGAAGAGCAAAGCCAAATCTCAGGGAAGTCCTTGGTTGATGTATCTGGG
TCTCTCTGGAGCACTCTGCCCTCCTGTACCCAGTAGAGTAAATAAACTTCTTGGCTCCTAAAAA

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FIGURE 66

MPNSEPASLLELFNSIATQGELVRSLKAGNASKDEIDSAVKMLVSLKMSYKAAAGEDYKADCPPGNPAPTSNHGP
DATEAEEDFVDPWTVQTSSAKGIDYDKLIVRFGSSKIDKELINRIERATGQRPHHFLRRGIFFSHRDMNQVLDAY
ENKKPFYLYTGRGPSSEAMHVGHLPFIFTKWLQDVFNVLVIQMTDDEKYLWKDLTLDQAYGDAVENAKDIIAC
GFDINKTFIFSDLDYMGMSGIFYKNVVKIQKHVTFNQVKGIFGFTDSDCIGKISFPAIQAAPSFNSFPQIFRDR
TDIQCLIPCAIDQDPYFRMTRDVAPRIGYPKPALLHSTFFPALQGAQTKMSASDPNSSIFLTD TAKQIKTKVNBH
AFSGGRDTIEEHRQFGGNCDDVDSFMYLTFFLEDDDKLEQIRKDYTS GAMLTGELKKALIEVLQPLIAEHQARRK
EVTDEIVKEFMTPRKLSFDFQ

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FIGURE 67

GCGGAGCGTGTGAGCAGTACTGCGGCCTCCTCTCCTCTCCTAACCTCGCTCTCGCGGCCTACCTTTACCCGCCCG
CCTGCTCGGCGACCAGCGGGGATCCTCCCCAGCCGCAAGTCCACGAAGAAAGCAACGAATGAAAATTATGAAGA
CAACGAGAAGTCAGACTCCTCCGGGTCGCGCTCCAGCTGCTTCGGCTTCGTCGCCTACTCTGTGAACTCCGGGGA
GAGATCTCGAGTCAAGATTAAGACCTTAACCCACCAACCTGCCTGTTCCGGACACCCCCGGCCGGCCGCTGTCT
GTCCCCCTTCTCCATCGCCCTCTCCCAGAAAGCTCCGGTGCTTGGACCAGCTAGAGTCTGAGAAAGAGGAGAGGCG
CGAACGCCACTCCAAAAAGAGAAGGGTTAAAGAGGGCAACCCTAACGATACGCTTGACTTTCTGTGGCTGGGAAC
ACCTTCCACCAATGACCACCTCAGCAAGTTCCCACTTAAATAAAGGCATCAAGCAGGTGTACATGTCCCTGCCTCA
GGGTGAGAAAGTCCAGGCCATGTATATCTGGATCGATGGTACTGGAGAAGGACTGCGCTGCAAGACCCGGACCCT
GGACAGTGAGCCCAAGTGTGTGGAAGAGTTGCCTGAAGTGAATTTTCGATGGCTCCAGTACTTTACAGTCTGAGGG
TTCCAACAGTGACATGTATCTCGTGCCTGCTGCCATGTTTCGGGACCCCTTCCGTAAGGACCCTAACAAAGCTGGT
GTTATGTGAAGTTTTCAAGTACAATCGAAGGCCTGCAGAGACCAATTTGAGGCACACCTGTAAACGGATAATGGA
CATGGTGAGCAACCAGCACCCCTGGTTTGGCATGGAGCAGGAGTATACCTCATGGGGACAGATGGGCACCCCTT
TGGTTGGCCTTCCAACGGCTTCCAGGGCCCCAGGGTCCATATTACTGTGGTGTGGGAGCAGACAGAGCCTATGG
CAGGGACATCGTGGAGGCCATTACCGGGCTGCTTGTATGCTGGAGTCAAGATTGCGGGGACTAATGCCGAGGT
CATGCCTGCCAGTGGGAATTTAGATTGGACCTTGTGAAGGAATCAGCATGGGAGATCATCTCTGGGTGGCCCCG
TTTCATCTTGCATCGTGTGTGTGAAGACTTTGGAGTGATAGCAACCTTTGATCCTAAGCCATTCTCTGGGAAGT
GAATGGTGCAGGCTGCCATACCAACTTCAGCACCAAGGCCATGCGGGAGGAGAATGGTCTGAAGTACATCGAGGA
GGCCATTGAGAACTAAGCAAGCGGCACCAGTACCACATCCGTGCCTATGATCCCAAGGGAGGCCTGGACAATGC
CCGACGTCTAACTGGATTCCATGAAACCTCCAACATCAACGACTTTTCTGCTGGTGTAGCCAATCGTAGCGCCAG
CATACGATTCCCCGGACTGTTGGCCAGGAGAAGAAGGGTTACTTTGAAGATCGTCGCCCCCTCTGCCAACTGCGA
CCCCTTTTCGGTGACAGAAGCCCTCATCCGCACGTGTCTTCTCAATGAAACCGGCGATGAGCCCTTCCAGTACAA
AAATTAAGTGGACTAGACCTCCAGCTGTTGAGCCCCCTCCTAGTTCTTCATCCCACTCCAACCTTCTCCCCCTCTCC
CAGTTGTCCCGATTGTAACCTCAAAGGGTGAATATCAAGGTCGTTTTTTTTTTCATTCCATGTGCCCAGTTAATCTTG
CTTTCTTTGTTTGGCTGGGATAGAGGGTCAAGTTATTAATTTCTTCACACCTACCCTCCTTTTTTTTCCCTATCA
CTGAAGCTTTTTTAGTGCATTAGTGGGGAGGAGGGTGGGGAGACATAACCACTGCTTCCATTTAATGGGGTGCACC
TGTTCAATAGGCGTAGCTATCCGGACAGAGCACGTTTGCAGAAGGGGGACTCTTCTCCAGGTAGCTGAAAGGGG
AAGACCTGACGTACTCTGGTTAGGTTAGGACTTGCCCTCGTGGTGGAACTTTTCTTAAAAAGTTATAACCAACT
TTTCTATTAAAAAGTGGGAATTAGGAGAGAAGGTAGGGGTGGGAATCAGAGAGAATGGCTTTGGTCTCTTGCTTG
TGGGACTAGCCTGGCTTGGGACTAAATGCCCTGCTCTGAACACGAAGCTTAGTATAAACTGATGGATATCCCTAC
CTTGAAAGAAGAAAAGGTTCTTACTGCTTGGTCTTGATTTATCACACAAAGCAGAATAGTATTTTTATATTTAA
ATGTAAAGACAAAAAACTATATGTATGGTTTTGTGGATTATGTGTGTTTTTGCTAAAGGAAAAAACCATCCAGGTC
ACGGGGCACCAAATTTGAGACAAATAGTCGGATTAGAAATAAAGCATCTCATTTTGAGTAGAGAGCAAGGGGAAGT
GGTTCTTAGATGGTGATCTGGGATTAGGCCCTCAAGACCCTTTTGGGTTTTCTGCCCTGCCACCCTCTGGAGAAG
GTGGGCACTGGATTAGTTAACAGACGACACGTTACTAGCAGTCACCTTGATCTCCGTGGCTTTGGTTTTAAAGACA
CACTTGTCCACATAGGTTTAGAGATAAGAGTTGGCTGTTCAACTTGAGCATGTTACTGACAGAGGGGGTATTGGG
GTTATTTTCTGGTAGGAATAGCATGTCATAAAGCAGGCCCTTTTGATATTAAATTTTTTAAAAAGCAAAATTATA
GAAGTTTAGATTTTAATCAAATTTGTAGGGTTTCTAGGTAATTTTTACAGAATTGCTTGTGTTGCTTCAACTGTCT
CCTACCTCTGCTCTTGAGGAGATGGGGACAGGGCTGGAGTCAAACACTTGTAATTTTGTATCTTGATGTCTTT
GTTAAGACTGCTGAAGAATTATTTTTTTCTTTTATAATAAGGAATAAACCCACCTTTATTCCTTCATTTTCATC
TACCATTTTCTGGTCTTGTTGTTGGCTGTGGCAGGCCAGCTGTGGTTTTCTTTTGCCATGACAACCTCTAATTGC
CATGTACAGTATGTTCAAAGTCAAATAACTCCTCATTGTAAACAACTGTGTAAGTCCCCAAAGCAGCACTTATA
AATCAGCCTAACATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 68

MTTSASSHLNKGIKQVYMSLPQGEKVQAMYIWIDGTGEGLRCKTRTLDSEPKCVEELPEWNFDGSSTLQSEGSNS
DMYLVPAAMFRDPFRKDPNKLVLCEVFKYNRRPAETNLRHTCKRIMDMVSNQHPWFGMEQEYITLMGTDGHFFGWP
SNGFPGPQGPPYYCGVGADRAYGRDIVEAHYRACLYAGVKIAGTNAEVMQAQWFEQIGPCEGISMGDHLWVARFIL
HRVCEDFGVIATFDPKPIPGNWNAGCHTNFSTKAMREENGLKYIEEAIEKLSKRHQYHIRAYDPKGGLDNARRL
TGFHETSNINDFSAGVANRSASIRIPRTVGQEKKGYPEDRRPSANCDPFSVTEALIRTCLLNETGDEFFQYKN

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FIGURE 69

TGCTGCAGCCGCTGCCGCCGATTCCGGATCTCATTGCCACGCGCCCCGACGACCGCCCGACGTGCATTCCCGAT
TCCTTTTGGTTCCAAGTCCAATATGGCAACTCTAAAGGATCAGCTGATTTATAATCTTCTAAAGGAAGAACAGAC
CCCCCAGAATAAGATTACAGTTGTTGGGGTTGGTGCTGTTGGCATGGCCTGTGCCATCAGTATCTTAATGAAGGA
CTTGGCAGATGAACTTGCTCTTGTGATGTCATCGAAGACAAATTGAAGGGAGAGATGATGGATCTCCAACATGG
CTTTTCCTTAGAACACCAAAGATTGTCTCTGGCAAAGACTATAATGTAAGTGCAACTCCAAGCTGGTCAT
ACGGCTGGGGCACGTGAGCAAGAGGGAGAAAGCCGTCTTAATTTGGTCCAGCGTAACGTGAACATATTTAA
ATCATTCCCTAATGTTGTAAATACAGCCCGAACTGCAAGTTGCTTATTGTTTCAAATCCAGTGGATATCTT
ACCTACGTGGCTTGGAAGATAAGTGGTTTTCCCAAAACCGTGTTATTGGAAAGTGGTTGCAATCTGGATTGAGC
ATTCCGTTACCTGATGGGGGAAAGGCTGGGAGTTACCCATTAAAGCTGTCATGGGTGGGTCCTTGGGGAACA
AGATTCCAGTGTGCCTGTATGGAGTGAATGAATGTTGCTGGTGTCTCTCTGAAGACTCTGCACCCAGATTT
ACTGATAAAGATAAGGAACAGTGGAAAGAGGTTACAAGCAGGTGGTTGAGAGTGCTTATGAGGTGATCAA
AAAGGCTACACATCCTGGGCTATTGGACTCTCTGTAGCAGATTGGCAGAGAGTATAATGAAGAATCTTAG
GGTGCACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCTTCCTTAGTGTTCTTG
TTTTGGGACAGAATGGAATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCCGTTTGAAGAA
ACTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTATATCATTTCACTGT
CTAGGCTACAACAGGATTCTAGGTGGAGGTTGTGCATGTTGTCCTTTTTATCTGATCTGTGATTAAAGCAGTAAT
ATTTAAGATGGACTGGGAAAAACATCAACTCCTGAAGTTAGAAATAAGAATGGTTTGTAATAATCCACAGCTATA
TCCTGATGCTGGATGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATAGTTCTGCCACCTCTGACGC
ACCACTGCCAATGCTGTACGTACTGCATTTGCCCTTGAGCCAGGTGGATGTTTACCGTGTGTTATATAACTTCC
TGGCTCCTTCACTGAACATGCCTAGTCCAACATTTTTCCCAAGTGAAGTACATCCTGGGATCCAGTGTATAAATC
CAATATCATGTCTTGTGCATAATTCTTCAAAGGATCTTATTTTGTGAACTATATCAGTAGTGATACATTACCATA
TAATGTAAAAAGATCTACATACAAACAATGCAACCAACTATCCAAGTGTATACCAACTAAAACCCCCAATAAAC
CTTGAACAGTG

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FIGURE 70

MATLKDQLIYNLLKEEQTPQNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLKGEMMDLQHGSFLRTP
KIVSGKDYNVTANSKLVIIITAGARQQEGESRLNLVQRNVNIFKFIIPNVVKYSPNCKLLIVSNPVDILTYVAWKI
SGFPKNRVIGSGCNLDSARFRYLMGERLGVHPLSCHGWVLGEHGDSSVPVWSGMNVAGVSLKTLHPDLGTDKDKE
QWKEVHKQVVESAYEVIKLGYSWAIGLSVADLAESIMKNLRRVHPVSTMIKGLYGIKDDVFLSVPCILGQNGI
SDLVKVTLTSEEEARLKKSADTLWGIQKELQF

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FIGURE 71

CCGCAGCGCCGGAGTCAAACGGTTCCCGGCCAGTCCCGTCCTGCAGCAGTCTGCCTCCTCTTTCAACATGACAG
ATGCCGCTGTGTCCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGCAGCCATCTCCAAGACGGCGGTAGCGC
CCATCGAGCGGGTCAAGCTGCTGCTGCAGGTGCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAAAG
GCATTATAGACTGCGTGGTCCGTATTCCCAAGGAGCAGGGAGTTCTGTCCTTCTGGCGCGGTAACCTGGCCAATG
TCATCAGATACTTCCCCACCCAGGCTCTTAACTTCGCCTTCAAAGATAAAATACAAGCAGATCTTCCTGGGTGGTG
TGGACAAGAGAACCCAGTTTTTGGCGCTACTTTGCAGGGAATCTGGCATCGGGTGGTGCCGCAGGGGCCACATCCC
TGTGTTTTGTGTACCCTCTTGATTTTGGCCGTACCCGTCTAGCAGCTGATGTGGGTAAAGCTGGAGCTGAAAGGG
AATTCCGAGGCCTCGGTGACTGCCTGGTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTTTA
ACGTGTCTGTGCAGGGTATTATCATCTACCGAGCCGCCTACTTCGGTATCTATGACACTGCAAAGGGAATGCTTC
CGGATCCCAAGAACACTCACATCGTCATCAGCTGGATGATCGCACAGACTGTCACTGCTGTTGCCGGGTTGACTT
CCTATCCATTTGACACCGTTTCGCCGCCGCATGATGATGCAGTCAGGGCGCAAAGGAAGTACATCATGTACACAG
GCACGCTTGACTGCTGGCGGAAGATTGCTCGTGATGAAGGAGGCAAAGCTTTTTTCAAGGGTGCATGGTCCAATG
TTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGCTTGTATGATGAAATCAAGAAGTACACATTAAGTTATTTCTT
AGGATTTTTTCCCCCTGTGAACAGGCATGTTGTATTCTATAACACAATCTTGAGCATTCTTGACAGACTCCTGGCT
GTCAGTTTCTCAGTGGCAACTACTTTACTGGTTGAAAATGGGAAGCAATAATATTCATCTGACCAGTTTTCTCT
AAAGCCATTTCCATGATGATGATGATGGGACTCAATTGTATTTTTTATTTTCAGTCACTCCTGATAAATAACAAAT
TTGGAGAAATAAAAATATCTAAAT

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FIGURE 72

MTDAAVSFAKDFLAGGVAAAI SKTAVAPI ERVKLLLQVQHASKQITADKQYKGI IDCVV RIPKEQGVLSFWRGNL
ANVIRYFPTQALNFAFKDKYKQIFLGGVDKRTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKAGA
EREFRLGDCLVKIYKSDGIKGLYQGFNVSVQGI I IYRAAYFGIYDTAKGMLPDPKNTHIVISWMIAQTVTAVAG
LTSYPFDIVRRRMMMQSGRKGTDIMYTGTLD CWRKIARDEGGKAFFKGAWSNVLRGMGGA FVLVLYDEIKKYT

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FIGURE 73

AGTATGTGTGGTTGGGGAATTCATGTGGAGGTCAGAGTGGGAAGCAGGTGTGAGAGGGTCCAGCAGAAGGAAACAT
GGCTGCCAAAGTGTTTGAGTCCATTGGCAAGTTTGGCCTGGCCTTAGCTGTTGCAGGAGGCGTGGTGAACCTCTGC
CTTATATAATGTGGATGCTGGGACAGAGCTGTCATCTTTGACCGATTCCGTGGAGTGCAGGACATTGTGGTAGG
GGAAGGGACTCATTCTCATCCCGTGGGTACAGAAACCAATTATCTTTGACTGCCGTTCTCGACCACGTAATGT
GCCAGTCATCACTGGTAGCAAAGATTTACAGAATGTCAACATCACACTGCGCATCCTCTTCCGGCCTGTCGCCAG
CCAGCTTCCTCGCATCTTACCAGCATCGGAGAGGACTATGATGAGCGTGTGCTGCCGTCCATCACAACCTGAGAT
CCTCAAGTCAGTGGTGGCTCGCTTTGATGCTGGAGAACTAATCACCCAGAGAGAGCTGGTCTCCAGGCAGGTGAG
CGACGACCTTACAGAGCGAGCCGCCACCTTTGGGCTCATCTGGATGACGTGTCTTGACACATCTGACCTTCGG
GAAGGAGTTACAGAAGCGGTGGAAGCCAAACAGGTGGCTCAGCAGGAAGCAGAGAGGGGCCAGATTTGTGGTGG
AAAGGCTGAGCAACAGAAAAAGGCGGCCATCATCTCTGCTGAGGGCGACTCCAAGGCAGCTGAGCTGATTGCCAA
CTCACTGGCCACTGCAGGGGATGGCCTGATCGAGCTGCGCAAGCTGGAAGCTGCAGAGGACATCGCGTACCAGCT
CTCACGCTCTCGGAACATCACCTACCTGCCAGCGGGGCGAGTCCGTGCTCCTCCAGCTGCCCCAGTGAAGGGCCAC
CCTGCCTGCACCTCCGCGGGCTGACTGGGCCACAGCCCCGATGATTCTTAACACAGCCTTCCTTCTGCTCCCACC
CCAGAAATCACTGTGAAATTTTCATGATTGGCTTAAAGTGAAGGAAATAAAGGTAAAATCACTTCAGATCTCTAAT
TAGTCTATCAAATGAAACTCTTTTATTCTTCTCACATCCATCTACTTTTTTATCCACCTCCCTACCAAAAATTGC
CAAGTGCCTATGCAAACCAGCTTTAGGTCCCAATTCGGGGCCTGCTGGAGTTCGGGCTGGGCACCAGCATTGCG
CAGCACGCAGGCGGGGCGAGTATGTGATGGACTGGGGAGCACAGGTGTCTGCCTAGATCCACGTGTGGCCTCCGTC
CTGTCACTGATGGAAGGTTTGGCGATGAGGGCATGTGCGGCTGAACTGAGAAGGCAGGCCTCCGTCTTCCCAGCG
GTTCTGTGCAGATGCTGCTGAAGAGAGGTGCCGGGGAGGGGCAGAGAGGAAGTGGTCTGTCTGTTACCATAAGT
CTGATTCTCTTTAACTGTGTGACCAGCGGAAACAGGTGTGTGTGAACTGGGCACAGATTGAAGAATCTGCCCCCTG
TTGAGGTGGGTGGGCCTGACTGTTGCCCCCAGGGTCCTAAAACCTGGATGGACTTGTATAGTGAGAGAGGAGGC
CTGGACCGAGATGTGAGTCCTGTTGAAGACTTCCTCTCTACCCCCACCTTGGTCCCTCTCAGATACCCAGTGGA
ATTCCAACCTGAAGGATTGCATCCTGCTGGGGCTGAACATGCCTGCCAAAGACGTGTCCGACCTACGTTCTCTGGC
CCCCCTCGTTCAGAGACTGCCCTTCTCACGGGCTCTATGCCTGCACTGGGAAGGAAACAAATGTGTATAAACTGCT
GTCAATAATGACACCCAGACCTTCC

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FIGURE 74

MAAKVFESIGKFGALAVAGGVVNSALYNVDAGHRAVIFDRFRGVQDIVVGEGTHFLIPWVQKPIIFDCRSRPRN
VPVITGSKDLQNVNITLRILFRPVASQLPRIFTSIGEDYDERVLP SITTEILKSVVARFDAGELITQRELVSRQV
SDDLTERAATFGLILDDVSLTHLTFGKEFTEAVEAKQVAQQEAERARFVVEKAEQQKAAIISAEGDSKAAELIA
NSLATAGDGLIELRKLEAAEDIA YQLSRSRNITYLPAGQSVLLQLPQ

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FIGURE 75

GGCACGAGGGGAGCGCTTGTGTTGCTGCCTCGTACTCCTCCATTTATCCGCCATGATAAGTGCCAGCCGAGCTGCA
ACAGCCCGTCTCGTGGGCGCCGACGCTCCCGGGGCCCTACGGCCGCCGCCACCAGGATAGCTGGAATGGCCTT
AGTCATGAGGCTTTTAGACTTGTTCAGGCGGGATTATGCATCAGAAGCAATCAAGGGAGCAGTTGTTGGTATT
GATTTGGGTACTACCAACTCCTGCGTGGCAGTTATGGAAGGTAAACGAGCAAAGGTGCTGGAGAATGCCGAAGGT
GAACCAACCCCTTCAGTTGTGGCCTTTACAGCAGATGGTGAGCGACTTGTGGGAATGCCGGCCAAGCGACAG
ACCAACCCAAACAATACATTTTATGCTACCAAGCGTCTCATTGGCCGGCGATATGATGATCCTGAAGTA
AAGACATTAAAAATGTTCCCTTTAAATTTGTCGGTGCCTCCAATGGTGATGCCTGGGTTGAGGCTCATGGG
GATTGTATTCTCCGAGTCAGATTGGAGCATTGTGTGATGAAGATGAAAGAGACTGCAGAAAATTACTTGGGG
ACAGCAAAAAATGCTGTGATCACAGTCCCAGCTTATTTCAATGACTCGCAGAGACAGGCCACTAAAGATGCT
AGATATCTGGACTGAATGTGCTTCGGGTGATTAAATGAGCCACAGCTGCTGCTCTTGCTATGGTCTAGAC
GAGAAGACAAAGTCATTGCTGTATATGATTTAGGTGGTGGAACTTTTGATATTTCTATCCTGGAAATTCAG
GAGTATTTGAGGTGAAATCCACAAATGGGGATACCTTCTTAGGTGGGGAAGACTTTGACCAGGCCCTTGCTA
ACATTGTGAAGGAGTTCAAGAGAGAGACAGGGGTTGATTTGACTAAAGACAACATGGCACTTCAGAGGGTA
GAAGCTGCTGAAAAGGCTAAGTGTGAAGTCTCCTCATCTGTGCAGACTGACATCAATTTGCCCTATCTTACA
ATGGATTCTTCTGGACCCAAGCATTGTAATATGAAGTTGACCCGTGCTCAATTTGAAGGGATTGTCAGTATCTA
ATCAGAAGGACTATCGCTCCATGCCAAAAGCTATGCAAGATGCAGAAGTCAGCAAGAGTGACATAGGAGAAGTG
ATTCTTGTGGGTGGCATGACTAGGATGCCAAGGTTTACGAGACTGTACAGGATCTTTTGGCAGAGCCCCAAGT
AAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGAGCTGCCATTGAGGAGGTGTGTTGGCCGGCGATGTCAG
GATGTGCTGCTCCTTGATGTCACTCCCCTGTCTCTGGGTATTGAACTCTAGGAGGTGTCTTTACCAAACCTTATT
AATAGGAATACCACTATTCCAACCAAGAAGAGCCAGGTATTCTCTACTGCCGCTGATGGTCAAACGCAAGTGGA
ATTAAGTGTGTCAGGGTGAAAGAGAGATGGCTGGAGACAACAACTCCTTGACAGTTTACTTTGATTGGAATT
CCACCAGCCCCCTCGTGGAGTTCCTCAGATTGAAGTTACATTTGACATTGATGCCAATGGGATAGTACATGTTTCT
GCTAAAGATAAAGGCACAGGACGTGAGCAGCAGATTGTAATCCAGTCTTCTGGTGGATTAAGCAAAGATGATATT
GAAAATATGGTTAAAAATGCAGAGAAATATGCTGAAGAAGACCGGCGAAAGAAGGAACGAGTTGAAGCAGTTAAT
ATGGCTGAAGGAATCATTACGACACAGAAACCAAGATGGAAGAATTCAAGGACCAATTACCTGCTGATGAGTGC
AACAAGCTGAAAGAAGAGATTTCCAAAATGAGGGAGCTCCTGGCTAGAAAAGACAGCGAAACAGGAGAAAATATT
AGACAGGCAGCATCCTCTCTTCAGCAGGCATCATTGAAGCTGTTCGAAATGGCATACAAAAGATGGCATCTGAG
CGAGAAGGCTCTGGAAGTTCTGGCACTGGGGAACAAAAGGAAGATCAAAAGGAGGAAAAACAGTAATAATAGCAG
AAATTTTGAAGCCAGAAGGACAACATATGAAGCTTAGGAGTGAAGAGACTTCCTGAGCAGAAATGGGCGAACTTC
AGTCTTTTTACTGTGTTTTTGCAGTATTCTATATATAATTTCCCTAATTTGTAAATTTAGTGACCATTAGCTAGT
GATCATTTAATGGACAGTGATTCTAACAGTATAAAGTTTACAAATATTCTATGTCCCTAGCCTGTCAATTTTTCAGC
TGCATGTAAAGGAGGTAGGATGAATTGATCATTATAAAGATTTAACTATTTTATGCTGAAGTGACCATATTTTC
AAGGGGTGAAACCATCTCGCACACAGCAATGAAGGTAGTCATCCATAGACTTGAAATGAGACCACATATGGGGAT
GAGATCCTTCTAGTTAGCCTAGTACTGCTGTACTGGCCTGTATGTACATGGGGTCTTCAACTGAGGCCTTGCAA
GTCAAGCTGGCTGTGCCATGTTTGTAGATGGGGCAGAGGAATCTAGAACAATGGGAACTTAGCTATTTATATTA
GGTACAGCTATTAAACAAGGTAGGAATGAGGCTAGACCTTTAACTTCCCTAAGGCATACTTTTCTAGCTACCTT
CTGCCCTGTGTCTGGCACCTACATCCTTGATGATTGTTCTCTTACCCATTCTGGAATTTTTTTTTTTTTTAAATA
AATACAGAAAGCATCTTGAAAAA

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FIGURE 76

MISASRAAAARLVGAAASRGPTAARHQDSWNGLSHEAFRLVSRRDYASEAIKGAVVGIDLGTTNSCVAVMEGKRA
KVLNAEGARTTPSVVAFTADGERLVGMPAKRQAVTNPNNTFYATKRLIGRRYDDPEVQKDIKNVPFKIVRASNG
DAWVEAHGKLYSPSQIGAFVLMKMKETAENYLGRTAKNAVITVPAYFNDSQRQATKDAGQISGLNVLRVINEPTA
AALAYGLDKSEDKVIAVYDLGGGTFDISILEIQKGVFEVKSTNGDTFLGGEDFDQALLRHIVKEFKRETGVDLTK
DNMALQRVREAAEKAKCELSSSVQTDINLPYLTMDSSGPKHLNMKLTRAQFEGIVTDLIRRTIAPCQKAMQDAEV
SKSDIGEVIILVGGMTRMPKVQQTVDLFGRAPSKAVNPDEAVAIGAAIQGGVLAGDVTDVLLLDVTPLSLGIETL
GGVFTKLINRNTTIPTKKSQVFSTAADGQTQVEIKVCQGEREMAGDNKLLGQFTLIGIPPAPRGVPQIEVTFDID
ANGIVHVSADKGTGREQQIVIQSSGGLSKDDIENMVKNAEKYAEEDRRKKERVEAVNMAEGIIHDTETKMEEFK
DQLPADECNKLKEEISKMRELLARKDSETGENIRQAASSLQQASLKLFEKAYKKMASEREGSGSSGTGEQKEDQK
EEKQ

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FIGURE 77

GGCACGAGGGGAGCGCTTGTTTGCTGCCTCGTACTCCTCCATTTATCCGCCATGATAAGTGCCAGCCGAGCTGCA
GCAGCCCGTCTCGTGGGCGCCGACGCTCCCGGGGGCCCTACGGCCGCCGCCACCAGGATAGCTGGAATGGCCTT
AGTCATGAGGCTTTTAGACTTGTTTCAAGGCGGGATTATGCATCAGAAGCAATCAAGGGAGCAGTTGTTGGTATT
GATTTGGGTACTACCAACTCCTGCGTGGCAGTTATGGAAGGTAAACGAGCAAAGGTGCTGGAGAATGCCGAAGGT
GCCAGAACCACCCCTTCAGTTGTGGCCTTTACAGCAGATGGTGAGCGACTTGTTGGAATGCCGGCCAAGCGACAG
GCTGTACCAACCCAAACAATACATTTTATGCTACCAAGCGTCTCATTGGCCGGCGATATGATGATCCTGAAGTA
CAGAAAGACATTAAAAATGTTCCCTTTAAATTTGTCCGTGCCTCCAATGGTGATGCCTGGGTTGAGGCTCATGGG
AAATTGTATTCTCCGAGTCAGATTGGAGCATTGTGTTGATGAAGATGAAAGAGACTGCAGAAAATTACTTGGGG
CGCACAGCAAAAAATGCTGTGATCACAGTCCAGCTTATTTCAATGACTCGCAGAGACAGGCCACTAAAGATGCT
GGCCAGATATCTGGACTGAATGTGCTTCGGGTGATTAATGAGCCACAGCTGCTGCTCTTGCCTATGGTCTAGAC
AAATCAGAAGACAAAGTCATTGCTGTATATGATTTAGGTGGTGGAACCTTTTGATATTTCTATCCTGGAAATTCAG
AAAGGAGTATTTGAGGTGAAATCCACAATGGGGATACCTTCTTAGGTGGGGAAGACTTTGACCAGGCCTTGCTA
CGGCACATTGTGAAGGAGTTCAAGAGAGAGACAGGGGTGATTGACTAAAGACAACATGGCACTTCAGAGGGTA
CGGGAAGCTGCTGAAAAGGCTAAGTGTGAACCTCTCCTCATCTGTGCAGACTGACATCAATTTGCCCTATCTTACA
ATGGATTCTTCTGGACCCAAGCATTGGAATATGAAGTTGACCCGTGCTCAATTTGAAGGGATTGTCAGTATCTA
ATCAGAAGGACTATCGCTCCATGCCAAAAAGCTATGCAAGATGCAGAAGTCAGCAAGAGTGACATAGGAGAAGTG
ATTCTTGTGGGTGGCATGACTAGGATGCCCAAGGTTGAGCAGACTGTACAGGATCTTTTGGCAGAGCCCCAAGT
AAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGAGCTGCCATTCAGGGAGGTGTGTTGGCCGGCGATGTCACG
GATGTGCTGCTCCTTGATGTCACTCCCCTGTCTCTGGGTATTGAAACTCTAGGAGGTGTCTTTACCAAACCTTATT
AATAGGAATACCCTATTCCAACCAAGAAGAGCCAGGTATTCTCTACTGCCGCTGATGGTCAAACGCAAGTGGA
ATTAAAGTGTGTCAGGGTGAAAGAGAGATGGCTGGAGACAACAACTCCTTGGACAGTTTACTTTGATTGGAATT
CCACCAGCCCCCTCGTGGAGTTCCTCAGATTGAAGTTACATTTGACATTGATGCCAATGGGATAGTACATGTTTCT
GCTAAAGATAAAGGCACAGGACGTGAGCAGCAGATTGTAATCCAGTCTTCTGGTGGATTAAGCAAAGATGATATT
GAAAATATGGTTAAAAATGCAGAGAAATATGCTGAAGAAGACCGGCGAAAGAAGGAACGAGTTGAAGCAGTTAAT
ATGGCTGAAGGAATCATTACGACACAGAAACCAAGATGGAAGAATTCAAGGACCAATTACCTGCTGATGAGTGC
AACAAGCTGAAAGAAGAGATTTCCAAAATGAGGGAGCTCCTGGCTAGAAAAGACAGCGAAACAGGAGAAAAATATT
AGACAGGCAGCATCCTCTCTTCAGCAGGCATCATTGAAGCTGTTGAAATGGCATACAAAAAGATGGCATCTGAG
CGAGAAGGCTCTGGAAGTTCTGGCACTGGGGAACAAAAGGAAGATCAAAAGGAGGAAAAACAGTAATAATAGCAG
AAATTTTGAAGCCAGAAGGACAACATATGAAGCTTAGGAGTGAAGAGACTTCCTGAGCAGAAATGGGCGAACTTC
AGTCTTTTTTACTGTGTTTTTGCAGTATTCTATATATAATTTCTTAATTTGTAAATTTAGTGACCATTAGCTAGT
GATCATTTAATGGACAGTGATTCTAACAGTATAAAGTTCACAATATTCTATGTCCCTAGCCTGTCAATTTTTCAGC
TGCATGTAAAAGGAGGTAGGATGAATTGATCATTATAAAGATTTAACTATTTTATGCTGAAGTGACCATATTTTC
AAGGGGTGAAACCATCTCGCACACAGCAATGAAGGTAGTCATCCATAGACTTGAAATGAGACCACATATGGGGAT
GAGATCCTTCTAGTTAGCCTAGTACTGCTGTACTGGCCTGTATGTACATGGGGTCCCTTCAACTGAGGCCTTGCAA
GTCAAGCTGGCTGTGCCATGTTTGTAGATGGGGCAGAGGAATCTAGAACAATGGGAACTTAGCTATTTATATTA
GGTACAGCTATTAAACAAGGTAGGAATGAGGCTAGACCTTTAACTTCCCTAAGGCATACTTTTCTAGCTACCTT
CTGCCCTGTGTCTGGCACCTACATCCTTGATGATTGTTCTCTTACCCATTCTGGAATTTTTTTTTTTTAAATA
AATACAGAAAGCATCTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 78

MISASRAAAARLVGAAASRGPTAARHQDSWNGLSHEAFRLVSRRDYASEAIKGAVVGIDLGTTNSCVAVMEGKRA
KVLNAEGARTTPSVVAFTADGERLVGMPAKRQAVTNPNNTFYATKRLIGRRYDDPEVQKDIKNVPFKIVRASNG
DAWVEAHGKLYSPSQIGAFVLMKMKETAENYLGRTAKNAVITVPAYFNDSQRQATKDAGQISGLNVLRVINEPTA
AALAYGLDKSEDKVIAVYDLGGGTFDISILEIQKGVFEVKSTNGDTFLGGEDFDQALLRHIVKEFKRETGVDLTK
DNMALQRVREAAEKAKCELSSSVQTDINLPYLTMDSSGPKHLNMKLTRAQFEGIVTDLIRRTIAPCQKAMQDAEV
SKSDIGEVIILVGGMTRMPKVQQTVDLFGRAPSKAVNPDEAVAIGAAIQGGVLAGDVTDVLLLDVTPLSLGIETL
GGVFTKLINRNTTIPTKKSQVFSTAADGQTQVEIKVCQGEREMAGDNKLLGQFTLIGIPPAPRGVPQIEVTFDID
ANGIVHVSADKGTGREQQIVIQSSGGLSKDDIENMVKNAEKYAEEDRRKKERVEAVNMAEGIIHDTETKMEEFK
DQLPADECNKLKEEISKMRELLARKDSETGENIRQAASSLQQASLKLFEEMAYKKMASEREGSGSSGTGEQKEDQK
EEKQ

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FIGURE 79

GTGGTGGGACTCGCGTCGCGGCCGCGGAGACGTGAAGCTCTCGAGGCTCCTCCCGCTGCGGGTCGGCGCTCGCCC
TCGCTCTCCTCGCCCTCCGCCCCGGCCCCGGCCCCGCGCCCGCCATGGGAGAAGACTGAGCTGATCCAGAAGGCCA
AGCTGGCCGAGCAGGCCGAGCGCTACGACGACATGGCCACCTGCATGAAGGCAGTGACCGAGCAGGGCGCCGAGC
TGTC AACGAGGAGCGCAACCTGCTCTCCGTGGCCTACAAGAACGTGGTCGGGGGCCGAGGTCCGCCTGGAGGG
TCATCTCTAGCATCGAGCAGAAGACCGACACCTCCGACAAGAAGTTGCAGCTGATTAAGGACTATCGGGAGAAAG
TGGAGTCCGAGCTGAGATCCATCTGCACCACGGTGCTGGAATTGTTGGATAAATATTTAATAGCCAATGCAACTA
ATCCAGAGAGTAAGGTCTTCTATCTGAAAATGAAGGGTGATTACTTCCGGTACCTTGCTGAAGTTGCGTGTGGTG
ATGATCGAAAACAAACGATAGATAATTCCCAAGGAGCTTACCAAGAGGCATTGATATAAGCAAGAAAGAGATGC
AACCACACACCCCAATCCGCCTGGGGCTTGCTCTTAACCTTTTCTGTATTTTACTATGAGATTCTTAATAACCCAG
AGCTTGCCTGCACGCTGGCTAAAACGGCTTTTGATGAGGCCATTGCTGAACCTTGATACACTGAATGAAGACTCAT
ACAAAGACAGCACCTCATCATGCAGTTGCTTAGAGACAACCTAACACTTTGGACATCAGACAGTGCCAGGAGAAG
AATGTGATGCGGCAGAAGGGGCTGAAAACTAAATCCATACAGGGTGTATCCTTCTTTCTTCAAGAAACCTTTT
TACACATCTCCATTCTTATTCCACTTGGATTTCCTATAGCAAAGAAACCCATTTCATGTGTATGGAATCAACTGT
TTATAGTCTTTTACACTGCAGCTTTGGGAAAACCTTCATTCTTGATTTGTGTTTGTCTTGGCCTTCTCTGGTGTG
CAGTACTGCTGTAGAAAAGTATTAATAGCTTCATTCATATAAACATAAGTAACTCCCAAACACTTATGTAGAGG
ACTAAAATGTATCTGGTATTTAAGTAATCTGAACCAGTTCCTGCAAGTGACTGTGTTTTGTATTACTGTGAAAT
AAGAAAATGTAGTTAATTACAATTTAAAGAGTATCCACATAACTTCTTAATTTCTACATTCCCTCCCTTACTCT
TCGGGGGTTTCTTTTCTAGTAAGCAACTTTTCCATGCTCTTAATGTATTCTTTTCTAGTAGGAATCCGGAAGTATT
AGATTGAATGGAAGCACTTGCCATCTCTGTCTAGGGGTCAAAATTGAAATGGCTCCTGTATCACATACGGAG
GTCTTGTGTATCTGTGGCAACAGGGAGTTTCTTATTCACTCTTTATTTGCTGCTGTTAAGTTGCCAACCTCCC
CTCCCAATAAAAATTCACCTTACACCTCCTGCCTTTGTAGTTCTGGTATTCACTTTACTATGTGATAGAAGTAGCA
TGTTGCTGCCAGAATAACAAGCATTGCTTTTGGCAAATTAAAGTGATGTCATTTCTTAATACTAGAAAGGGGA
AATAAATTAAGTACACAAGTCCAAGTCTAAAACCTTTAGTACTTTTCCATGCAGATTTGTGCACATGTGAGAGGG
TGTCAGTTTGTCTAGTGATTGTTATTTAGAGAGTTGGACCCTATTGTGTGTTGCTAATCATTGACTGTAGTCC
CAAAAAGCCTTGTGAAAATGTTATGCCCTATGTAACAGCAGAGTAACATAAAATAAAAGTACATTTTATAAACC
ATTTACTATGGCTTTGTAAACAATTGCATACCCATATTTAAGGGACAGGTGAATTTACTACTTTCTAAAGTTTAT
TGATACTTCCCTTTTATGTAAAAATGTAGTAGTGATACCTATATTTCCACATTGTGCATTGTGACACACTTGTCTA
GGGATGCCTGGAAGTGTATAAAATGGACTGCATTTCTTAGAGTGTTTTACTATAGATCAGTCTCATGGGCCATC
TCTTCTCAGATGTAAATGATATCTGGTTAAGTGTTATATGGAATAAAGTGGACATTTTAAACTA

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FIGURE 80

MEKTELIQKAKLAEQAERYDDMATCMKAVTEQGAELSNEERNLLSVAYKNVVGGRRSAWRVISSIEQKTDTSDDK
LQLIKDYREKVESELRSICTTVLELLDKYLIANATNPESKV FYLKMKGDYFRYLAEVACGDDRKQTIDNSQGAYQ
EAFDISKKEMQPTHP IRLGLALNFSVFYYEILNNPELACTLAKTAFDEAIAELDTLNEDSYKDSTLIMQLLRDNL
TLWTSDSAGEECDAAEGAEN

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FIGURE 81

ACCGCACGTCGGCAGTCGGCTCCCTCGTTGACCGAATCACCGACCTCTCTCCCCAGCTGTATTTCCAAAATGTCG
TTTCTAACAAGCTGACGCTGGACAAGCTGGACGTTAAAGGGAAGCGGGTCGTTATGAGAGTCGACTTCAATGTT
CCTATGAAGAACAACCAGATAACAAACAACCAGAGGATTAAGGCTGCTGTCCCAAGCATCAAATTCGCTTGGAC
AATGGAGCCAAGTCGGTAGTCCTTATGAGCCACCTAGGCCGGCCTGATGGTGTGCCCATGCCTGACAAGTACTCC
AGCCAGTTGCTGTAGAACTCAAATCTCTGCTGGGCAAGGATGTTCTGTTCTTGAAGGACTGTGTAGGCCCA
GGAGAAAGCCTGTGCCAACCCAGCTGCTGGGTCTGTCACTCTGCTGGAGAACCTCCGCTTTCATGTGGAG
AAGGGAAGGGAAGATGCTTCTGGGAACAAGGTTAAAGCCGAGCCAGCCAAAATAGAAGCTTTCGAGCT
ACTTTCCAAAGCTAGGGGATGTCTATGTCAATGATGCTTTTGGCACTGCTCACAGAGCCCACAGCTCCATGGTA
CTCAATCTGCCACAGAAGGCTGGTGGGTTTTTGATGAAGAAGGAGCTGAACTACTTTGCAAAGGCCTTGGAG
CAGAGCGACCCTTCTGGCCATCCTGGGCGGAGCTAAAGTTGCAGACAAGATCCAGCTCATCAATAATATG
CAAAAGTCAATGAGATGATTATTGGTGGTGGAAATGGCTTTTACCTTCCTTAAGGTGCTCAACAACATGGAG
GCACTTCTCTGTTTGATGAAGAGGGAGCCAAGATTGTCAAAGACCTAATGTCCAAAGCTGAGAAGAATGGT
AAGATTACCTTGCCTGTTGACTTTGTCACTGCTGACAAGTTTGATGAGAATGCCAAGACTGGCCAAGCCACT
GGCTTCTGGCATACTGCTGGCTGGATGGGCTTGGACTGTGGTCTGAAAGCAGCAAGAAGTATGCTGAGGCT
GCTACTCGGGCTAAGCAGATTGTGTGGAATGGTCTGTGGGGTATTTGAATGGGAAGCTTTTGGCCGGGGAACC
AAAGCTCTCATGGATGAGGTGGTGAAAGCCACTTCTAGGGGCTGCATCACCATCATAGGTGGTGGAGACACTGCC
ACTTGCTGTGCCAAATGGAACACGGAGGATAAAGTCAGCCATGTGAGCACTGGGGGTGGTGCCAGTTTGGAGCTC
CTGGAAGGTAAAGTCCTTCTGGGGTGGATGCTCTCAGCAATATTAGTACTTTTCTGCCTTTTAGTTCTGTGC
ACAGCCCCTAAGTCAACTTAGCATTTTCTGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGTCAAGATTCAG
CTAGTGGCCAAGAGATGCAGTGCCAGGAACCCTTAAACAGTTGCACAGCATCTCAGCTCATCTTCACTGCACCCCT
GGATTGTCATACATTCTTCAAGATCCCATTGAAATTTTTTAGTGACTAAACCATTGTGCATTCTAGAGTGCATAT
ATTTATATTTTGCCTGTTAAAAAGAAAGTGAGCAGTGTTAGCTTAGTTCTCTTTTGATGTAGGTTATTATGATTA
GCTTTGTCAGTGTTCCTACTACTCAGCATGGAAACAAGATGAAATTCATTTGTAGGTAGTGAGACAAAATTGATG
ATCCATTAAGTAAACAATAAAAGTGTCATTGAAACCGTGATTTTTTTTTTTTTCTGTCTACTTTGTTAGGAA
GGGTGAGAATAGAATCTTGAGGAACGGATCAGATGTCTATATTGCTGAATGCAAGAAGTGGGGCAGCAGCAGTGG
AGAGATGGGACAATTAGATAAATGTCCATTCTTTATCAAGGGCTACTTTATGGCAGACATTGTGCTAGTGCTTT
TATTCTAACTTTTATTTTATCAGTTACACATGATCATAATTTAAAAAGTCAAGGCTTATAACAAAAAAGCCCCA
GCCCATTCTCCATTCAAGATTCCCACTCCCCAGAGGTGACCACTTCAACTCTTGAGTTTTTCAGGTATATAC
CTCCATGTTTCTAAGTAATATGCTTATATTGTTCACTTCCTTTTTTTTTTATTTTTTAAAGAAATCTATTTTCATAC
CATGGAGGAAGGCTCTGTTCCACATATATTTCCACTTCTTCATTCTCTCGGTATAGTTTTGTCACAATTATAGAT
TAGATCAAAAGTCTACATAACTAATACAGCTGAGCTATGTAGTATGCTATGATTAAATTTACTTATGTAAAAAA
AAAAAAAAAAAA

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FIGURE 82

MSLSNKLTLDKLDVKGKRVVMRVDNFNVPKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMShLGRPDGVPMPDK
YSLEPVAVELKSLGKDVFLKDCVGPEVEKACANPAAGSVILLENLRFHVEEEGKGKDASGNKVKAEPKIEAF
RASLSKLGDVYVNDAFGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPPERPFLAILGGAKVADKIQLIN
NMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAENGVKITLPVDFVTADKFDENAKTGQ
ATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPVGVFWEAFARGTKALMDEVVKATSRGCITIIIGGGD
TATCCAKWNTEDKVSHVSTGGGASLELLEGGKVLPGVDALSNI

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FIGURE 83

CGCCCCCTGCTCTCGCGCCGGCGTCGGCTGCGTCTCCGGCGTTTGAATTGCGCTTCCGCCATCTTTCCAGCCTCAG
TCGGACGGGCGCGGAGGCGCTTCTGGAAGGAACGCCGCGATGGCTGCGCAGGGAGAGCCCCAGGTCCAGTTCAAA
CTTGATTGGTTGGTGATGGTGGTACTGGAAAAACGACCTTCGTGAAACGTCATTTGACTGGTGAATTTGAGAAG
AAGTATGTAGCCACCTTGGGTGTTGAGGTTTCATCCCCTAGTGTTCCACACCAACAGAGGACCTATTAAGTTCAAT
GTATGGGACACAGCCGGCCAGGAGAAATTCGGTGGACTGAGAGATGGCTATTATATCCAAGCCCAGTGTGCCATC
ATAATGTTTGATGTAACATCGAGAGTTACTTACAAGAATGTGCCTAACTGGCATAGAGATCTGGTACGAGTGTGT
GAAAACATCCCCATTGTGTTGTGTGGCAACAAAGTGGATATTAAGGACAGGAAAGTGAAGGCGAAATCCATTGTC
TTCCACCGAAAGAAGAATCTTCAGTACTACGACATTTCTGCCAAAAGTAACTACAACCTTTGAAAAGCCCTTCCTC
TGGCTTGCTAGGAAGCTCATTGGAGACCCTAACTTGGAATTTGTTGCCATGCCTGCTCTCGCCCCACCAGAAGTT
GTCATGGACCCAGCTTTGGCAGCACAGTATGAGCAGACTTAGAGGTTGCTCAGACAACCTGCTCTCCCGGATGAG
GATGATGACCTGTGAGAATGAAGCTGGAGCCCAGCGTCAGAAGTCTAGTTTTATAGGCAGCTGTCCTGTGATGTC
AGCGGTGCAGCGTGTGTGCCACCTCATTATTAICTAGCTAAGCGGAACATGTGCTTTATCTGTGGGATGCTGAAG
GAGATGAGTGGGCTTCGGAGTGAATGTGGCAGTTTTAAAAATAACTTCATTGTTTGGACCTGCATATTTAGCTGT
TTGGACGCAGTTGATTCCCTTGAGTTTCATATATAAGACTGCTGCAGTCACATCACAATATTCAGTGGTGAAATCT
TGTTTGTTACTGTCAATCCCATTCCTTTTCTTTAGAATCAGAATAAAGTTGTATTTCAAATATCTAAGCAAGTGA
ACTCATCCCTTGTTTATAAATAGCATTGTGAAACCACTAAAGTAGGGAAGTTTTATGCCATGTTAATATTTGAAT
TGCCTTGCTTTTATCACTTAATTTGAAATCTATTGGGTAAATTTCTCCCTATGTTTATTTTGTACATTTGAGCC
ATGTCACACAACTGATGATGACAGGTCAGCAGTATTCTATTTGGTTAGAAGGGTTACATGGTGTAAATATTAGT
GCAGTTAAGCTAAAGCAGTGTGCTCCACCTTCATATTGGCTAGGTAGGGTCACCTAGGGAAGCATTGCTCAA
AATCTGTGACCTGTCAGAATAAAAATGTGGTTTGTACATATCAAATAGATATTTTAAGGGTAATATTTTCTTTTA
TGGCAAAAGTAATCATGTTTTAATGTAGAACCTCAAACAGGATGGAACATCAGTGGATGGCAGGAGGTTGGGAAT
TCTTGCTGTTAAAAATAATTACAAATTTTGCACTTTTTGTGTTGAATGTTAGATGCTTAGTGTGAAGTTGATACGC
AAGCCG

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FIGURE 84

MAAQGE PQVQFKLVLVGDGGTGKTTFVKRHLTGEFEKKYVATLGVEVHPLVFHTNRGPIKFNWDTAGQEKFGGL
RDGYYIQAQCAIIMFDVTSRVTYKNVFNWHRDLVRVCENIPIVLCGNKVDIKDRKVKAKSIVFHRKKNLQYYDIS
AKSNYNFEKPFLWLARKLIGDPNLEFVAMPALAPPEVVMDFALAAQYEHDLVAQTALPDEDDDL

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FIGURE 85

CGCTAGCCTGCGGAGCCCGTCCGTGCTGTTCTGCGGAAGGCCTTTCCAGTGTCCCCACGCGGAAGGCAACTGC
CTGAAAGGCGCGGCGTTCGCACCGCCCAGAGCTGAGGAAGCCGGCGCCAGTTTCGCGGGGCTCCGGGCGCCACTCA
GAGCTATGAGCTACGGCCGCCCCCTCCCGATGTGGAGGGTATGACCTCCCTCAAGGTGGACAACCTGACCTACC
GCACCTCGCCCGACACGCTGAGGCGCGTCTTCGAGAAGTACAGGCGCGTTCGGCGACGTGTACATCCCGCGGGATC
GCTACACCAAGGAGTCCCGCGGCTTCGCCTTCGTTTCGCTTTACGACAAGCGCGACGCTGAGGACGCTATGGATG
CCATGGACGGGGCCGTGCTGGACGGCGCGAGCTGCGGGTGCAAATGGCGCGCTACGGCCGCCCCCGGACTCAC
ACCACAGCCGCGGGGACCGCCACCCGCGAGGTACGGGGGCGGTGGCTACGGACGCGGAGCCGCGAGCCCTAGGC
GGCGTTCGCCGAGCCGATCCCGGAGTTCGGAGCCGTTCCAGGTCTCGCAGCCGATCTCGCTACAGCCGCTCGAAGT
CTCGGTCCCGCACTCGTTCTCGATCTCGGTTCGACCTCCAAGTCCAGATCCGCACGAAGGTCCAAGTCCAAGTCCT
CGTCGGTCTCCAGATCTCGTTTCGCGGTCCAGGTCCCGGTCTCGGTCCAGGAGTCTCCCCAGTGTCCAAGAGGG
AATCCAAATCCAGGTTCGCGATCGAAGAGTCCCCCAAGTCTCCTGAAGAGGAAGGAGCGGTGTCTCTTAAGAAA
ATGATGTATCGGCAAGCAGTGTAAACGGAGGACTTGGGGAAAAAGGACCACATAGTCCATCGAAGAAGAGTCCTT
GGAACAAGCAACTGGCTATTGAAAAGGTTATTTTGTAACTTTTGTCTAACTTTTTACTTGTTTAAGCTTTGCCTC
AGTTGGCAAACCTTCATTTTATGTGCCATTTTGTGTCTGTTATTCAAATTTCTTGTAAATTTAGTGAGGTGAACGAC
TTCAGATTTTCATTATTGGATTTGGATATTTGAGGTAAATTTTCATTTTGTATATAGTGCTGACTTTTTTTTTTT
GAAATTAAACAGATTGGTAACCTAATTTGTGGCCTCCTGACTTTTAAGGAAAACGTGTGCAGCCATTACACACAG
CCTAAAGCTGTCAAGAGATTGACTCGGCATTTCGTTTCCTTAAATTAATAACCTACAAAAGTTGGTGTAAAT
TTGTATATGTTATTTACCTTCAGATCTAAATGGTAATCTGAACCCAAATTTGTATAAAGACTTTTCAGGTGAAAA
GACTTGATTTTTTTGAAAGGATTGTTTATCAAACACAATTCTAATCTCTTCTCTTATGTATTTTTGTGCACTAGGC
GCAGTTGTGTAGCAGTTGAGTAATGCTGGTTAGCTGTTAAGGTGGCGTGTTCAGTGCAGAGTGCTTGGCTGTTT
CCTGTTTTCTCCCGATTGCTCCTGTGTAAAGATGCCTTGTCGTGCAGAAACAAATGGCTGTCCAGTTTATTAAAA
TGCCTGACAACTGCACTTCAGACACCCGGGCCTTGCAATATAAATAACGGAGCATACAGTGAGCACATCTAGCTG
ATGATAAATACACCTTTTTTTCCCTCTTCCCCCTAAAAATGGTAAATCTGATCATATCTACATGTATGAACCTAA
CATGGAAAATGTTAAGGAAGCAAATGGTTGTAACCTTTGTAAGTACTTATAACATGGTGTATCTTTTTGCTTATGA
ATATCTGTATTATAACCATTGTTTCTGTAGTTTAATTAAACATTTTCTTGGTGTAGCTTTAAAAA
AAAA

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FIGURE 86

MSYGRPPPDVEGMTSLKVDNLTYRTSPDTLRRVFEKYRRVGDVYIPRDRYTKESRGFAFVRFHDKRDAEDAMDAM
DGAVLDGRELRVQMARYGRPPDSHHSRRGPPPRRYGGGGYGRRSRSPRRRRRSRSRSRSRSRSRSRSRYRSKSR
SRTRSRSRSTSKSRSAARRSKSKSSSVSRSRSRSRSRSRSPFPVSKRESKSRSRSKSPPKSPEEEGAVSS

[illegible]

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FIGURE 88

MNNQKQKPTLSGQRFKTRKRDEKERFDPTQFQDCIIQGLTETGTDLAVAKFLDASGAKLDYRRYAETLFDILV
AGGMLAPGGTLADMMRTDVCVFAAQEDLETMQAFAQVFNKLIRRYKYLEKGFEDVKKLLFLKGFSESERNKL
AMLTGVLLANGTLNASILNSLYNENLVKEGVSAFAVKLFKSWINEKDINAVAASLRKVSMDNRLMELFPANKQS
VEHFTKYFTEAGLKELSEYVRNQOTIGARKELQKELQEQMSRGDPFKDIILYVKEEMKKNNIPEPVVIGIVWSSV
MSTVEWNKKEELVAEQAIKHLKQYSPLLAFTTQGOSELTLLLKIQEYCYDNIHFMKAFQKIVVLFYKAEVLSEE
PILKWYKDAHVAKGKSVFLEQMKKFVEWLKNAEEEESEAEEGD

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FIGURE 89

GTCAGTCCCTCCTGTAGCCGCCGCCGCCGCCGCCGCCGCCCTCTGCCAGCAGCTCCGGCGCCACCTCGGGCCG
GCGTCTCCGGCGGGCGGGAGCCAGGCGCTGACGGGCGCGCGGGGGCGGCCGAGCGCTCCTGCGGCTGCGACTCA
GGCTCCGGCGTCTGCGCTTCCCCATGGGGCTGGCCTGCGGCGCCTGGGCGCTCTGAGATTGTCACTGCTGTTCCA
AGGGCACACGCAGAGGGATTTGGAATTCCTGGAGAGTTGCCTTTGTGAGAAGCTGGAATATTTCTTTCAATTCC
ATCTCTTAGTTTTCCATAGGAACATCAAGAAATCATGAACAACCTTGGTAATGAAGAGTTTGACTGCCACTTCCT
CGATGAAGGTTTTACTGCCAAGGACATTCTGGACCAGAAAATTAATGAAGTTTCTTCTTCTGATGATAAGGATGC
CTTCTATGTGGCAGACCTGGGAGACATTCTAAAGAAAACATCTGAGGTGGTTAAAAGCTCTCCCTCGTGTCACCCC
CTTTTATGCAGTCAAATGTAATGATAGCAAGCCATCGTGAAGACCCTTGCTGCTACCGGGACAGGATTTGACTG
TGCTAGCAAGACTGAAATACAGTTGGTGCAGAGTCTGGGGGTGCCTCCAGAGAGGATTATCTATGCAAAATCCTTG
TAAACAAGTATCTCAAATTAAGTATGCTGCTAATAATGGAGTCCAGATGATGACTTTTGATAGTGAAGTTGAGTT
GATGAAAGTTGCCAGAGCACATCCCAAAGCAAAGTTGGTTTTGCGGATTGCCACTGATGATTCCAAAGCAGTCTG
TCGTCTCAGTGTGAAATTCGGTGCCACGCTCAGAACCCAGCAGGCTCCTTTTGGAACGGGCGAAAGAGCTAAATAT
CGATGTTGTTGGTGTGACGTTCCATGTAGGAAGCGGCTGTACCGATCCTGAGACCTTCGTGCAGGCAATCTCTGA
TGCCCGCTGTGTTTTTGACATGGGGGCTGAGGTTGGTTTCAGCATGTATCTGCTTGATATTGGCGGTGGCTTTCC
TGGATCTGAGGATGTGAAACTTAAATTTGAAGAGATCACCGGCGTAATCAACCCAGCGTTGGACAAATACTTTCC
GTCAGACTCTGGAGTGAGAATCATAGCTGAGCCCGGCAGATACTATGTTGCATCAGCTTTCACGCTTGCACTTAA
TATCATTGCCAAGAAAATTGTATTAAAGGAACAGACGGGCTCTGATGACGAAGATGAGTCGAGTGAGCAGACCTT
TATGTATTATGTGAATGATGGCGTCTATGGATCATTTAATTGCATACTCTATGACCACGCACATGTAAAGCCCCT
TCTGCAAAAGAGACCTAAACCAGATGAGAAGTATTATTCATCCAGCATATGGGGACCAACATGTGATGGCCTCGA
TCGGATTGTTGAGCGCTGTGACCTGCCTGAAATGCATGTGGGTGATTGGATGCTCTTTGAAAACATGGGCGCTTA
CACTGTTGCTGCTGCCTCTACGTTCAATGGCTTCCAGAGGCCGACGATCTACTATGTGATGTCAGGGCCTGCGTG
GCAACTCATGCAGCAATTCCAGAACCCCGACTTCCCACCCGAAGTAGAGGAACAGGATGCCAGCACCCCTGCCTGT
GTCTTGTGCCTGGGAGAGTGGGATGAAACGCCACAGAGCAGCCTGTGCTTCGGCTAGTATTAATGTGTAGATAGC
ACTCTGGTAGCTGTAACTGCAAGTTTAGCTTGAATTAAGGGATTTGGGGGACCATGTAACCTAATTACTGCTA
GTTTTGAAATGTCTTTGTAAGAGTAGGGTCGCCATGATGCAGCCATATGGAAGACTAGGATATGGGTACACCTTA
TCTGTGTTCTATGGAACTATTTGAATATTTGTTTTATATGGATTTTTATTCACTCTTCAGACACGCTACTCAA
GAGTGCCCTCAGCTGCTGAACAAGCATTGTAGCTTGACAATGGCAGAATGGGCCAAAAGCTTAGTGTTGTGA
CCTGTTTTTAAATAAAGTATCTTGAAATAATTAGGC

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FIGURE 90

MNFGNEEFDCHFLDEGFTAKDILDQKINEVSSSDDKDAFYVADLGDILKKHLRWLKA
LPRVTPFYAVKCND
SKA
IVKTLAATGTGFDCA
SKTEIQLVQSLGVPPERIIYANPCKQVSQIKYAANNGVQMMTFDSEVELMKVARAHPKAK
LVLRIATDDSKAVCRLSVKFGATLRTSRLLLERAKELNIDVVGVSFHVGS
GCTDPETFVQAISDARCVFDMGAEV
GFSMYLLDIGGGFPGSE
DVKLKFEEITGVINPALDKYFP
SDSGVRIIAEPGRYYVASAFTLAVNIIAKKIVLKEQ
TGSDDEDESSEQT
FMYVNDGVYGSFNCILYDHAHVKPLLQKRPKPDEKYYSSSIWGPTCDGLDRIVERCDLPEM
HVGDWMLFENMGAYTVAAASTFNGFQRPTIYYVMSPAWQLMQQFQNPDPPEVEEQDASTLPVSCAWESGMKRH
RAACASASINV

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FIGURE 91

CACGCTTGCCGCCGCCCGCAGAAATGCTTCGGTTACCCACAGTCTTTTCGCCAGATGAGACCGGTGTCCAGGGTA
CTGGCTCCTCATCTCACTCGGGCTTATGCCAAAGATGTAAAATTTGGTGCAGATGCCCGAGCCTTAATGCTTCAA
GGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGGGCCAAAGGGAAGAACAGTGATTATTGAGCAGGGT
TGGGGAAGTCCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATTGACTTAAAAGATAAATACAAGAAC
ATTGGAGCTAAACTTGTTCAAGATGTTGCCAATAACACAAATGAAGAAGCTGGGGATGGCACTACCACTGCTACT
GTACTGGCACGCTCTATAGCCAAGGAAGGCTTCGAGAAGATTAGCAAAGGTGCTAATCCAGTGGAATCAGGAGA
GGTGTGATGTTAGCTGTTGATGCTGTAATTGCTGAACCTTAAAAAGCAGTCTAAACCTGTGACCACCCCTGAAGAA
ATTGCACAGGTTGCTACGATTTCTGCAAACGGAGACAAAGAAATTGGCAATATCATCTCTGATGCAATGAAAAA
GTTGGAAGAAAGGGTGTCATCACAGTAAAGGATGGAAAAACACTGAATGATGAATTAGAAATTATTGAAGGCATG
AAGTTTGATCGAGGCTATATTTCTCCATACTTTATTAATACATCAAAAGGTCAGAAATGTGAATTCCAGGATGCC
TATGTTCTGTTGAGTGAAAAGAAAATTTCTAGTATCCAGTCCATTGTACCTGCTCTTGAAATTGCCAATGCTCAC
CGTAAGCCTTTGGTCATAATCGCTGAAGATGTTGATGGAGAAGCTCTAAGTACACTCGTCTTGAATAGGCTAAAG
GTTGGTCTTCAGGTTGTGGCAGTCAAGGCTCCAGGGTTTGGTGACAATAGAAAAGAACAGCTTAAAGATATGGCT
ATTGCTACTGGTGGTGCAGTGTGTTGGAGAAGAGGGATTGACCCTGAATCTTGAAGACGTTCCAGCCTCATGACTTA
GGAAAAGTTGGAGAGGTCATTGTGACCAAAGACGATGCCATGCTCTTAAAAGGAAAAGGTGACAAGGCTCAAATT
GAAAAACGTATTCAAGAAATCATTGAGCAGTTAGATGTCACTAGTGAAATATGAAAAGGAAAACTGAATGAA
CGGCTTGCAAACTTTTCAGATGGAGTGGCTGTGCTGAAGGTTGGTGGGACAAGTGATGTTGAAGTGAATGAAAAG
AAAGACAGAGTTACAGATGCCCTTAATGCTACAAGAGCTGCTGTTGAAGAAGGCATTGTTTTGGGAGGGGGTTGT
GCCCTCCTTCGATGCATTCCAGCCTTGACTCATTGACTCCAGCTAATGAAGATCAAAAAATTGGTATAGAAATT
ATTTAAAGAACACTCAAAATTCAGCAATGACCATTGCTAAGAATGCAGGTGTTGAAGGATCTTTGATAGTTGAG
AAAATTATGCAAAGTTCCTCAGAAGTTGGTTATGATGCTATGGCTGGAGATTTTGTGAATATGGTGGAAAAAGGA
ATCATTGACCCAACAAAGGTTGTGAGAACTGCTTTATTGGATGCTGCTGGTGTGGCCTCTCTGTTAACTACAGCA
GAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAGGACCCTGGAATGGGTGCAATGGGTGGAATGGGAGGTGGT
ATGGGAGGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACCTTTATTAATGAAGTGTGACAGGAAGCCCAAGGC
AGTGTTCCTCACCAATAACTTCAGAGAAGTCAGTTGGAGAAAATGAAGAAAAGGCTGGCTGAAAATCACTATAA
CCATCAGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGCTGCTATTGTCCATGCCTACAGATAATTT
ATTTTGTATTTTGAATAAAAAACATTTGTACATTCTGATACTGGGTACAAGAGCCATGTACCAGTGTACTGCT
TTCAACTTAAATCACTGAGGCATTTTACTACTATTCTGTTAAAATCAGGATTTTAGTGCTTGCCACCACCAGAT
GAGAAGTTAAGCAGCCTTTCTGTGGAGAGTGAGAATAATTGTGTACAAAGTAGAGAAGTATCCAATTATGTGACA
ACCTTTGTGTAATAAAAAATTTGTTTAA

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FIGURE 92

MLRLPTVFRQMRPVSRVLAPHLTRAYAKDVKFGADARALMLQGVDLLADAVAVTMGPKGRTVIEQGWGSPKVTK
DGVTVAKSIDLKDKYKNIGAKLVQDVANNTNEEAGDGTITATVLARSIAKEGFEEKISGANPVEIRRGVMLAVDA
VIAELKKQSKPVTTPEEIAQVATISANGDKEIGNIISDAMKKVGRKGVITVKDGKTLNDELEIEGMKFDRGYIS
PYFINTSKGQKCEFQDAYVLLSEKKISSIQSIVPALEIANAHRKPLVIAEDVDGEALSTLVNRLKVGLQVVAV
KAPGFGDNRKNQLKDMAIATGGAVFGEEGLTLNLEDVQPHDLGKVGEVIVTKDDAMLLKGKGDKAQIEKRIQEI
EQLDVTTSEYEKEKLNERLAKLSDGVAVLKVGGTSDVEVNEKKDRVTDALNATRAAVEEGIVLGGGCALLRCIPA
LDLSTPANEDQKIGIEIIKRTLKIPAMTIAKNAGVEGSLIVEKIMQSSSEVGYDAMAGDFVNMVEKGIIDPTKVV
RTALLDAAGVASLLTTAEVVVTEIPKEEKDPGMGAMGGMGGGMGGGMF

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FIGURE 93

GTTCCAAGGTTTGC GGCCCGGTCTCGGAGAAGAGGGGAGAGTGGAGGGCCGCTGAATAAGCTTCCAAAATGATGC
CCACACCAGTTATCCTATTGAAAGAGGGGACTGATAGCTCCCAAGGCATCCCCAGCTTGTGAGTAACATCAGTG
CCTGCCAGGTGATTGCTGAGGCTGTAAGAACTACCCTGGGTCCCCGTGGCATGGACAAGCTTATTGTAGATGGCA
GAGGCAAAGCAACAATTTCTAATGATGGGGCCACAATTCTGAAACTTCTTGATGTTGTCCATCCTGCAGCAAAGA
TGGTAGACATTGCCAAATCCCAAGATGCTGAGGTGGGTGATGGCACCACCTCAGTGACCTTGCTGGCTGCAG
TCTGAAGCAGGTGAAACCTATGTGGAGGAAGGTTTACACCCCCAGATCATCATTGAGCTTTCCGCACAG
TCCAGCTGGCAGTTAACAAGATCAAAGAGATTGCTGTGACCGTGAAGAAGGCAGATAAAGTGGAGCAGAGGA
TCTGCTGGAAAAGTGTGCCATGACCGCTCTGAGCTCCAAGCTGATCTCCAGCAGAAAGCTTTCTTTGCTAAGA
TGGTGGATGCAGTGATGATGCTCGATGATTGCTGCAGCTTAAATGATTGGAATCAAGAAGGTACAGGGTG
TCTCGAGGATTCTCAGCTGGTAGCTGGTGTTCATTCAAGAAGACTTTCTCTTACGCTGGGTTTGAAATGC
TAAAAAGTACCACAATCCCAAGATTGCCCTTTTGAATGTCGAGCTCGAGTTGAAAGCTGAGAAAGACAATG
AGATAAGAGTCCACACAGTTGAGGATTATCAGGCAATTGTTGATGCTGAGTGGAACATTCTCTATGACAAGT
GAGAAGATCCATCATTCTGGAGCCAAAGTTGTCTTGTCCAAACTCCCCATTGGGGATGTGGCCACCCAGTACT
TCTGACAGGGACATGTTCTGTGCTGGCCGAGTACCTGAGGAGGATCTGAAGAGGACAATGATGGCCTGTGGAG
TCAATCCAGACCAGTGTGAATGCTCTGTGTCAGCAGATGTGCTGGGTGATGCCAGGTGTTTGAAGAGACCCAGA
TGGAGGCGAGAGGTACAATTTTTTTTACTGGCTGCCCCAAGGCCAAGACATGCACCTTCATTCTCCGTGGCGGCG
CCGAGCAGTTTATGGAGGAGACAGAGCGGTCCCTGCATGATGCCATCATGATCGTCAGGAGGGCCATCAAGAATG
ATTCAGTGGTGGCTGGTGGCGGGGCCATTGAGATGGAACCTCCAAGTACCTGCGGGATTACTCAAGGACTATTC
CAGGAAAACAGCAGCTGTTGATTGGGGCTTATGCCAAGGCCTTGAGATTATCCACGCCAGCTGTGTGACAATG
CTGGCTTTGATGCCACAAACATTCTCAACAAGCTGCGGGCTCGGCATGCCAGGGGGGTACATGGTATGGAGTAG
ACATCAACAACGAGGACATTGCTGACAACCTTGAAGCTTTCGTGTGGGAGCCAGCTATGGTGC GGATCAATGCGC
TGACAGCAGCTCTGAGGCTGCGTGCTGATCGTGTCTGTAGATGAAACCATCAAGAACCCCCGCTCGACTGTGG
ATGCTCCACAGCAGCAGGCCGGGGCCGTGGTTCGTGGCCGCCCCACTGAGAGGCACCCACCCATCACATGGCT
GGCTGGCTGCTGGGTGCACTTACCCTCCTTGGCTTGGTTACTTCATTTTACAAGGAAGGGGTAGTAATTGGCCCA
CTCTCTTCTTACTGGAGGCTATTTAAATAAAATGTAAGACTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 94

MMPTPVILLKEGTDSSQGIPQLVSNISACQVIAEAVRTTLGPRGMDKLIVDGRGKATISNDGATILKLLDVVHPA
AKTLVDIAKSQDAEVDGTTSTVLLAAEFLKQVKPYVEEGLHPQIIIRAFRTATQLAVNKIKEIAVTVKKADKVE
QRKLEKCAMTALSSKLISQKKAFFAKMVVDVMMMLDDLLQLKMIGIKKVQGGAEDSLQVAGVAFKKTFSYAGF
EMQPKKYHNPKIALLNVELELKAEKDNAEIRVHTVEDYQAIVDAEWNILYDKLEKIHHSKAKVVLKLPVIGDVAT
QYFADRMFCAGRVPEEDLKRTMMACGGSIQTSVNALSADVLGRCQVFEETQIGGERYNFFTGCPKAKTCTFILR
GGAEQFMEETERSLHDAIMIVRRAIKNDSVVAGGGAIEMELSKYLRDYSRTIPGKQQLLIGAYAKALEIIPRQLC
DNAGFDATNILNKLRRARHAQGGTWYGVDINNEDIADNFEAFVWEPAMVRINALTAASEAACLIVSVDETIKNPRS
TVDAPTAAGRGRGRGRPH

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FIGURE 95

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCCGGGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCATGTA
CGAGCAACTCAAGGGCGAGTGGAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTGCACTCAA
GCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCG
TGACATACTGGAGATCGGGGCCCAATGGAGCATCCTACGCAAGGACATCCCCTCCTTCGAGCGCTACATGGCCCA
GCTCAAATGCTACTACTTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGGGCCTCAA
CCTCCTCTTCCTGCTGTCCCAGAACCGGGTGGCTGAGTTCCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGTT
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA
GATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTTCAACAC
ACCCAAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCTGGGGCCCCAACAACTACTACAGTTTTGCCAG
CCAGCAGCAGAAGCCGGAAGACACCACCATTCCTCCACAGAACTGGCCAAACAGGTCATCGAGTATGCCCCGCA
GCTGGAGATGATCGTCTTGAGCCCCCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAACAGTTACACTGCA
GGGTTTCGCCCAATAAAGGTGGACTGAC

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FIGURE 96

MYEQLKGEWNRKSPNLSKCGEELGRLKLVLELNFLPTTGTKLTKQQLILARDILEIGAQWSILRKDIPSFERYM
AQLKCYFFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLEQYLMEGSYNK
VFLAKGNIPAESYTFFIDILLDTIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMTDYAKKRGWVLGPNNYYSF
ASQQQKPEDTTIPSTELAKQVIEYARQLEMIV

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FIGURE 97

GGCACGAGGATGGAGGAGGGAGGCCGGGACAAGGCGCCGGTGCAGCCCCAGCAGTCTCCAGCGGCGGCCCCCGGC
GGCACGGACGAGAAGCCGAGCGGCAAGGAGCGGCGGGATGCCGGGGACAAGGACAAAGAACAGGAGCTGTCTGAA
GAGGATAAACAGCTTCAAGATGAACTGGAGATGCTCGTGGAACGACTAGGGGAGAAGGATACATCCCTGTATCGA
CCAGCGCTGGAGGAATTGCGAAGGCAGATTTCGTTCTTCTACAACCTTCCATGACTTCAGTGCCCAAGCCTCTCAAA
TTTCTGCGTCCACACTATGGCAAACCTGAAGGAAATCTATGAGAACATGGCCCCCTGGGGAGAATAAGCGTTTTGCT
GCTGACATCATCTCCGTTTTGGCCATGACCATGAGTGGGGAGCGTGAGTGCCTCAAGTATCGGCTAGTGGGCTCC
CAGGAGGAATTGGCATCATGGGGTCATGAGTATGTCAGGCATCTGGCAGGAGAAGTGGCTAAGGAGTGGCAGGAG
CTGGATGACGCAGAGAAGGTCCAGCGGGAGCCTCTGCTCACTCTGGTGAAGGAAATCGTCCCCCTATAACATGGCC
CACAATGCAGAGCATGAGGCTTGGGACCTGCTTATGGAAATTGAGCAGGTGGACATGCTGGAGAAGGACATTGAT
GAAAATGCATATGCAAAGGTCTGCCTTTATCTCACCAGTTGTGTGAATTACGTGCCTGAGCCTGAGAACTCAGCC
CTACTGCGTTGTGCCCTGGGTGTGTTCCGAAAGTTTAGCCGCTTCCCTGAAGCTCTGAGATTGGCATTGATGCTC
AATGACATGGAGTTGGTAGAAGACATCTTCACCTCCTGCAAGGATGTGGTAGTACAGAAACAGATGGCATTTCATG
CTAGGCCGGCATGGGGTGTTCCTGGAGCTGAGTGAAGATGTCGAGGAGTATGAGGACCTGACAGAGATCATGTCC
AATGTACAGCTCAACAGCAACTTCTTGGCCTTAGCTCGGGAGCTGGACATCATGGAGCCCCAAGGTGCCGTGATGAC
ATCTACAAAACCCACCTAGAGAACAACAGGTTTGGGGGAGTGGCTCTCAGGTGGACTCTGCCCCGATGAACCTG
GCCTCCTCTTTTGTGAATGGCTTTGTGAATGCAGCTTTTGGCCAAGACAAGCTGCTAACAGATGATGGCAACAAA
TGGCTTTACAAGAACAAGGACCACGGAATGTTGAGTGCAGCTGCATCTCTTGGGATGATTCTGCTGTGGGATGTG
GATGGTGGCCTCACCCAGATTGACAAGTACCTGTACTCCTCTGAGGACTACATTAAGTCAGGAGCTCTTCTTGCC
TGTGGCATAGTGAACCTCTGGGGTCCGGAATGAGTGTGACCCTGCTCTGGCACTGCTCTCAGACTATGTTCTCCAC
AACAGCAACACCATGAGACTTGGTTCCATCTTTGGGCTAGGCTTGGCTTATGCTGGCTCAAATCGTGAAGATGTC
CTAACACTGCTGCTGCCTGTGATGGGAGATTCAAAGTCCAGCATGGAGGTGGCAGGTGTACAGCTTTAGCCTGT
GGAATGATAGCAGTAGGGTCTGCAATGGAGATGTAACCTTCCACTATCCTTCAGACCATCATGGAGAAGTCAGAG
ACTGAGCTCAAGGATACTTATGCTCGTTGGCTTCCCTCTTGGACTGGGTCTCAACCACCTGGGGAAAGGGTGAGGCC
ATCGAGGCAATCCTGGCTGCACTGGAGGTTGTGTGAGAGCCATTCCGCAGTTTTTGCCAACACACTGGTGGATGTG
TGTGCATATGCAGGCTCTGGGAATGTGCTGAAGGTGCAGCAGCTGCTCCACATTTGTAGCGAACACTTTGACTCC
AAAGAGAAGGAGGAAGACAAAGACAAGAAGGAAAAGAAAGACAAGGACAAGAAGGAAGCCCCCTGCTGACATGGGA
GCACATCAGGGAGTGGCTGTTCTGGGGATTGCCCTTATTGCTATGGGGGAGGAGATTGGTGCAGAGATGGCATT
CGAACCTTTGGCCACTTGCTGAGATATGGGGAGCCTACACTCCGGAGGGCTGTACCTTTAGCACTGGCCCTCATC
TCTGTTTTCAAATCCACGACTCAACATCCTGGATACCCTAAGCAAATTCTCTCATGATGCTGATCCAGAAGTTTCC
TATTACTCCATTTTTTGCCATGGGCATGGTGGGCAGTGGTACCAATAATGCCCGTCTGGCTGCAATGCTGCGCCAG
TTAGCTCAATATCATGCCAAGGACCCAAACAACCTTTCATGGTGCCTTGGCACAGGGCCTGACACATTTAGGG
AAGGGCACCTTACCCTCTGCCCCCTACCACAGCGACCGGCAGCTTATGAGCCAGGTGGCCGTGGCTGGACTGCTC
ACTGTGCTTGTCTCTTTCTGGATGTTGCGAAACATTATTCTAGGCAAATCACACTATGTATTGTATGGGCTGGTG
GCTGCCATGCAGCCCCGAATGCTGGTTACGTTTGATGAGGAGCTGCGGCCATTGCCAGTGTCTGTCCGTGTGGGC
CAGGCAGTGGATGTGGTGGGCCAGGCTGGCAAGCCGAAGACTATCACAGGGTCCAGACGCATACAACCCAGTG
TTGTTGGCCACGGGGAACGGGCAGAATTGGCCACTGAGGAGTTTCTTCTGTTACCCCCATTCTGGAAGGTTTT
GTTATCCTTCGGAAGAACCCCAATTATGATCTCTTAAGTGACCACCAGGGGCTCTGAACTGCAGCTGATGTTATCA
GCAGGCCATGCATCCTGCTGCCAAGGGTGGACACGGCTGCAGACTTCTGGGGGAATTGTCGCCTCCTGCTCTTTT
GTTACTGAGTGAGATAAGGTTGTTCAATAAAGACTTTTATCCCCAAGGTCAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 98

MEEGGRDKAPVQPQQSPAAAPGGTDEKPSGKERRDAGDKDKEQEELSEEDKQLQDELEMLVERLGEKDTSLYRPAL
EELRRQIRSSTTSMTSVPKPLKFLRPHYGKLKEIYENMAPGENKRFAADIISVLAMTMSGERECLKYRLVGSQEE
LASWGHEYVRHLAGEVAKEWQELDDAEKVQREPLLTIVKEIVPYNMAHNAEHEACDLLMEIEQVDMLEKDIDENA
YAKVCLYLTSCVNYVPEPENSALLRCALGVFRKFSRFPEALRLALMLNDMELVEDIFTCKDVVVQKQMAFMLGR
HGVFLELSEDEV EYEDLTEIMSNVQLNSNFLALARELDIMEPKVPDDIYKTHLENNRFGGSGSQVDSARMNLASS
FVNGFVNAAFQDKLLTDDGNKWLYKNKDHGMLSAAAASLG MILLWDVDGGLTQIDKYLYSSEDIKSGALLACGI
VNSGVRNECDPALALLSDYVLHNSNTMRLGSIFGLGLAYAGSNREDVLTLLLPVMGDSKSSMEVAGVTALACGMI
AVGSCNGDVTSTILQTIMEKSETELKDTYARWLPLGLGLNHLGKGEAIEAILAALEVVSSEPFERSFANTLVDCAY
AGSGNVLVKQQLLHICSEHFDSKEKEEDKDKKEKKDKDKKEAPADMGAHQGVAVLGIALIAMGEEIGAEMALRTF
GHLLRYGEPTLRRVPLALALISVSNPRLNILDTLSEKSHDADPEVSYYSIFAMGMVSGTNNARLAAMLRLAQ
YHAKDPNNLFMVRLAQGLTHLGKGTLTLCOPYHSDRQLMSQVAVAGLLTVLVSF LDVRNII LGKSHYVLYGLVAAM
QPRMLVTFDEELRPLPVSVRVGQAVDVVGQAGPKTITGFTHTTPVLLAHGERAEELATEEFLPVTPILEGFVIL
RKNPNYDL

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FIGURE 99A

1ATACTTCGCTACTTGGCTAGAGTTGCAACTACAGCTGGGTTATATGGCTCTAATCTGATCGAACATACTGAGAT
TGATCACTGGTTGGAGTTCAGTGCTACAAAATTATCTTCATGTGATTCCCTTTACTTCTACAATTAATGAACTCAA
TCATTGCCTGTCTCTGAGAACATACTTAGTTGGAACTCCTTGAGTTTAGCAGATTTATGTGTTTGGGCCACCCCT
AAAAGGAAATGCTGCCTGGCAAGAACAGTTGAAACAGAAAGCTCCAGTTCATGTAAAACGTTGGTTTTGGCTT
GGAAGCCCAGCAGGCCCTTCCAGTCAGTAGGTACCAAGTGGGATGTTTCAACAACCAAAGCTCGAGTGGCACC
GAAAAGCAAGATGTTGGGAAATTTGTTGAGCTTCCAGGTGCGGAGATGGGAAAGGTTACCGTCAGATTTCC
AGAGGCCAGTGGTTACTTACACATTGGGCATGCAAAAGCTGCTCTTCTGAACCAGCACTACCAGGTTAACTT
GAAAGGGAACTGATCATGAGATTTGATGACACAAATCCTGAAAAAGAAAAGGAAGATTTTGAGAAGGTTATCTT
AGATGTTGCAATGTTGCATATCAAACCAGATCAATTTACTTATACTTCGGATCATTTTGAAACTATAATGAA
TGTCAGAGAAGCTAATTCAGAAGGGAAGGCTTATGTGGATGATACTCCTGCTGAACAGATGAAAGCAGAACG
TCAGAGGATAGAATCTAAACATAGAAAAACCCTATTGAGAAGAATCTACAAATGTGGGAAGAAATGAAAAA
GAGCCAGTTTGGTCACTCCTGTTGTTTGGGAGCAAAAATTGACATGAGTAGTAACAATGGATGCATGAGAGA
CAACCCTTTATCGCTGCAAAATTCAACCACATCCAAGAACTGGAAATAAATACAATGTTTATCCAACATATGA
TTGCCTGCCCCATAGTTGACAGCATCGAAGGTGTTACACATGCCCTGAGAACAACAGAATACCATGACAGAGA
TGAGCAGTTTTACTGGATTATTGAAGCTTTAGGCATAAGAAAACCATATATTTGGGAATATAGTCGGCTAAATCT
CAACAACACAGTGCTATCCAAAAGAAAACCTCACATGGTTTGTCAATGAAGGACTAGTAGATGGATGGGATGACCC
AAGATTTCTACGGTTTCGTGGTGTACTGAGAAGAGGGATGACAGTTGAAGGACTGAAACAGTTTATTGCTGCTCA
GGGCTCCTCACGTTTCAGTCGTGAACATGGAGTGGGACAAAATCTGGGCGTTTAAACAAAAGGTTATTGACCCAGT
GGCTCCACGATATGTTGCATTACTGAAGAAAAGAAGTGATCCCAGTGAATGTACCTGAAGCTCAGGAGGAGATGAA
AGAAGTAGCCAAACACCCAAAGAATCCTGAGGTTGGCTTGAAGCCTGTGTGGTATAGTCCCAAAGTTTTTCATTGA
AGGTGCTGATGCAGAGACTTTTTTCGGAGGGTGAGATGGTTACATTTATAAATTGGGGCAACCTCAACATTACAAA
AATACACAAAATGCAGATGGAAAAATCATATCTCTTGATGCAAAGTTTAATTTGGAAAACAAAGACTACAAGAA
AACCCTAAGGTCACTTGGCTTGCAGAGACTACACATGCTCTTCTTATTCCAGTAATCTGTGTCACTTATGAGCA
CTTGATCACAAAGCCAGTGCTAGGAAAAGACGAGGACTTTAAGCAGTATGTCAACAAGAACAGTAAGCATGAAGA
GCTAATGCTAGGGGATCCCTGCCTTAAGGATTTGAAAAAGGAGATATTATACAACCTCCAGAGAAGAGGATTCTT
CATATGTGATCAACCTTATGAACCTGTTAGCCCATATAGTTGCAAGGAAGCCCCGTGTGTTTTGATATACATTCC
TGATGGGCACACAAAGGAAATGCCAACATCAGGGTCAAAGGAAAAGACCAAAGTAGAAGCCACAAAAATGAGAC
CTCTGCTCCTTTTAAGGAAAGACCAACACCTTCTCTGAATAATAATTGTAATCTGAGGATTCCCTTGGTCCT
TTACAATAGAGTGGCTGTTCAAGGAGATGTGGTTCGTGAATTAAGGCAAGAAAGCACCAGGAAGATGTAGA
TGCAGCTGTAAACAGCTTTTGTCTTTGAAAGCTGAATATAAGGAGAAAAGTGGCCAGGAATATAAACCTGGAAA
CCCTCCTGCTGAAATAGGACAGAATATTTCTTCTAATTCCTCAGCAAGTATTCTGGAAAGTAAATCTCTGTATGA
TGAAGTTGCTGCACAAGGGGAGGTGGTTCGTAAGCTAAAAGCTGAAAAATCCCCTAAGGCTAAAATAAATGAAGC
TGTAAGATGCTTACTGTCCCTGAAGGCTCAGTATAAAGAAAAAACTGGGAAGGAGTACATACCTGGTCAGCCCCC
ATTATCTCAAAGTTCCGATTCAAGCCCAACCAGAAATCTGAACCTGCTGGTTTAGAAACACCAGAAGCGAAAGT
ACTTTTTGACAAAGTAGCTTCTCAAGGGGAAGTAGTTCGGAACTTAAACTGAAAAAGCCCCCTAAGGATCAAGT
AGATATAGCTGTTCAAGAACTCCTTCAGCTAAAGGCACAGTACAAGTCTTTGATAGGAGTAGAGTATAAGCCTGT
GTCGGCCACTGGAGCTGAGGACAAAGATAAGAAGAAGAAAAGAAAAAGAAAATAAATCTGAAAAGCAGAATAAGCC
TCAGAAACAAAATGATGGCCAAAGGAAAGACCTTCTAAAAACCAAGGAGGTGGGCTCTCATCAAGTGGAGCAGG
AGAAGGGCAGGGGCCAAGAAACAGACCAGGTTGGGTCTTGAGGCAAAAAAGAAAGAAAATCTTGCTGATTGGTA
TTCTCAGGTCATCACAAAGTCAGAAATGATTGAATACCATGACATAAGTGGCTGTTATATTCTTCGTCCCTGGGC
CTATGCCATTTGGGAAGCCATCAAGGACTTTTTTGATGCTGAGATCAAGAACTTGGTGTGAAAAGTCTACTT
CCCCATGTTTGTGCTCAAAGTGCATTAGAGAAAGAGAAGACTCATGTTGCTGACTTTGCCCCAGAGGTTGCTTG
GGTTACAAGATCTGGCAAACCGAGCTGGCAGAACCAATTGCCATTCTGCTCTAGTGAAACAGTAATGTATCC
TGCATATGCAAAAATGGGTACAATCACACAGAGACCTGCCCATCAAGCTCAATCAGTGGTGCAATGTGGTGCGTTG
GGAATTCAAGCATCCTCAGCCTTTCTACGTACTCGTGAATTTCTTTGGCAGGAAGGGGCACAGTGCTTTTGCTAC
CATGGAAGAGGCAGCGGAAGAGGTCTTGAGATACTTGACTTATATGCTCAGGTATATGAAGAACTCCTGGCAAT
TCCTGTTGTTAAAGGAAGAAAGACGGAAGGAAAAATTTGCAGGAGGAGACTATACAACCTACAATAGAAGCATT
TATATCTGCTAGTGGAAGAGCTATCCAGGGAGGAACATCACATCATTTAGGGCAGAATTTTTCCAAAATGTTTGA

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FIGURE 99B

AATCGTTTTTGAAGATCCAAAGATACCAGGAGAGAAGCAATTTGCCTATCAAACTCCTGGGGCCTGACAACTCG
AACTATTGGTGTATGACCATGGTTCATGGGGACAACATGGGTTTAGTATTACCACCCCGTAGCATGTGTTCA
GGTGGTGATTATTCCTTGTGGCATTACCAATGCACTTTCTGAAGAAGACAAAGAAGCGCTGATTGCAAAATGCAA
TGATTATCGAAGGCGATTACTCAGTGTTAACATCCGCGTTAGAGCTGATTTACGAGATAATTATTCTCCAGGTTG
GAAATTCAATCACTGGGAGCTCAAGGGAGTTCCCATTAGACTTGAAGTTGGGCCACGTGATATGAAGAGCTGTCA
GTTTGTAGCCGTCAGACGAGATACTGGAGAAAAGCTGACAGTTGCTGAAAATGAGGCAGAGACTAAACTTCAAGC
TATTTTGAAGACATCCAGGTCACCCTTTTCACAAGGGCTTCTGAAGACCTTAAGACTCATATGGTTGTGGCTAA
TACAATGGAAGACTTTCAGAAGATACTAGATTCTGGAAAGATTGTTTCAGATTCCATTCTGTGGGGAAATTGACTG
TGAGGACTGGATCAAAAAGACCACTGCCAGGGATCAAGATCTTGAACCTGGTGCTCCATCCATGGGAGCTAAAAG
CCTTTGCATCCCCTTCAAACCACTCTGTGAACTGCAGCCTGGAGCCAAATGTGTCTGTGGCAAGAACCCTGCCAA
GTACTACACCTTATTTGGTCGCAGCTACTGAGGGATGAACGAAAGCCCCCTCTTCAACTCCTCTCACTTTTAAA
GCATTGATATTAGTATCTTCTCAGATACAGACCGTTTTATGATTTTTTAAAAAGTAAAAGTTCTAAAATGAAGTC
ACACAGGACAATTATTCTTATGCCTAAGTTAACAGTGGATAAAAGACTTTTCTGTAAACAACCTCCAGTAATAAAT
ATCATGAACTA

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FIGURE 100

MEHTEIDHWLEFSATKLSSCDSFTSTINELNHCLSLRXYLVGNSLSLADLCVWATLKGNAAWQEQLKQKKAPVHV
KRWFGFLEAQAFQSVGKWDVSTTKARVAPEKKQDVGKFVELPGAEMGKVTVRFPPEASGYLHIGHAKAALLNQ
HYQVNFKGKGLIMRFDDTNPEKEKEDFEKVILEDVAMLHIKPDQFTYTSDFHETIMKYAEKLIQEGKAYVDDTPAE
QMKAREQRIESKHKRNP IEKNLQMWEEEMKKGSQFGHSCCLRAKIDMSSNNGCMRDPTLYRCKIQPHPRGTGNKYN
VYPTYDFACPIVDSIEGVTHALRTTEYHDRDEQFYWIEALGIRKPYIWEYSRLNLTNTVLSKRKLTWVFVNEGLV
DGWDDPRFPTVRGVLRRGMTVEGLKQFIAAQGSSRSVVMWEWDKIWAFNKKVIDPVAPRYVALLKKEVIPVNVPE
AQEEMKEVAKHPKNPEVGLKPVWYSPKVFIEGADAETFSEGEVMVTFINWGNLNTITKIHKNADGKIISLDAKFNLE
NKDYKKTTKVTWLAETTHALP IPVICVTYEH LITKPVLGKDEDFKQYVKNKNSKHEELMLGDPCLKDLKKGDI IQL
QRRGFFICDQPYEPVSPYSCKEAPCVLIYIPDGHTKEMPTSGSKEKTKVEATKNETSAPFKERPTPSLNNNCTTS
EDSLVLYNRVAVQGDVVRELKAKKAPKEDVDAVKQLLSLKAQYKEKTGQYKPGNPPAEIGQNISSNSSASILE
SKSLYDEVAQAQGEVVRKLKAEKSPKAKINEAVECLLSLKAQYKEKTGKEYIPGQPPLSQSSDSSPTRNSEPAGLE
TPEAKVLFDKVASQGEVVRKLKTEKAPKDQVDIAVQELLQLKAQYKSLIGVEYKPVSAATGAEDKDKKKKEKENKS
EKQNKPKQKQNDGQRKDP SKNQGGGLSSSGAGEGQPKKQTRLGLEAKKEENLADWYSQVITKSEMIYHDISGCY
ILRPWAYAIWEAIKDFDAEIKKLGVENCYFPMFVSQSALEKEKTHVADFAPEVAWVTRSGKTELAEP IAIRPTS
ETVMYPAYAKWVQSHRDLPIKLNQWCNVVRWEFKHPQPFLLRTREFLWQEGHSAFATMEEAAEEVLQILDLYAQVY
EELLAIPVVKGRKTEKEKFAGGDYTTTIEAFISASGRAIQGGTSHHLGQNF SKMFEIVFEDPKIPGEKQFAYQNS
WGLTTRTIGVMTMVHGDNMGLVLPVRVACVQVVIIPCGITNALSEEDKEALIAKCN DYRRRLSVNIRVRADLRD
NYS PGWKFNHWELKGVP IRLEVGP RDMKSCQFVAVRRDTGEKLTVAENEAETKLQAILEDIQVTLFTRASEDLKT
HVVANTMEDFQKILDSGKIVQIPFCGEIDCEDWIKKTTARDQDLEPGAPSMGAKSLCIPFKPLCELPQGAKCVC
GKNPAKYTYTLFGRSY

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FIGURE 101

AGAATACACTCACAAGCCACTCCGCTGCTCGCCTCTCCGCCCCGCGTCCAGCTCGCCCAGCTCGCCCAGCGTCCG
CCGCGCCTCGCCAAGGCTTCAACGGACCACACCAAAATGCCATCTCAAATGGAACACGCCATGGAAACCATGATG
TTTACATTTACAAATTCGCTGGGGATAAAGGCTACTTAACAAAGGAGGACCTGAGAGTACTCATGGAAAAGGAG
TTCCCTGGATTTTTGGAAAATCAAAAAGACCCTCTGGCTGTGGACAAAATAATGAAGGACCTGGACCAGTGTAGA
GATGGCAAAGTGGGCTTCCAGAGCTTCTTTTCCCTAATTGCGGGCCTCACCATTGCATGCAATGACTATTTTGTA
GTACACATGAAGCAGAAGGGAAAGAAGTAGGCAGAAATGAGCAGTTCGCTCCTCCCTGATAAGAGTTGTCCAAAG
GGTCGCTTAAGGAATCTGCCCCACAGCTTCCCCCATAGAAGGATTTTCATGAGCAGATCAGGACACTTAGCAAATG
TAAAAATAAAATCTAACTCTCATTGACAAGCAGAGAAAGAAAGTTAAATACCAGATAAGCTTTTGATTTTGT
ATTGTTTGCATCCCCTTGCCCTCAATAAAATAAGTTCTTTTTTAGTTCC

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FIGURE 102

MPSQMEHAMETMMFTFHKFAGDKGYLTKEDLRVLMEKEFPGFLENQKDPLAVDKIMKDLDQCRDGKVGFSFFSL
IAGLTIAACNDYFVVHMKQKGKK

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FIGURE 103

CGCGTGAAGCTGCTTCCTGCAGGCTGGCCATGCGCGCTTCACGTTCCCAAGGCTCCGGGCTTTGCCCAGATGCTCAA
GGAGGGAGCGAAACACTTTTCAGGATTAGAAGAGGCTGTGTATAGAAACATACAAGCTTGCAAGGAGCTTGCCCA
AACCACCTCGTACAGCATATGGACCAAAAGGAATGAACAAAATGGTTATCAACCACCTGGAGAAGTTGTTTGTGAC
AAACGATGCAGCAACTATTTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCTTCTCA
TATGCAAGAGCAAGAAGTTGGAGATGGCACAACTTTGTTCTGGTATTTGCTGGAGCTCTCCTGGAATTAGCTGA
AGAAGTTCTGAGGATTGGCCTGTCAGTTTCAGAGGTCATAGAAGGTTATGAAATAGCCTGCAGAAAAGCTCATGA
GATTCTTCCTAATTTGGTATGTTGTTCTGCAAAAACCTTCGAGATATTGATGAAGTCTCATCTCTACTTCGTAC
CTCCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGCTCAGGCATGCGTATCTATTTT
TCCTGATTCCGGCCATTTCAATGTTGATAACATCAGAGTTTGTAATAATTCTGGGCTCTGGTATCAGTTCCTCTTC
AGTATTGCATGGCATGGTTTTTAAGAAGGAAACCGAAGGTGATGTAACATCTGTCAAAGATGCAAAAATAGCAGT
GTACTCTTGTCTTTTGGATGGCATGATAACAGAACTAAGGGAACAGTGTTGATAAAGACTGCTGAAGAATTGAT
GAATTTTAGTAAGGGAGAAGAAAACCTCATGGATGCACAAGTCAAAGCTATTGCTGATACTGGTGCAAAATGTCGT
AGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGCAAATAAATATAATATCATGTTAGTGAGGCTAAA
CTCAAAATGGGATCTCCGAAGACTTTGTAAACTGTTGGTGCTACAGCTCTTCCTAGATTGACACCTCCTGTCCT
TGAAGAAATGGGACACTGTGACAGTGTTCCTCTCAGAAGTTGGAGATACTCAGGTGGTGGTTTTTAAGCATGA
AAAGGAAGATGGCGCCATTTCTACCATAGTACTTCGAGGCTCTACAGACAATCTGATGGATGACATAGAAAGGGT
AGTAGACGATGGTGTTAATACTTTCAAAGTTCTTACAAGGGATAAACGTCTTGTAACCGGAGGTGGAGCAACAGA
AATTGAATTAGCCAAACAGATCACATCATATGGAGAGACATGTCCTGGACTTGAACAGTATGCTATTAAGAAGTT
TGCTGAGGCATTTGAAGCTATTCCTCGCGCACTGGCAGAAAACCTCTGGAGTTAAGGCCAATGAAGTAATCTCTAA
ACTTTATGCAGTACATCAAGAAGGAAATAAAAACGTTGGATTAGATATTGAGGCTGAAGTCCCTGCTGTAAAGGA
CATGCTGGAAGCTGGTATTCTAGATACTTACCTGGGAAAATATTGGGCTATCAAACCTCGCTACTAATGCTGCAGT
CACTGTACTTAGAGTGGATCAGATCATATGGCAAAACAGCTGGTGGGCCCAAGCCTCCAAGTGGGAAGAAAGA
CTGGGATGATGACCAAAATGATGAAATTGGCTTAATTTTTACTGTAGGTGAAGGCTGTATTTGTAGTAGTACTC
AAGAATCACCTGATGTTTTCTTATTCTCCTTAAATTAAGAGTTATTTTGTGTTTGTATTCTTGGCTGGATGTTAT
AATAAACATATTGTTACTGTC

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FIGURE 104

MALHVPKAPGFAQMLKEGAHFSGLEEAVYRNIQACKELAQTTRTAYGPKGMNKMVINHLEKLFVTNDAATILRE
LEVQHPAAKMIVMASHMQEQEVGDGTNFVLVFAGALLELAEELLRIGLSVSEVIEGYEIACRKAHEILPNLVCCS
AKNLRDIDEVSSLLRTSIMSKQYGNFVFLAKLIAQACVSIFPDSGHFNVDNIRVCKILGSGISSSSVLHGMVFKK
ETEGDVTSVKDAKIAVYSCPFDMITETKGTVLIKTAEELMNFSGKEENLMDAQVKAIADTGANVVVTGGKVADM
YANKYNIMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCDVYLSEVGDTQVVVFKHEKEDGAISTI
STDNLMDDIERVVDDGVNTFKVLTRDKRLVPGGGATEIELAKQITSYGETCPGLEQYAIKKFAEAFEIPR
AENSGVKANEVISKLYAVHQEGNKVGLDIEAEVPAVKDMLEAGILDTYLGKYWAIKLATNAAVTVLRVDQII
AKPAGGPKPPSGKKDWDQND

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FIGURE 105

GGATCCGGCAACGAAGGTACCAATGGCGGGACGTGGCGCCATGGTGCTGTTGCACGTGCTGTTTGAGCACGCGGTC
GGCTACGCGCTCGTGGCGCTGAAGGAAGTGGAGGAGATCAGTCTGCTGCAGCCGCAGGTGGAGGAGTCCGTGCTC
AACCTGGGCAAATTCCACAGCATCGTTCTGCTGGTGGCCTTTTGTCCCTTTGCCTCATCCCAGGTTGCCTTGAA
AATGCCAACGCCGTGTCTGAAGGGGTGTTTCATGAGGACCTCCGCCTGCTCTTGAGACCCACCTGCCGTCCAAA
AAGAAGAAAGTACTCTTGAGGAGTTGGGGATCCCAAGATTGGTGCCGCAATACAGGAGGAGTTAGGGTACAATGC
CAGACTGGAGGAGTCATAGCTGAGATCCTGCGAGGAGTTCTGCTGCACTTCCACAATCTGGTGAAGGGTCTGACC
GATCTGTCTAGCTTGTAAGCACAGCTGGGGCTGGGACACAGCTATTCCCGTGCCAAAGTTAAGTTTAATGTGAAC
CGGGTGGACAATATGATCATCCAGTCCATTAGCCTCCTGGACCAGCTGGATAAGGACATCAATACCTTCTCTATG
CGTGTCAGGGAGTGGTACGGGTATCATTTCGGGAGCTGGTGAAGATCATCAACGACAATGCCACATACTGCCGT
CTTGCCCAAGTTTATTGGAAACCGAAGGGAAGTGAATGAGGACAAGCTGGAGAAGCTGGAGGAGCTGACAATGGAT
GGGGCCAAGGCTAAGGCTATTCTGGATGCCTCACGGTCCCTCCATGGGCATGGACATATCTGCCATTGACTTGATA
AACATCGAGAGCTTCTCCAGTCTGTGTGGTGTCTTTATCTGAATACCGCCAGAGCCTACACACTTACCTGCGCTCC
AAGATGAGCCAAGTAGCCCCCAGCCTGTCTAGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCT
GGCAGCCTCACCAACCTGGCCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCCTGTTTCTGAG
GCCCTGAAGACAAGGGGTAACTCCAAAATATGGACTCATTTTCCACTCCACCTTCATTGGCCGAGCAGCTGCC
AAGAACAAGGCCGCATCTCCCGATACCTGGCAAACAATGCAGTATTGCCTCACGAATCGATTGCTTCTCTGAG
GTGCCCACGAGTGTATTGCGGGAGAAGCTTCGAGAACAAGTTGAAGAGCGACTGTCCTTCTATGAGACTGGAGAG
ATACCACGAAAGAATCTGGATGTCATGAAGGAAGCAATGGTTTCAGGCAGAGGCAGAGGAAGCGGCTGCTGAGATT
ACTAGGAAGCTGGAGAAACAGGAGAAGAAACGCTTAAAGAAGGAAAAGAAACGGCTGGCTGCACTTGCCTTCGCG
TCTTCAGAAAACAGCAGTAGTACTCCAGAGGAGTGTGAGGAGACGAGTGAAAAACCCAAAAAGAAAAAGCAA
AAGCCCCAGGAGGTTCCCTCAGGAGAATGGAATGGAAGACCCATCTATCTCTTCTCCAAACCAAGAAAAAGAAA
TCTTTTTCCAAGGAGGAGTTGATGAGTAGCGATCTTGAAGAGACCGCTGGCAGCACCAGTATCCCAAGAGGAAG
AAGTCTACACCAAGGAGGAAACAGTTAATGACCCTGAGGAGGCAGGCCACAGAAGTCGGTCCAAGAAAAAGAGG
AAATTCTCCAAAGAGGAGCCGCTCAGCAGTGGGCCTGAAGAGGCGGTTGGCAAGAGCAGCTCCAAGAAGAAGAAA
AAGTTCCATAAAGCATCCCAGGAAGATTAGAATGCAATGGACATTCTCTGGGAGGTGGGGCATACCATAGCCCA
AGGTGACATTTCCACCCCTGTGCCGTGTTCCCAATAAAAAACAAATTCACAAGAAAAAAAAAAAAAAAAAAAAA
TTCTGAGGCCGCAAGGAATTC

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FIGURE 106

MAGRGAMVLLHVLFEHAVGYALVALKEVEEISLLQPQVEESVLNLGKFHSIVRLVAFPCPFASSQVALENANAVSE
GVVHEDLRLLETHLPSKKKKVLLGVGDPKIGAAIQEELGYNCQTGGVIAEILRGVRLHFHNLVKGLTDLSACKA
QLGLGHSYSRAKVKFVNRVDNMIIQSISLLDQLDKDINTFSMRVREWYGYHFPPELVKIINDNATYCRLAQFIGN
RRELNEDKLEKLEELTMDGAKAKAILDASRSSMGMDISALINIESFSSRVVSLSEYRQSLHTYLRSKMSQVAP
SLSALIGEAVGARLIAHAGSLTNLAKYPASTVQILGAEKALFRALKTRGNTPKYGLIFHSTFIGRAAAKNKGRIS
RYLANKCSIASRIDCFSEVPTSVFGEKLRQVEERLSFYETGEIPRKNLDVMKEAMVQAEAEAAAAEITRKLEKQ
EKKRLKKEKKRLAALALASSENSSTPEECEETSEKPKKKKKQKPQEVPOENGMEDPSISFSKPKKKKSFSKEEL
MSSDLEETAGSTSIPKRKKSTPKEETVNDPEEAGHRSRSKKKRKFKEEPVSSGPPEAVGKSSSKKKKKFHKASQ
ED

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FIGURE 107

CGCAGCCGTGCGATGTTGTCCTCTACAGCCATGTATTTCGGCTCCTGGCAGAGACTTGGGGATGGAACCGCACAGA
GCCGCGGGCCCTTTGCAGCTGCGATTTTCGCCCTACGTTTTCAACGGAGGTACTATACTGGCAATTGCTGGAGAA
GATTTTGCAATTGTTGCTTCTGATACTCGATTGAGTGAAGGGTTTTCAATTCATACGCGGGATAGCCCCAAATGT
TACAAATTAACAGACAAAACAGTCATTGGATGCAGCGGTTTTCATGGAGACTGTCTTACGCTGACAAAGATTATT
GAAGCAAGACTAAAGATGTATAAGCATTCCAATAATAAGGCCATGACTACGGGGGCAATTGCTGCAATGCTGTCT
ACAATCCTGTATTCAAGGCGCTTCTTTCCATACTATGTTTACAACATCATCGGTGGACTTGATGAAGAAGGAAAG
GGGGCTGTATACAGCTTTGATCCAGTAGGGTCTTACCAGAGAGACTCCTTCAAGGCTGGAGGCTCAGCAAGTGCC
ATGCTACAGCCCCTGCTTGACAACCAGGTTGGTTTTTAAGAACATGCAGAATGTGGAGCATGTTCCGCTGTCCTTG
GACAGAGCCATGCGGCTGGTGAAAGATGTCTTCATTTCTGCGGCTGAGAGAGATGTGTACACTGGGGACGCACTC
CGGATCTGCATAGTGACCAAAGAGGGCATCAGGGAGGAACTGTTTCCTTAAGGAAGGACTTGATCTGTGTGCTCT
TATACCAATCAGTTCAGACCTGGTTGATTTTGTACTTTGGAAGTGTACCTTGGATGGTTTTGTTTATTAAAA .

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FIGURE 108

MLSSTAMYSAPGRDLGMEPHRAAGPLQLRFSPYVFNGGTILAIAGEDFAIVASDTRLSEGFSIHTRDSPKCYKLT
DKTVIGCSGFHGDCLTLTKIIEARLKMYKHSNNKAMTTGAIAAMLSTILYSRRFFPYVYNIIGGLDEEGKGAVY
SFDVGSYQRDSFKAGGSASAMLQPLLDNQVGFKNMQNVEHVPLSLDRAMRLVKDVFISAAERDVYTGDAIRICI
VTKEGIREETVSLRKD

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FIGURE 109

ATGCCCCGAGAATGTGGCACCCCGGAGCGGGGCGACTGCCGGGGCTGCCGGCGGCCGCGGGAAAGGCGCCTATCAG
GACCGCGACAAGCCAGCCAGATCCGCTTCAGCAACATTTCCGCCGCCAAAGCGGTTGCTGATGCTATTAGAACA
AGCCTTGGACCAAAAGGAATGGATAAAATGATTCAAGATGGAAAAGGTGATGTAACCATTACAAATGATGGTGCT
ACCATTTCTGAAACAAATGCAAGTATTACATCCAGCAGCCAGAATGCTGGTGGAGCTGTCTAAGGCTCAAGATATA
GAAGCAGGAGATGGCACCACATCAGTAGTCATCATTGCTGGCTCCCTCTTAGATTCTTGTACCAAGCTTCTTCAG
AAAGGGATTTCATCCAACCATCATTCTCTGAGTCATTCCAGAAGGCCCTGGAAAAGGGCATTGAAATCTTGACTGAC
ATGTCTCGACCTGTGGAAGTGAAGTACAGAGAACTTTGTTAAATAGTGCAACCACTTCACTGAAGTCAAAGGTG
GTTTCTCAGTATTCAAGTCTGCTTTCTCCAATGAGTGTAAATGCAGTGATGAAAGTGATTGACCCAGCCACAGCC
ACCAAGTGTAGATCTTAGAGATATTAAATAGTTAAGAAGCTTGGTGGGACAATTGATGACTGTGAGTTGGTGGAA
GGGCTGGTTCACCCAAAAGTGTCAAATCTGGCATAACCAGAGTTGAAAAGGCCAAGATTGGGCTTATTTCAG
TTTTGCTTATCTGCTCCCAAACAGACATGGATAATCAAATAGTGGTTTCTGACTATGCCAGATGGACCGAGTG
CTGCGAGAAGAGAGAGCCTATATTTTAAATTTAGTGAAGCAAATTAACAAAACAGGATGTAATGTCCTTCTCATA
CAGAAATCTATTCTAAGAGATGCTCTTAGTGATCTTGCAATTACACTTTCTGAATAAAATGAAGATCATGGTGATT
AAGGATATTGAAAGAGAAGACATTGAATTCATTTGTAAGACAATTGGAACCAAGCCAGTTGCTCATATTGACCAA
TTTACTGCTGACATGCTGGGTTCTGCTGAGTTAGCTGAGGAGGTCAATTTAAATGGTTCTGGCAAACCTGCTCAAG
ATTACAGGCTGTGCCAGCCCTGGAAAAACAGTTACAATTGTTGTTTCGTGGTTCTAACAAACTGGTGATTGAAGAA
GCTGAGCGCTCCATTGATGATGCCCTATGTGTTATTCGTTGTTTAGTGAAGAAGAGGGCTCTTATTGCAGGAGGT
GGTGCTCCAGAAATAGAGTTGGCCCTAGCATTAACTGAATATTCACGAACACTGAGTGGTATGGAATCCTACTGC
GTTTCGTGCTTTTGAGATGCTATGGAGGTCAATCCATCTACACTAGCTGAAAATGCCGGCCTGAATCCCATTTCT
ACAGTAACAGAACTAAGAAACCGGCATGCCAGGGAGAAAAAACTGCAGGCATTAATGTCCGAAAGGGTGGTATT
TCCAACATTTTGGAGGAACTGGTTGTCCAGCCTCTGTTGGTATCAGTCAGTGCTCTGACTCTTGCAACTGAACT
GTTTCGGAGCATTCTGAAAATAGATGATGTGGTAAACACTCGATTAATCTGGATAACTGACTAGCACCATTATGATC
ACCAGTATTGTGGCTGGAATGGAAGAAGATCACCTTGGTGTTCCTTGTGTTGGAAGATTATTTCTCTGAATTTCT
GGGCTTGGTCTTCCAGTTGGCATTTCCTGAAAGTTGATTGAAACAATTTAATGAAAATATTAAATATTTGGTTT
CAAAAGGCAGATTTATCTTCTCCCAACATTCTGTTATTTCTGATACTTTTGAAAACTAATAAAAACTAATAAAA
GAAGCGTA

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FIGURE 110

MEENVAPRSGATAGAAGGRGKGAYQDRDKPAQIRFSNISAAKAVADAIARTSLGPKGMDKMIQDGKGDVTITNDGA
TILKQMQVLHPAARMLEVELSKAQDIEAGDGTTSVVIIAGSLDSC TKLLQKGIHPTIISSEFQKALEKGIEILTD
MSRPVELSDRETLLNSATTSLNSKVVSQYSSLLSPMSVNAV MKVIDPATATSVDLRDIKIVKKLG GTIDDCELVE
GLVLTQKVSNSGITRVEKAKIGLIQFCLSAPKTDMDNQIVSDYAQMDRVLREERAYILNLVKQIKKTGCNVLLI
LRDALSDLALHFLNKKIMVIKDIEREDIEFICKTIGTKPVAHIDQFTADMLGSAELAEVNLNGSGKLLK
ASPGKTVTIVVRGSNKLVEEAERSIHDALCVIRCLVKKRALIAGGGAPEIELALALTEYSRTLSGMESYC
--ADAMEVIPSTLAENAGLNPISTVTELRNRHAQGEKTAGINVRKGGISNILEELVVQPLLVSVSALT LATET
--SILKIDDVVNTR

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FIGURE 111

CTGCGGCGCGCCGGGCGGAACCTTTCTAGAACGCTCGGTGAGAGGCGGAGGAGCGGTAACTACCCCGGCTGCGCAC
AGCTCGGCGCTCCTTCCCCTCCCTCACACACCGGCCTCAGCCCGCACCGGCAGTAGAAGATGGTGAAAGAAACA
ACTTACTACGATGTTTTGGGGGTCAAACCCAATGCTACTCAGGAAGAATTGAAAAAGGCTTATAGGAACTGGCT
TTGAAGTACCATCCTGATAAGAACCCAAATGAAGGAGAGAAGTTTAAACAGATTTCTCAAGCTTACGAAGTTCTC
TCTGATGCAAAGAAAAGGGAATTATATGACAAAGGAGGAGAACAGGCAATTAAAGAGGGTGGAGCAGGTGGCGGT
TTTGGCTCCCCCATGGACATCTTTGATATGTTTTTGGAGGAGGAGGAAGGATGCAGAGAGAAAGGAGAGGTAAA
AATGTTGTACATCAGCTCTCAGTAACCTAGAAGACTTATATAATGGTGCAACAAGAAAAGTGGCTCTGCAAAAG
AATGTGATTTGTGACAAATGTGAAGGTAGAGGAGGTAAAGAAAGGAGCAGTAGAGTGCTGTCCCAATTGCCGAGGT
ACTGGAATGCAAATAAGAATTCATCAGATAGGACCTGGAATGGTTTCAGCAAATTCAGTCTGTGTGCATGGAGTGC
CAGGGCCATGGGGAGCGGATCAGTCCTAAAGATAGATGTAAAGCTGCAACGGAAGGAAGATAGTTTCGAGAGAAG
AAAATTTTAGAAGTTTCATATTGACAAAGGCATGAAAGATGGCCAGAAGATAACATTCCATGGTGAAGGAGACCA
GAACCAGGACTGGAGCCAGGCGATATTATCATTGTGTTAGATCAGAAGGACCATGCTGTTTTTACTCGACGAGGA
GAAGACCTTTTCATGTGTATGGACATACAGCTCGTTGAAGCACTGTGTGGCTTCCAGAAGCCAATATCTACTCTT
GACAACCGAACCATCGTCATCACCTCTCATCCAGGTGAGATTGTCAAGCATGGAGATATCAAGTGTGTACTAAAT
GAAGGCATGCCAATTTATCGTAGACCATATGAAAGGGTGCCTAATCATCGAATTTAAGGTAACTTTTCCTGAG
AATGGCTTTCTCTCTCTGATAAACTGTCTTTGCTGGAAAAGTCTTACCCGAGAGGAAGGAAGTGAAGAGACT
GATGAGATGGACCAAGTAGAACTGGTGGACTTTGATCCAAATCAGGAAAGACGGCGCCACTACAATGGAGAAGCA
TATGAGGATGATGAACATCATCCAGAGGTGGTGTTCAGTGTGAGACCTCTTAATGGGCCAGTGAATAACACTCA
CTGCTGGCATTAAATGTGCAGTAGTGAATGAGTGAAGGACTGTAATCATAATATGCTCACTACTTGCTCTTGTTT
TTGTTTTAATAAACTATAGTAGTGTTTTAAAAAGTTAAATGAAGAATAAACGCAAATATAAAAGCTCTGATTTTG
CCCTGTATGTATGATGACTTCAGTGTGCAAGATGAAGTTTAAATACCTGTAAAACTACAAAGAAGTTCCCCTAGC
ATTTCTAGGCCAAACCTTGTAATTGACTTCAGCTATGTACGTGGACAAGCTTAGACTGAAATGCTAGGTATATGT
ATTGGCTTCAGTGTATGACCTTCATTGTTAAGCTATGAAAGTAAAGTCTGTATTTAACTGGCAATGAGGAAAA
AAAAATTTTGTAGAGAAGTGTGGTCTGTATAGTTCTTTATATTAAGTGGGATTCATTGTAATGCCTCTGCATTT
ATTCTGTTGCCTCAGCTGTTACTTGAAGATGGCGTAATATATAATTTATCCTGTGGTATCAGTGATAAAAATGAT
ACCTTTCTGTAGGAGGGGTTTATCATAATATGCTGCTTCTTGAAGGCTTGCACTTCCAGAATTGTGTTTCTTCT
GCTGTGCCATTTCATATATATATACATATATATATATAATCTTGACCAGTCTGGTCAATTTGCTCCCCTCCTTGTC
TGTGGACCATGATAAGCCCAAGTAGTGACTTCAGAGCTGGGTAACAGAAATTAAAGTGAAGAGACCTTTACGTGG
AGAATTTGCATGCGTAATATAGGAAGGTGTTCTTTAGGTATGTTACAGGATTACTTTAAACCATTTGACTTTTCGC
TCCAAAGTTATGTTGGTAGTATAGCAAATTATGATGAATAGCTTTAATTGTATGTTTAAAGTCTCATATGTTCA
CATGCTTAAATCTGGGTATCAGAATTTAAGCAATTCTTGAAATGTATTGTCTCCTTAATATACTAATTACAAAGC
ATCTCCAATGTGTGTCACAGGCTTTTTTTTTCCAGATCATCAAATTTGGCTTTTAACTAAGATACATAGCT
TTATTTTAGCTAGTCTGAATGAGTGATACAAAAATACTATTGAAGTATAGTTAAATAATATTAAATAGGATGGAG
AGTAAAAGTGGAGGACTGGGTAATGAGCCAAGAAGAAGGGGTG

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FIGURE 112

MVKETTYDVLGVKPNATQEELKKAYRKLALKYHPDKNPNEGEKFKQISQAYEVLSDAKKRELYDKGGEQAIKEG
GAGGGFGSPMDIFDMFFGGGGRMQRERRGKNVVHQLSVTLEDLYNGATRKLALQKNVICDKCEGRGGKKGAVECC
PNCRGTMQIRIHQIGPGMVQQIQSVCMECQGHGERISPKDRCKSCNGRKIVREKKILEVHIDKGMKDGGQKITFH
GEGDQEPGLEPGDIIIVLDQKDHAVFTRGEDLFMCMDIQLVEALCGFQKPISTLDNRTIVITSHPGQIVKHGDI
KCVLNEGMPYRRPYEKGRLIIEFKVNFPENGFLSPDKLSLLEKLLPERKEVEETDEMDQVELVDFDPNQERRH
YNGEAYEDDEHHPRGGVQCQTS

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FIGURE 113

CGGTAAC TACCCCGGCTGCGCACAGCTCGGCGCTCCTTCCCGCTCCCTCACACACCGCCTCAGCCCGCACCGGCA
GTAGAAGATGGTGAAAGAAACAAC TACTACGATGTTTTGGGGGTCAAACCCAATGCTACTCAGGAAGAATTGAA
AAAGGCTTATAGGAAACTGGCCTTGAAGTACCATCCTGATAAGAACCCAAATGAAGGAGAGAAGTTTAAACAGAT
TTCTCAAGCTTACGAAGTTCTCTCTGATGCAAAGAAAAGGGAATTATATGACAAAGGAGGAGAACAGGCAATTAA
AGAGGGTGGAGCAGGTGGCGGTTTTGGCTCCCCATGGACATCTTTGATATGTTTTTTGGAGGAGGAGGAAGGAT
GCAGAGAGAAAAGGAGAGGTA AAAATGTTGTACATCAGCTCTCAGTAACCC TAGAAGACTTATATAATGGTGCAAC
AAGAAAAC TGGCTCTGCAAAAGAATGTGATTTGTGACAAATGTGAAGGTAGAGGAGGTAAGAAAGGAGCAGTAGA
GTGCTGTCCCAATTGCCGAGGTACTGGAATGCAAATAAGAATTCATCAGATAGGACCTGGAATGGTTCAGCAAAT
TCAGTCTGTGTGCATGGAGTGCCAGGGCCATGGGGAGCGGATCAGTCCTAAAGATAGATGTAAAAGCTGCAACGG
AAGGAAGATAGTTTCGAGAGAAGAAAATTTTAGAAGTTCATATTGACAAAGGCATGAAAGATGGCCAGAAGATAAC
ATTCCATGGTGAAGGAGACCAAGAACCAGGACTGGAGCCAGGCGATATTATCATTGTGT TAGATCAGAAGGACCA
TGCTGTTTTTACTCGACGAGGAGAAGACCTTTTTCATGTGTATGGACATACAGCTCGTTGAAGCACTGTGTGGCTT
CCAGAAGCCAATATCTACTCTTGACAACCGAACCATCGTCATCACCTCTCATCCAGGTCAGATTGTCAAGCATGG
AGATATCAAGTGTGTACTAAATGAAGGCATGCCAATTTATCGTAGACCATATGAAAAGGGTCGCCTAATCATCGA
ATTTAAGGTAAACTTTCTGAGAATGGCTTTCTCTCTCTCTGATAAACTGTCTTTGCTGGAAAACTCCTACCCGA
GAGGAAGGAAGTGGAAGAGACTGATGAGATGGACCAAGTAGAACTGGTGGACTTTGATCCAAATCAGGAAAGACG
GCGCCACTACAATGGAGAAGCATATGAGGATGATGAACATCATCCCAGAGGTGGTGTTCAGTGT CAGACCTCTTA
ATGGCCAGTGAATAACACTCACTGCTGGCATTTAATGTGCAGTAGTGAATGAGTGAAGGACTGTAATCATAATAT
GCTCACTACTTGCTCTTGTTTTTTGTTTTAATAAACTATAGTAGTGTATATAAAAAGTTAAATGAAGAATAAACGCA
AATATAAAAGCTC

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FIGURE 114

MVKETYYDVLGVKPNATQEELKKAYRKLALKYHPDKNPNEGEKFKQISQAYEVLSDAKKRELYDKGGEQAIKEG
GAGGGFGSPMDIFDMFFGGGGRMQRERRGKNVVHQLSVTLEDLYNGATRKLALQKNVICDKCEGRGGKKGAVECC
PNCRGTMQIRIHQIGPGMVQQIQSVCMECQGHGERISPKDRCKSCNGRKIVREKKILEVHIDKGMKDGQKITFH
GEGDQEPGLEPGDIIIVLDQKDHAVFTRRGEDLFMCMDIQLVEALCGFQKPISTLDNRTIVITSHPGQIVKHGDI
KCVLNEGMPYYRRPYEKGRLLIEFKVNFPENGFLSPDKLSLLEKLLPERKEVEETDEMDQVELVDFDPNQERRRH
YNGEAYEDDEHHPRGGVQCQTS

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FIGURE 115

GGGCGGGGTGCCGCATCCCCAGCCCGCCGCCATGCCCGCCTACAACTGGTGCTGATCCGGCACGGCGAGAGCGC
ATGGAACCTGGAGAACCGCTTCAGCGGCTGGTACGACGCCGACCTGAGCCCGGCGGGCCACGAGGAGGCGAAGCG
CGGCGGGCAGGCGCTACGAGATGCTGGCTATGAGTTTGACATCTGCTTACCTCAGTGCAGAAGAGAGCGATCCG
GACCTCTGGACAGTGCTAGATGCCATTGATCAGATGTGGCTGCCAGTGGTGAGGACTTGGCGCCTCAATGAGCG
GCACTATGGGGGTCTAACCGGTCTCAATAAAGCAGAACTGCTGCAAAGCATGGTGAGGCCCAGGTGAAGATCTG
GAGGCGCTCCTATGATGTCCCACCACCTCCGATGGAGCCCGACCATCCTTTCTACAGCAACATCAGTAAGGATCG
CAGGTATGCAGACCTCACAGAAGATCAGCTACCCTCCTGTGAGAGTCTGAAGGATACTATTGCCAGAGCTCTGCC
CTTCTGGAATGAAGAAATAGTTCCCCAGATCAAGGAGGGGAAACGTGTACTGATTGCAGCCCATGGCAACAGCCT
CCGGGGCATTGTCAAGCATCTGGAGGGTCTCTCTGAAGAGGCTATCATGGAGCTGAACCTGCCGACTGGTATTCC
CATTGTCTATGAATTGGACAAGAACTTGAAGCCTATCAAGCCCATGCAGTTTCTGGGGGATGAAGAGACGGTGCG
CAAAGCCATGGAAGCTGTGGCTGCCCAGGGCAAGGCCAAGAAGTGAAGGCCGGCGGGGAGGATACTGTCCCCAGG
AGCACCTCCCTGCCCCTCTTGTCCCTCTGCCCCCTCCACCTGCACATGTCACTGACCACATCTGTAGACATC
TTGAGTTGTAGCTGCAGACGGGGACCAGTGGCTCCCATTTTTCATTTTAGCCATTTTGTGCGCTGCACCCACTCCC
TTCATACAATCTAGTCAGAATAGCAGTTCTAGAGCACAGGTTCTCAGTCTAAGCTATGGAAAAGCTCCCTTATC
CAACAGAGTTTAAAAGTAGTGACTTGGGTTTTTGCAGTGCTTTGTTTACTAAGGACTTTGGGGAGGAACCATGC
TAAGCCATGACCAGTGAGGAGAAGCAACAGAGCCTGTCTGTCCCCATGAGCGGAGTCTGTCCTCTGCTCTTCTGC
AGTCAGGTCACTGCCTACTGCCTGGGGGCTCTAGTCATTCCAGTGAAGACGAATGTAACCTGCGTGGTGATGTG
ACAACTGTTTCCCTCCCTGACCCCAGAGGATCTGGCTCTAGGTTGGGATCAATCCTGAATTTCTGTTATGTGTTAAT
TTACTTTTATTAAAAAAGTATAGTATATATAATAACAAACAATAACCCCTTCTGGGGTTTCTTGTGGCGGTTGAAA
TAGTCCCACATGTGGTCATCAGAAATAGCATTCCCTCATACCAATATAGGATCAGCTCCTTGACCTCTGAGGGGTC
AGGAGTGCTTCCCTGGTGTGTGATTAGAATCCCTTCCCTGCCTTGTTTCATGGCAGTGAAATGCCTCTTGGTCCTG
TCCAGTGATCTTTCAGTATTTCTGAATCATGTTCTAGTTGCTTGACCCTGCCACATGGGTCCAGTGTTTCATCT
GAGCATAACTGTACTAAATCCTTTTTCCATATCAGTATAATAAAGGAGTGATGTGCAAT

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FIGURE 116

MAAYKLVLIRHGESAWNLENRFSGWYDADLSPAGHEEAKRGGQALRDAGYEFDICFTSVQKRAIRTLWTVLDAID
QMWLPVVRTWRLNERHYGGLTGLNKAETAAKHGAEQVKIWRRSYDVPPPPMEPDHPPFYSNISKDRRYADLTEDQL
P2CESLKDTIARALPFWNEEIVPQIKEGKRVLIAAHGNSLRGIVKHLEGLSEEAIMELNLP TGIP I VYELDKNLK
PIKPMQFLGDEETVRKAMEAVAAQGKAKK

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FIGURE 117

GAATTCGGCACGAGGGCGACCGGCGCGTCGTGCGGGGCTGCGGGCGGAGCCTCCTTAAGGAAGGTGCAAGAGGTTG
GCAGCTTCGATTGAAGCACATCGACCGGCGACAGCAGCCAGGAGTCAATGAGCGACAGCGGCGAGCAGAACTACGG
CGAGCGGGAATCCCGTTCTGCTTCCAGAAGTGGAAGTGCTCACGGATCGGGGAAATCTGCAAGGCATACCCCTGC
AAGGTCTCGCTCCAAGGAAGATTCCAGGCGTTCCAGATCAAAGTCCAGGTCCCGATCTGAATCTAGGTCTAGATC
CAGAAGAAGCTCCCGAAGGCATTATACCCGGTCACGGTCTCGCTCCCGCTCCCATAGACGATCACGTAGCAGGTC
TTACAGTCGAGATTATCGTAGACGGCACAGCCACAGCCATTCTCCCATGTCTACTCGCAGGCGTCATGTTGGGAA
TCGGGCAAATCCTGATCCTAACTGTTGTCTTGGAGTATTTGGGCTGAGCTTGTACACCACAGAAAGAGATCTAAG
AGAAGTGTTCTCTAAATATGGTCCCATTGCCGATGTGTCTATTGTATATGACCAGCAGTCTAGGCGTTCAAGAGG
ATTTGCCTTTGTATATTTTGAATGTAGATGATGCCAAGGAAGCTAAAGAACGTGCCAATGGAATGGAGCTTGA
TGGGCGTAGGATCAGAGTTGATTTCTCTATAACAAAAGACCACATACGCCAACACCAGGAATTTACATGGGGAG
ACCTACCTATGGCAGCTCTCGCCGTCGGGATTACTATGACAGAGGATATGATCGGGGCTATGATGATCGGGACTA
CTATAGCAGATCATACAGAGGAGGAGGTGGAGGAGGAGGAGGATGGAGAGCTGCCCAAGACAGGGATCAGATTTA
TAGAAGGCGGTCACCTTCTCCTTACTATAGTCGTGGAGGATACAGATCACGTTCCAGATCTCGATCATACTCACC
TCGTGCTATTAAAGCATGAAGACTTTCTGAAACCTGCCCTAGAGCTGGGATATTGTTTGTGGGCAATATTTTTT
ATTGTCTCTTGTTTAAAAAGTGAACAGTGCCTAGTGAAGTTAGGTGACTTTTACACCTTTTACGATGACTACTTT
TGGTGGAGTTGAAATGCTGTTTTTCACTCTGCATTTGTGTAGTTTGGTGCTTTGTTCCAAGTTAAGTGTTCAG
AAAGTATGTTTTGCATGTATTTTTTACAGTCTAAATTTGACTGCTGAGAAGTTTCTATTGTACAAAACCTTCAT
TTAAAAGGTTTTTCTACTGAATCCAGGGTATTCTGAAGATCGAAGCCTGTGTAAATGCTACCAATGGCAAAAA
GCAACAATAAACAGTTTGATTTTTTACTTTTCTTCTAACATATCAATGCTTAGCAGAACTATTTCAGATTGTCAGT
AGTAAATTTAAAGACAAATGCCCGTTTTCTCCAGTCCATGAAACATACCATACTTATATACCTGCAACTAAGTG
TTTAAATTTATGCTCTGTAACCTGTACTGCTAGTATTAGAACTAAAAATCTTAAATACAGCCAGTGCTTAATG
CTTATATCAATGTGGATTTGTGCGCTTTTATGTAATCTGTAATATGTATAGCAGGAAATACGAAGAGTTACACAG
TGTATGCCTTAAAAGGCTGTTTCTTAAAGGTGTTACAAGGGGATAATGGTATTTCAACTAGTTATCAGCAAGTGA
CAATACATTCCACCACAAATACACTCTTGTTCTTCTAGCTTTTAGACTATATGAAAAAACCGGGTGCTTCAAAGT
ACATGATAAGGGAACACTATACCTGTGATGGATGAACTGAAGACTTTGCCTGTTCATTTTTAAATATTATTTTC
AGGTCCTTTGCTTACCAAAGGAGGCCCAATTTCACTCAAATGTTTTGAGAAGTGTGTTTAAATAAACGCAATGA
AAAGAAAAAAAAAAAAAAAAAAAA

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FIGURE 118

MSDSGEQNYGERESRSASRSGSAHGSGKSARHTPARSRSKEDSRRSRSKSRSRSESRSRSRSSRRHYTRSRRS
RSHRRSRRSYSRDYRRRHSHSHSPMSTRRRHVGNRANPDNCCLGVFGLSLYTTERDLREVF SKYGPIADVSI
YDQSRRSRGFAFVYFENVDDAKEAKERANGMELDGRRIRVDFSITKRPHPTPGIYMGRPTYGSSRRRDYYDRG
YDRGYDDRDIYSRSYRGGGGGGGWRAAQDRDQIYRRRSPSPYYSRGGYRSRSRSRSYSPPRY

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FIGURE 119

ATACACGTGCCATGTGCAGCATGAGGGGCTACCCGAGCCCGTCACCCTGAGATGGAAGCCGGCTTCCCAGCCCAC
CATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGGATCTGTGGTCTCTGGAGCTGTGGTTGCTGCTGT
GATATGGAGGAAGAAGAGCTCAGGTGGAAGGAGGGAGCTACTCTAAGGCTGAGTGGAGCGACAGTGCCAGGG
GTCTGAGTCTCACAGCTTGTAAGCCTGAGACAGCTGCCTTGTGTGCGACTGAGATGCACAGCTGCCTTGTGTGC
GACTGAGATGCAGGATTTCCCTCAGCCTCCCCATGTGTCTTAGGGGACTCTGGCTTCTCTTTTGAAGGGCCT
CTGAATCTGTCTGTGTCCCTGTTAGCACAATGTGAGGAGGTAGAGAAACAGTCCACCTCTGTGTCTACCATGACC
CCCTTCCTCACACTGACCTGTGTTCCCTTCCCTGTTCTCTTTTCTATTAAAAATAAGAACCTGGGCAGAGTGCGGC
AGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCCGAGGAGGGCAGATCACGAGGTGAGGAGATCGAAACCATCC
TGGCTAACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAATTAGCTGGGCGCAGAGGCACGGGCCTGTAG
TCCCAGCTACTCAGGAGGCGGAGGCAGGAGAATGGCGTCAACCCGGGAGGCGGAGGTTGCAGTGAGCCAGGATTG
TGCGACTGCACTCCAGCCTGGGTGACAGGGTGAAACGCCATCTCAAAAAATAAAAAATTAAAAAATAAAAAAGAA
CCTGGATCTCAATTTAATTTTTTCATATTCTTGCAATGAAATGGACTTGAGGAAGCTAAGATCATAGCTAGAAATA
CAGATAATTCCACAGCACATCTCTAGCAAATTTAGCCTATTCCCTATTCTCTAGCCTATTCCCTTACCACCTGTAAT
CTTGACCATATACCTTGGAGTTGAATATTGTTTTCTACTGCTGTGGTTTTGAATGTTCCCTCCAACACTCATGTT
GAGACTTAATCCCTAATGTGGCAATACTGAAAGGTGGGGCCTTTGAGATGTGATTGGATCGTAAGGCTGTGCCTT
CATTTCATGGGTTAATGGATTAATGGGTTATCACAGGAATGGGACTGGTGGCTTTATAAGAAGAGGAAAAGAGAAC
TGAGCTAGCATGCCCCAACCCACAGAGAGCCTCCACTAGAGTGATGCTAAGTGGAATGTGAGGTGCAGCTGCCAC
AGAGGGCCCCCACCAGGGAAATGTCTAGTGTCTAGTGGATCCAGGCCACAGGAGAGAGTGCCTTGTGGAGCGCTG
GGAGCAGGACCTGACCACCACCAGGACCCCACTGTGGAGTCAGTGGCAGCATGCAGCGCCCCCTTGGGAAAG
CTTTAGGCACCAGCCTGCAACCCATTCGAGCAGCCACGTAGGCTCGACCCAGCAAAGCCACAGGCACGGGGCTAC
CTGAGGCCTTGGGGGCCAATCCCTGCTCCAGTGTGTCCGTGAGGCAGCACACGAAGTCAAAGAGATTATCTCTT
CCCACAGATACCTTTTCTCTCCCATGACCTTTAACAGCATCTGCTTCATTCCCCTCACCTTCCCAGGCTGATCT
GAGGTAACTTTGAAGTAAAAATAAAGCTGTGTTGAGCATC

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FIGURE 120

ATGGGGCATCGGCCGGTGCTCGTGCTCAGCCAGAACACAAAGCGTGAATCCGGAAGAAAAGTTCAATCTGGAAAC
ATCAATGCTGCCAAGACTATTGCAGATATCATCCGAACATGTTTGGGACCCAAGTCCATGATGAAGATGCTTTTG
GACCCAATGGGAGGCATTGTGATGACCAATGATGGCAATGCCATTCTTCGAGAGATTCAAGTCCAGCATCCAGCG
GCCAAGTCCATGATCGAAATTAGCCGGACCCAGGATGAAGAAGTTGGAGATGGGACCACATCAGTAATTATTCTT
GCAGGGGAAATGCTGTCTGTAGCTGAGCACTTCCTGGAGCAGCAGATGCACCCAACAGTGGTGATCAGTGCTTAC
CGCAAGGCATTGGATGATATGATCAGCACCCCTAAAGAAAATAAGTATCCAGTCGACATCAGTGACAGTGATATG
ATGCTGAACATCATCAACAGCTCTATTACTACCAAGCCATCAGCCGGTGGTCATCTTTGGCTTGCAACATTGCC
CTGGATGCTGTCAAGATGGTACAGTTTGAGGAGAATGGTCGGAAAGAGATTGACATAAAAAAATATGCAAGAGTG
GAAAAGATACTGGAGGCATCATTGAAGACTCCTGTGTCTTGCGTGGAGTCATGATTAACAAGGATGTGACCCAT
CCACGTATGCGGCGCTATATCAAGAACCCTCGCATTGTGCTGCTGGATTCTTCTCTGGAATACAAGAAAGGAGGA
AGCCAGACTGACATTGAGATTACACGAGAGGAGGACTTCACCCGAATTCTCCAGATGGAGGAAGAGTACATCCAG
CAGCTCTGTGAGGACATTATCCAAGTGAAGCCCGATGTGGTCATCACTGAAAAGGGCATCTCAGATTTAGCTCAG
CACTACCTTATGCGGGCCAATATCACAGCCATCCGAGAGTCCGGAAGACAGACAATAATCGCATTGCTAGAGCC
TGTGGGGCCCGGATAGTCAGCCGACCAGAGGAAC TGAGAGAAGATGATGTTGGAACAGGAGCAGGCCTGTTGGAA
ATCAAGAAAATTGGAGATGAATACTTTACTTTTCATCACTGACTGCAAAGACCCCAAGGCCTGCACCATTTCTCCTC
CGGGGGGCTAGCAAAGAGATTCTCTCGGAAGTAGAACGCAACCTCCAGGATGCCATGCAAGTGTGTCGCAATGTT
CTCCTGGACCCTCAGCTGGTGCCAGGGGGTGGGGCCTCCGAGATGGCTGTGCGCCCATGCCTTGACAGAAAAATCC
AAGGCCATGACTGGTGTGGAACAATGGCCATACAGGGCTGTTGCCAGGCCCTAGAGGTCATTCTCGTACCCTG
ATCCAGAACTGTGGGGCCAGCACCATCCGTCTACTTACCTCCCTTCGGGGCCAAGCACACCCAGGAGAACTGTGAG
ACCTGGGGTGTAATGGTGAGACGGGTACTTTGGTGGACATGAAGGAAGTGGGCATATGGGAGCCATTGGCTGTG
AAGCTGCAGACTTATAAGACAGCAGTGGAGACGGCAGTTCTGCTACTGCGAATTGATGACATCGTTTCAGGCCAC
AAAAAGAAAGGCGATGACCAGAGCCGGCAAGGCGGGGCTCCTGATGCTGGCCAGGAGTGAAGTGCTAGGCAAGGCT
ACTTCAATGCACAGAACCAGCAGAGTCTCCCCTTTTCTGAGCCAGAGTGCCAGGAACACTGTGGACGTCTTTGT
TCAGAAGGGATCAGGTTGGGGGGCAGCCCCCAGTCCCTTTCTGTCCCAGCTCAGTTTTCCAAAAGACACTGACAT
GTAATTCTTCTCTATTGTAAGGTTTCCATTTAGTTTGCTTCGGATGATTAAATCTAAGTCATTTGAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 121

MGHRPVLVLSQNTKRESGRKVQSGNINAAKTIADIIRTCLGPKSMMKMLLDPMGGIVMTNDGNAILREIQVQHPA
AKSMIEISRTQDEEVGDGTTSVIILAGEMLSVAEHFLEQQMHPTVVISAYRKALDDMISTLKKISIPVDISDSM
MLNIINSSITTKAISRWSSLACNIALDAVKMVQFEENGRKEIDIKKYARVEKIPGGIIEDSCVLRGVMINKDVTH
PRMRRYIKNPRIVLLDSSLEYKKGGSQTDIEITREEDFTRILQMEEYIQQLCEDIIQLKPDVVITEKGISDLAQ
HYLMRANITAIRVRKTDNNRIARACGARIVSRPEELREDDVGTGAGLLEIKKIGDEYFTFITDCKDPKACTILL
RGASKEILSEVERNLDAMQVCRNVLLDPQLVPGGGASEMAVAHALTEKSKAMTGVEQWPYRAVAQALEVIPRTL
IQNCGASTIRLLTSLRAKHTQENCETWGVNGETGTLVDMKELGIWEPLAVKLQTYKTAVETAVLLLRIDDIVSGH
KKKGDDQSRQGGAPDAGQE

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FIGURE 122

GGCACGAGGACCGACCGCATTGCGGCTTGGTTTTCTACCCAGTGCATGTGGCAGGAGCGGTGAGATCACTGCCT
ACGGCGATCCTGGACTGACGGTCACGACTGCCTACCCTCTAACCTGTTCTGAGCTGCCCCCTGCCACACACC
CCAAACCTGTGTGCAGGATCCGCCCTCCATGGAGCTACAGCCTCCTGAAGCCTCGATCGCCGTCGTGTCGATTCCG
CGCCAGTTGCCTGGCTCACATTCCGAGGCTGGTGTCCAGGGTCTCAGCGCGGGGGACGACTCAGAGTTGGGGTCT
GTGTTGCCAGACTGGTCTCGAACTCTTGGCCTCAGGTGATCCTCTTCCCTCAGCTTCCAGAAATGCCGAG
TAGAGACGGGGTCTGACTGTGTTACCCAGGCTGGTCTTCAACTCTTGGCCTCAAGTGATCCTCCTGCCTTA
CCAAGAATGCTGAGGTTACAGGCACCATGAGCCAGGACACCGAGGTGGATATGAAGGAGGTGGAGCTGAAT
ATTAGAGCCCCGAGAAGCAGCCGATGAACGCGGCGTCTGGGGCGGCCATGTCCCTGGCGGGAGCCGAGAAGAAT
TGGTGAAGATCAAGGTGGCGGAAGACGAGGCGGAGGCGGCAGCCGCGGCTAAGTTCACGGGCCTGTCCAAG
AGCTGCTGAAGGTGGCAGGCAGCCCCGGCTGGGTACGCACCCGCTGGGCACCTGCTGCTGCTCTTCTGGCTC
GGCTCGGCATGCTTGGTGGTGGTGCATAATCGTGCGAGCGCCGCTTGTGCGGAGCTACCGGCGCAG
TGGTGGCACACGGGCGCCCTCTACCGCATCGGCGACCTTCAGGCCTTCCAGGGCCACGGCGCGGGCAACCTG
GGTCTGAAGGGGCGTCTCGATTACCTGAGCTCTCTGAAGGTGAAGGGCCTTGTGCTGGGTCCAATTACAAG
ACAGAAAGGATGATGTCGCTCAGACTGACTTGCTGCAGATCGACCCCAATTTTGGCTCCAAGGAAGATTTTGAC
ATCTCTTGTCAATCGGCTAAAAAAGAGCATCCGTGTCAATTCTGGACCTTACTCCCAACTACCGGGGTGAGAAC
TCGTGGTTCTCCACTCAGGTTGACACTGTGGCCACCAAGGTGAAGGATGCTCTGGAGTTTTGGCTGCAAGCTGGC
GTGGATGGGTTCCAGGTTCCGGACATAGAGAATCTGAAGGATGCATCCTCATTCTTGGCTGAGTGGCAAAATATC
ACCAAGGGCTTCAGTGAAGACAGGCTCTTGATTGCGGGGACTAACTCCTCCGACCTTCAGCAGATCCTGAGCCTA
CTCGAATCCAACAAAGACTTGCTGTTGACTAGCTCATACCTGTCTGATTCTGGTTCTACTGGGGAGCATACAAAA
TCCCTAGTCACACAGTATTTGAATGCCACTGGCAATCGCTGGTGCAGCTGGAGTTTGTCTCAGGCAAGGCTCCTG
ACTTCCTTCTTGCCGGCTCAACTTCTCCGACTCTACCAGCTGATGCTCTTACCCTGCCAGGGACCCCTGTTTTCT
AGCTACGGGGATGAGATTGGCCTGGATGCAGCTGCCCTTCCTGGACAGCCTATGGAGGCTCCAGTCATGCTGTGG
GATGAGTCCAGCTTCCCTGACATCCAGGGGCTGTAAGTGCCAACATGACTGTGAAGGGCCAGAGTGAAGACCCCT
GGCTCCCTCCTTTCTTGTTCGGCGGCTGAGTGACCAGCGGAGTAAGGAGCGCTCCCTACTGCATGGGGACTTC
CACGCGTTTCTCCGCTGGGCTGGACTCTTCTCCTATATCCGCCACTGGGACCAGAATGAGCGTTTTCTGGTAGTG
CTTAACTTTGGGGATGTGGGCTCTCGGCTGGACTGCAGGCCTCCGACCTGCCTGCCAGCGCCAGCCTGCCAGCC
AAGGCTGACCTCCTGCTCAGCACCCAGCCAGGCCGTGAGGAGGGCTCCCTCTTGAGCTGGAACGCCTGAAACTG
GAGCCTCACGAAGGGCTGCTGCTCCGCTTCCCTACGCGGCCCTGACTTCAGCCTGACATGGACCCACTACCTTC
TCCTTTCTTCCCAGGCCCTTTGGCTTCTGATTTTTCTCTTTTTTAAAAACAAACAAACAAACTGTTGCAAAAAA
AAAAAAAAAAAA

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FIGURE 123

MSQDTEVDMKEVELNELEPEKQPMNAASGAAMSLAGAEKNGLVKIKVAEDEAEAAAAAKFTGLSKEELLKVAGSP
GWRTRWALLLLFWLGWLGMLAGAVVIVRAPRCRELPAQKWWHTGALYRIGDLQAFQGHGAGNLAGLKGRLDYL
SSLKVKGVLVGP I HKNQKDDVAQTDLLQIDPNFGSKEDFDSLLQSAKKKSIRVILDLTTPNYRGENSWFSTQVDTV
ATKVKDALEFWLQAGVDGFQVRDIENLKDASSFLAEWQNITKGFSEDRLLIAGTNSSDLQQILSLESNKDLLLT
SSYLSDSGSTGEHTKSLVTQYLNATGNRWCSWSLSQARLLTSFLPAQLLRLYQLMLFTLPGTPVFSYGDEIGLDA
AALPGQPMEAPVMLWDESSFPDIPGAVSANMTVKGOSEDPGSLLSLFRRLSDQRSKERSLLHGDFHAFSAGPGLF
SYIRHWDQNERFLVVLNFGDVGLSAGLQASDLPASASLPKADLLLSTQPGREEGSPLELERLKLEPHEGLLLRF
PYAA

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FIGURE 124

GGCACGAGGCCCCGGTTCCGGCGCGGTTGAGGCCTTCGGTGGTGAACGAGTCTCCAGCACCATGCTCTGGTTTGTCT
TGGCCCACCAGCCCCGGCGCGGCCCTTTTCCGTTAGCGTTGCTGCTTTTGTTCCTGCTCGGCCCCAGATTGGTCCT
TGCCATCTCCTTCCATCTGCCCATTAACTCTCGCAAGTGCCTCCGTGAGGAGATTACAAAGGACCTGCTAGTGAC
TGGCGCGTACGAGATCTCCGACCAGTCTGGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGC
TGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTT
TGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGAGT
GGAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAGCTCAAACCATTAGAGGTAGAGCTGCGACGCCTAGA
AGACCTTTCAGAACTCTATTGTTAATGATTTTGCCTACATGAAGAAGAGAGAAGAGGAGATGCGTGATACCAACGA
GTCAACAAACACTCGGGTCCTATACTTCAGCATCTTTTCAATGTTCTGTCTCATTGGACTAGCTACCTGGCAGGT
CTTCTACCTGCGACGCTTCTTCAAGGCCAAGAAATTGATTGAGTAATGAATGAGGCATATTCTCCTCCCACCTTG
TACCTCAGCCAGCAGAACATCGCTGGGACGTGCCTGGCCTAAGGCATCCTACCAACAGCACCATCAAGGCACGTT
GGAGCTTTCTTGCCAGAACTGATCTCTTTTGGTGTGGGAGGACATGGGGTACCACCTACACCCAACAAGTCAATG
AGGGACTTCTTTTTAATTTGGTAGGATTTTGACTGGTTTTGCAACAATAGGTCTATTATTAGAGTCACCTATGAC
AAAAATAGGGGTTACCTAGATAATGCCAAAGTCAGCATTTGTCTGGGTTCCTTGTGTGATCTGTTTGGACTA
TGTTTTCTTTTCTTCTCCCACTTGCTCAGCAGCTTGGGCTTCCATTCTAGTTCTTTTACCAAGATTTTGTGTGA
CCATGTTGACTTCATTTGGATTGCCCTCTTTCAATTTCCCTGTGAAAACACCCTTAACTTTCTCTTTACCCCTTAG
CTGAAATGTTTACATAGCTTCTGGTGATATCTTTTCATGATTTTATATCTCTTAAATGGTGATGGATGTGACAC
CTCATAAAAGTGAGCTTTGAACTGTAGATAACTCTTAAAGAAAATGTCATTTTAGACAATTAAATATTTGTGCT
CAACTGCTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 125

MSGLSGPPARRGPFPLALLLLFLLGPRVLAI SFHLPINSRKCLREEIHKDLLVTGAYEISDQSGGAGGLRSHLK
ITDSAGHILYSKEDATKGKFAFTTEDYDMFEVCFESKGTGRIPDQLVILDMKHGVEAKNYEEIAKVEKLKPLEVE
LRRLEDLSESI V NDFAYMKKREEEMRDTNESTNTRVLYFSIFS MFCLIGLATWQVFYLR RFFKAKKLIE

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FIGURE 126A

AGAGCGAGCAGGGGAGAGCGAGACCAGTTTTAAGGGGAGGACCGGTGCGAGTGAGGCAGCCCCGAGGCTCTGCTC
GCCCACCACCCAATCCTCGCCTCCCTTCTGCTCCACCTTCTCTCTGCCCCTCACCTCTCCCCGAAAACCCCTT
ATTAGCCAAAGGAAGGAGGTGAGGGGAACGCTCTCCCTCCCTTCCAAAAACAAAACAGAAAAACCCCTTTT
CCAGGCCGGGGAAAGCAGGAGGGAGAGGGGCCCGCGGGCTGGCCATGGAGCTGCTGTGCCACGAGGTGGACCCGG
TCCGCAGGGCCGTGCGGGACCGCAACCTGCTCCGAGACGACCGCGTCTGCAGAACCTGCTCACCATCGAGGAGC
GCTACCTTCCGCAGTGCTCCTACTTCAAGTGCGTGCGAAGGACATCCAACCCTACATGCGCAGAATGGTGGCCA
CCTGGATGCTGGAGGTCTGTGAGGAACAGAAAGTGCGAAGAAGAGGTCTTCCCTCTGGCCATGAATTACCTGGACC
GTTTCTTGGCTGGGGTCCCGACTCCGAAGTCCCATCTGCAACTCCTGGGTGCTGTCTGCATGTTCTTGGCCTCCA
AACTCAAAGAGACCAGCCCGCTGACCGCGGAGAAGCTGTGCATTTACACCGACAACCTCCATCAAGCCTCAGGAGC
TGCTGGAGTGGAAGTGGTGGTGTCTGGGGAAAGTTGAAGTGGAACCTGGCAGCTGTCACTCCTCATGACTTCATTG
AGCACATCTTGCGCAAGCTGCCCCAGCAGCGGGAGAAGCTGTCTCTGATCCGCAAGCATGCTCAGACCTTCATTG
CTCTGTGTGCCACCGACTTTAAGTTTGCCATGTACCCACCGTCGATGATCGCAACTGGAAGTGTTGGGAGCAGCCA
TCTGTGGGCTCCAGCAGGATGAGGAAGTGAGCTCGCTCACTTGTGATGCCCTGACTGAGCTGCTGGCTAAGATCA
CCAACACAGACGTGGATTGTCTCAAAGCTTGCCAGGAGCAGATTGAGGCGGTGCTCCTCAATAGCCTGCAGCAGT
ACCGTCAGGACCAACGTGACGGATCCAAGTCGGAGGATGAAGTGGACCAAGCCAGCACCCCTACAGACGTGCGGG
ATATCGACCTGTGAGGATGCCAGTTGGGCCGAAAGAGAGAGACGCGTCCATAATCTGGTCTCTTCTTCTTTCTGG
TTGTTTTTGTCTTTGTGTTTTAGGGTGAAACTTAAAAAAAATTCTGCCCCACCTAGATCATATTTAAAGAT
CTTTTAGAAGTGAGAGAAAAAGGTCCTACGAAAACGGAATAATAAAAAGCATTGTTGGTGCCTATTTGAAGTACAGC
ATAAGGGAATCCCTGTATATGCGAACAGTTATTGTTTGATTATGTAAAAGTAATAGTAAAATGCTTACAGGAAA
ACCTGCAGAGTAGTTAGAGAATATGTATGCCTGCAATATGGGAACAAATTAGAGGAGACTTTTTTTTTTCATGTT
ATGAGCTAGCACATACACCCCTTGTAGTATAATTTCAAGGAAGTGTGTACGCCATTATGGCATGATTAGATTG
CAAAGCAATGAACTCAAGAAGGAATTGAAATAAGGAGGGACATGATGGGGAAGGAGTACAAAACAATCTCTCAAC
ATGATTGAACCATTTGGGATGGAGAAGCACCTTTGCTCTCAGCCACCTGTTACTAAGTCAGGAGTGTAGTTGGAT
CTCTACATTAATGTCTCTTGCTGTCTACAGTAGCTGCTACCTAAAAAAGATGTTTTATTTTGGCAGTTGGACA
CAGGTGATTGGCTCCTGGGTTTCATGTTCTGTGACATCCTGCTTCTTCTTCCAAATGCAGTTCATTGCAGACACC
ACCATATTGCTATCTAATGGGGAAATGTAGCTATGGGCCATAACCAAACTCACATGAAACGGAGGCAGATGGAG
ACCAAGGGTGGGATCCAGAATGGAGTCTTTTCTGTTATTGTATTTAAAGGGTAATGTGGCCTTGGCATTCTCTC
TTAGAAAAAACTAATTTTTGGTGTGATTGGCATGTCTGGTTCACAGTTTAGCATTGTTATAAACCATTCCATT
CGAAAAGCACTTTGAAAAATTGTTCCCGAGCGATAGATGGGATGGTTTATGCAAGTCATGCTGAATACTCCTCCC
CTCTTCTCTTTTGGCCCCCTCCCTTCCCTGCCCCAGTCTGGGTTACTCTTCGCTTCTGGTATCTGGCGTTCTTTGG
TACACAGTTCTGGTGTTCCTACCAGGACTCAAGAGACACCCCTTCCCTGCTGACATTCCTCATACAACATTCTCA
GACAAGCCTGTAACTAAAATCTGTTACCATTCTGATGGCACAGAAGGATCTTAATTCCTATCTCTATACTTCTC
CTTTGGACATGGAAAGAAAAGTTATTGCTGGTGCAAGATAGATGGCTGAACATCAGGGTGTGGCATTTTGTTCC
CTTTCCGTTTTTTTTTTTTTTTATTGTTGTTGTTAATTTTATTGCAAAGTTGTATTACAGCGTACTTGAATTTTC
TTCTCTCCACTTCTTAGAGGCATTGAGTTAGCAAAGAGGTTGGAGCAACAACCTTTTTTTTTTTTTTTTGCACAA
TTGTAATTGACAGGTAATGAAGCTATTTGTTAAAAATATTGCTTTTTTAAGTAAAAAGAAAAATCAGAACAGGG
CTATTTGAAGAATTATTTTATACACAGATTCTGCCCTGTTTCATAGTATGAGGGTTGAAGACGGAAAAACAATCTA
AGGGTCTCTCATTTTTTTAATTTTGTGTTGTTTCAAGTTGTTTTTTTTTTTTTTTGGCGCTGCTAAGAAGCTAAAG
TCATCCATCCTTATTCACGTTGACAGTACCTAGCTGTAATGTTTCACAGAGTGTGCTGCTATTTTATAAACATTT
TTATAATATATTATTTTACTGCTTAAATTCGAAGTCTGAAGTAGATGGTTGAGATATGAGTTCTTCGTACTGGA
AAAGCCCTTCCGTAGTTTGTGTTCTTCTGGTAGCATATTGATGGTTGTTTTTTTTTTTTTCTTTTTTGGTTTTTTGG
TTTTTTTTTTTTTCTCTGATCACATTCTTCAAAGACGGAGTATTCTTTACCTCAGGTTTACTGGACAAAATCAAT
AACTACAAAAGGCAATGATTACGCTTTTGTGTTTCAATAACCTCACAAACGTACAGTTTCTGCTTGGGAGCCCA
TTCGCATGAGGAATACAGAAGCAGTGTGAGCAGGGCTGACTCCCTCTCAGGTGGAAGGCAGGGCGGTCTCACTCC
CAGGGACCTTTTTTGGTCATGGAGGCCATCGGGCTCCAGTTAGACCCTGGTATCCTCATCATGATGGAAAAAATA
CATTGAACCAAGGGATCCTCCCTCCCTTCAAGGCAGACGTTGAGTACAAACATTTATGCGGTAGGCTCAGATGT
CGTAATTTGCACTTAGGTACCAGGTGTCAGGAAACAGACTAAAAAGAATTCCACCAGGCTGTTTGGAGATCCTCA
TCTTGGAGCTTTTTCAAAGCGGGGCTTCATCTGCAAAGGGCCCTTTTATCTTGAAGTTTTTCCCTCCGTCTTT

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FIGURE 126B

CCCCCTCCCCTGGCATGGACACCTTGTGTTTAGGATCATCTCTGCAGGTTTCCTAGGTCTGAATCTGCGAGTAGAT
GAACCTGCAGCAAGCAGCGTTTATGGTGCTTCCTTCTCCCTCCTCTGTCTCAAACCTGCGCAGGCAAGCACTATGC
AAGCCCAGGCCCTCTGCTGAGCGGTACTAAACGGTCGGGTTTTCAATCACACTGAATTGGCAGGATAAGAAAAAT
AGGTCAGATAAGTATGGGATGATAGTTGAAGGGAGGTGAAGAGGCTGCTTCTCTACAGAGGTGAAATTCCAGATG
AGTCAGTCTCTTGGGAAGTGTGTTTAGAAGGGTTTCAGGACTTTGTGAGTTAGCATGACCCTAAAATTCTAGGGGA
TTTCTGGTGGGACAATGGGTGGTGAATTTTGAAGTTTTGGAGAGGGGAAGTGGAGCAGCCAGCAAGTAAGCTAGCC
AGAGTTTTCTCAAGAGCCAGCTTTGCTCAGCACACTCTCCTGGGCCCCAAGGAGTCCCACGGAATGGGGAAAAGTG
GGAACCTGGAGTTCTTGGGAATCTTGGAGCCTAAAGAGAAAACCGAGGTGCAAATTCATTTTCATGGTGAAGTGA
CTTGAGCTTAAACAGAAGCAGCAAATGAAAGAACCAGGACAAATAAGGAAGGGCACAAGCCTACCCGACTCTATTT
ACAGTCTGTAACTTTCCACTCTTCCCTGTAGTCCCGAGGCCCTTGGGTCTTCTAGCTTTTCTCTTTCCCATCCTT
GGGGCCTTGTGTGATGATGGGTGTGGGGCTGCCGATGGGAAAGTCGGGGGTTGTTAGGCTTTTCTGCCTGCTCCT
GCTTAAACACAAGAAGGAATCCTGGATTTGCCCTCTCCTTAGCTCTTAGTCTCTTTGGTAGGAGTTTTGTTC
GAGGAGCTCTCCCCCTTGGATTTGAACTTGCTCTTTTGTGTGTTGTTGTTCTTTCTCTTTTCTTTTACCTCCC
ACTAAAGGGGTTCCAAATTATCCTGGTCTTTTCTACCTGTGTGTTTCTATCTCGTCTTTACTTCCATCTGTT
TGTTTTTTTTCTCCATCAGTGGGGCCGAGTTGTCCCCCAGCCTGCCAAATTTTGATCCTTCCCCTCTTTTGGCC
AAATCCTAGGGGGAAGAAATCCTAGTATGCCAAAAATATATGCTAAGCATAATTAAACTCCATGCGGGTCCATAA
CAGCCAAGAAGCCTGCAGGAGAAAGCCAAGGGCAGTTCCTCCGCAGAACACCCCATGCGTGCTGAGAGGCGAGC
TCCTTGAAGAAGGGGCTGTTCTTCCAGGAGGCCCTATTTTGAAGTGCCTCAGGACCCCACTGGAGAGCACAGCAT
GCCTTACTACTGGGTCTATCCTTGGTCTATGTGCTCTGTACTGGAGGCTCTGTTCTGCCTCTTATCAGCCAGGTCA
GGGGCACACATGGCTTAAAGTGACAAAGCCAGAGGAGAAGACAACCCTGACAGCATCACGCTGCATCCCATTGCTA
GCAGGATTGGCAACTCTTACAGACGGAGCTGCGCTTCCCTGCAGTCTAGCACCTCTAGGGCCTCTCCAGACTGTGC
CCTGGGAGCTCTGGGACTGAAAGGTTAAGAACATAAGGCAGGATCAGATGACTCTCTCCAAGAGGGCAGGGGAAT
TTTCTCTCCATGGGCCACAGGGGACAGGGCTGGGAGAAGAAATAGACTTGACCTTATGTCATGTAAATAATTGA
TTTTCTAGTTCAAGAAGATAATATTGGTAGTGTGGGAATTGGAGGTAGGAAGGGGAGGAAGTCTGAGTAAGCCAG
TTGGCTTCTAAGCCAAAAGGATTCTCTTTGTTTTATCTCTGAGACAGTCCAACCTTGAGAATAGCTTTAAAAGGG
AAATTAATGCTGAGATGATAAAGTCCCCCTTAAGCCAACAAACCCTCTGTAGCTATAGAATGAGTGCAGGTTTCTA
TTGGTGTGGACTCAGAGCAATTTACAAGAGCTGTTCAATGCAGCCATCCATTTGTGCAAAATAGGGTAAGAAGATT
CAAGAGGATATTTATTACTTCCCTCATACCACATGGCTTTTGTGATTCTGGATTCTAAACAACCCAGAATGGTCA
TTTCAGGCACAACGATACTACATTTCGTGTGTGTCTGCTTTTAACTTGGCTGGGCTATCAGACCCTATTCTCGGC
TCAGGTTTTTGAGAAGCCATCAGCAAATGTGTACGTGCATGCTGTAGCTGCAGCCTGCATCCCTTCGCCTGCAGCC
TACTTTGGGGAAATAAAGTGCTTACTGACTGTAGCCATTACAGTATCCAATGTCTTTTGACAGGTGCCTGTCTCT
TGAAAAACAAGTTTCTATTTTTATTTTTAATTGGTTTTAGTTCTTAACTGCTGGCCAACTCTTACATCCCCAGCA
AATCATCGGGCCATTGGATTTTTTCCATTATGTTTCATCACCCCTATATCATGTACCTCAGATCTCTCTCTCTC
CTCTCTCTCAGTTATATAGTTTCTTGTCTTGGACTTTTTTTTTCTTTTCTTTTCTTTTTTTTTTTGCTTTAAAA
CAAGTGTGATGCCATATCAAGTCCATGTTATTCTCTCACAGTGTACTCTATAAGAGGTGTGGGTGTCTGTTGGT
CAGGATGTTAGAAAGTGCTGATAAGTAGCATGATCAGTGTATGCGAAAAGGTTTTTAGGAAGTATGGCAAAAATG
TTGTATTGGCTATGATGGTGACATGATATAGTCAGCTGCCTTTTAAAGAGGTCTTATCTGTTTCAGTGTAAAGTGAT
TTAAAAAATAATAACCTGTTTTCTGACTAGTTTAAAGATGGATTGAAAATGGTTTTGAATGCAATTAGGTTAT
GCTATTTGGACAATAAACTCACCTTGACCT

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FIGURE 127

MELLCHEVDPVRRRAVRDRNLLRDDRVLQNLLTIEERYLPQCSYFKCVQKDIQPYMRRMVATWMLEVCEEQKCEEE
VFPLAMNYLDRFLAGVPTPKSHLQLLGAVCMFLASKLKETSPLTAEKLCIYTDNSIKPQELLEWELVVLGKLGKWN
IAAVTPHDFIEHILRKLPQQREKLSLIRKHAQTFIALCATDFKFAMYPPSMIATGSVGAAICGLQQDEEVSSLTC
DALTELLAKITNTDVKLACQEQIEAVLLNSLQQYRQDQRDGSKSEDELDQASTPTDVRDIDL

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FIGURE 128A

TGTGGCTGTGACCTGGCACAAGGGGGCTTCTTCATAAAGAACGGAGAGTATCTCTGCACCCCTGGACTACCAGCGG
ATGTACGGGACACGCTGCCATGGCTGTGGGGAGTTTCGTGGAGGGCGAAGTGGTGACTGCTCTGGGCAAGACCTAC
CATCCCAATTGCTTTGCTTGTACTATCTGCAAGCGCCGTTTCCACCCGGAGACCGAGTCACATTCAATGGGAGA
GACTGCCTTTGTCAACTCTGTGCACAGCCGATGTCTCCAGTCCGAAAGAAACCACCTTCTCCAGCAATTGTGCC
GGCTGCGGAAGAGATATCAAGAACGGGCAGGCGCTGCTGGCGCTGGATAAGCAGTGGCACTTGGGGTGCTTTAAA
TGCAAGTCCTGCGGGAAGGTCTCACCAGGGGAGTACATCAGCAAGGATGGTGCTCCGTACTGTGAAAAGGACTAC
CAGGGACTCTTTGGGGTGAAATGTGAGGCGTGTACCAGTTTATCACAGGGAAAGTCTGGAGGCAGGTGACAAA
CATTACCACCCAGCTGTGCACGATGCAGCAGATGCAACCAGATGTTACAGAAGGAGAGGAAATGTATCTTCAA
GGCTCCACCGTTTGGCATCCCGACTGTAAGCAATCTACGAAGACCGAGGAAAAGCTGCGGCCTACCAGGACATCC
TCGGAAGATATTTATTCTAGGCCAGGCTCCAGTATTCTGGCTCACCAGGTCATACTATCTATGCAAAAGTAGAC
AATGAGATCTTGGATTACAAGGATTTAGCAGCCATTCCGAAGGTCAAGGCAATTTATGACATTGAACGTCCAGAT
CTTATTACCTATGAGCCTTTCTACACTTCGGGCTATGATGACAAACAGGAGAGACAGAGCCTTGGAGAGTCTCCG
AGGACTTTGTCTCTACTCCATCAGCAGAAGGGTACCAGGATGTTCCGGATCGGATGATCCATCGGTCCACGAGC
CAGGGCTCCATCAACTCCCCTGTGTACAGCCGCCACAGCTACACTCCAACCACGTCCCCTCTCCCCAGCATTTC
CACAGACCTGGCAATGAGCCGTCCAGCGGCCGGAACCTCCCCTCTCCCCTACCGGCCAGACAGCCGCCCTCTAACT
CCAACTTACGCTCAGGCCCTAAACATTTCCATGTTCCAGATCAAGGAATCAACATTTACCGAAAGCCACCCATC
TACAAACAGCATGCTGCCTTGGCAGCCAGAGCAAGTCTCAGAAGATATCATCAAGTTTTCCAAGTTCCAGCA
GCCCAGGCACCAGACCCAGCGAGACACCAGAGATTGAGACGGACCACTGGCCTGGTCCCCCTCATTTGCTGTC
ATAGGACCTGACATGAAACGCAGATCTAGTGGCAGAGAGGAAGATGATGAGGAACCTCTGAGACGTCCGCAGCTT
CAAGAAGAGCAATTAATGAAGCTTAACTCAGGCCTGGGACAGTTGATCTTGAAAGAAGAGATGGAGAAAGAGAGC
CGGGAAGGTATCTCTGTAGCCAGTCGCTACGATTCTCCCATCAACTCAGCTTACATATTCCATCATCTAAA
ACTGCATCTCTCCCTGGCTATGGAAGAAATGGGCTTACCAGCCTGTTTCTACCGACTTCGCTCAGTATAACAGC
TATGGGGATGTGAGCGGGGAGTGCGAGATTACCAGACACTCCAGATGGCCACATGCCTGCAATGAGAATGGAC
CGAGGAGTGTCTATGCCCAACATGTTGGAACCAAAGATATTTCCATATGAAATGCTCATGGTGACCAACAGAGGG
CGAAACAAAATCCTCAGAGAGGTGGACAGAACCAGGCTGGAGCGCCACTTAGCCCCTGAAGTGTTCGGGAAATC
TTTGGAATGTCCATACAGGAGTTTGACAGGTTACCTCTTTGGAGACGCAACGACATGAAGAAAAAGCAAAACTC
TTCTAAAGTCCCACTCGTGAATGGCAATTAGAGAAAAGGACTGACAGTGGCGGTGCCCCATAGGATGTCATATTGAG
GCCCAAACCTTGATTGGAGAATTTGCAAACTACCGTCGCTCAGCAACACCAAAAAGAGAAAGTCTGGTTAAACAC
CATGAGTCAAATGTCGGGCCAGCCAACAGTAACACTTGCCAAGAAGCATGGCGTAGAAATTTCTATGTTCCGAAA
CACAGAGTAGTGCCACATGTGACCTTTTTCACATTACCTTATGTATACAACAGGAGCTGCGTTGTTTTCTTCTTT
TTCTTTTCTTTTATCTGTTGTCCAACAACAGTGCTGACTGTCCGGATAAGAGCTGGCAAGTGCCCTTAGGATGCC
GCATGGGAAAAATCGGTTATCATAATTTCAAAGTATAAATATATTTATTATGTAGCGCTGCGGCTAAGAAGGAAG
AGTGAGGGGTCTGTCCATGGGGTGGCAGTGATTTACACCCGCTTTCTTGAATGGCTTCGTGTTACTCAGCCGT
GCCCTGGCAGGAATGGAATCCATCAGGGAACAGGGCAGCTCTGTTTGAATGGGGTGAAAAACAGCAAAATTAAT
TCTTAGCAAGCTCCTTGTCTCTACTGTTACCAGGACCTGGCTGGCAATGACTTAGCTATTAGTATATTTAAA
AACTGTTCAAAAGCAAAAGAGAAGGAACAGGAATGAAAGGAAACCTTCCCTTAACTCTTTCTGCTTCCCATAGCA
GGTCTGGTTCTGTCTCCCGCCTAGGACAGGAGCTGTCTGGAGCTCCACCTTTGCAAGAAAGGAAAAACACAAA
TTGCCCCAGATTGGCCAGTGGCATGCCATTAGGTGATTTTGCCTAGGGGCCATATCATTTCATGGCCAAAAAAA
ACCAAAAAGCAAAAAACAAAAACAAGTCCCATGTCTACTGACTCTAGTTCTTCCAGTCGTTATCCTCTGCTGTC
TCTCTGGCATCCTATGAATCAGATCAAGCCCATGCTGTTGTTGGTTTTTAAGGTTTCTTTCAATAATAGGCTAAG
GAAAGACATGTTTTTCTCTTTAAATCTCTGCAACTCCAAAGTAGACTCCTTCGAACGTATTTAATTTGGCCTTT
TCAGCTTTCTTCTTGCCAGCTCTGTGCAATTCATGGGTGTGTGTGCACATGTTGGTTTCACTCACCAGAGTAA
TTTTGTGAGCATGCATGTGCTTTTTAATTTCTGCTTGAATGTTTGTCTGTGTGTGAGCTTCTAAAGACATT
GTCACCGAGTGTGTGACTCAAAGATCAAGAGTGAGGCTAAACTGCGACCCCAACATCACTTCTTCATGGAAA
GGTGTGGCGCTGATGTAGCTCATGGAAGGATCAGACTGGGAACCACAGAGGAAGGATGAGGTGGGATGTGGAGG
TCAGAGCATCTCAGAGAGTCCCTCAGGCTCTGCAACACTAGATTTCGAATATGAGCCTAGGGTTCCCCAACACG
TGCGTGCATATGAAACCACATCATGATTTCCCGACGTGAGTTAGATGAGGGAGAGTTTGTGTAATCCACACCCAG
GAGGGTAAGCCACTTTATTATCATGCTTTGGGGCTGTGCTTAAGAATTTAAGCTCTGTTTTAAGCCGAAGAAGA

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FIGURE 128B

AAACATTTGAATTTACCTTCATATGCCACTAAGAACAAAAGCTCTGAAGTTCTTCCTGCTGGCACCAAATATTAG
GATTACAAGCTGTCTCTCTGACACCAGTGGTAAAAAGCAAGTAGAATAGTTTCTGAGTCTGTGTTGCAGCCTCT
GACACGTGGCTCACTGCTGTCAATTTGGGGGGTGAATGAACAGTCACTGTTCTATAGCATCCTCCTGTGCTCTTA
CCTAAGGAATCTAAATTGTCCTAGCCTTCCATTGCTATGCACTGAATGAGGACTACTCTCGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
CCATGAGCAGATGAGACCAGCTCTTGCTTGGTTGGAAGCCACACTGCAGTTTGAGTTTAGCCTTTGGTGTCTCA
GTGGCCTCTTGCTTATTCATGCTTTTTCTATCCCATCCTCTCTGTGCCCTCCTGCAATGGCAGCCTTGGCAC
AATGCCGTGGGTGTCCTCATCCTTGCTTTACTCTGGAAAGTGTGGGGATGGAGAGGATGGTGCATTTCCAGTGCTT
CCTTACCTGTCAATAACAATGGTGGCCACCTGGGTCCCAGCACTTGGCTGGTGGAGAGATTTTTTTCATTATGGA
GCTAATAAAGGGTCCCTACGTTTTACATTGATTAATGAATTATCACCCAGACATGTGCAGATGAAATGTCAATAT
AAGAAAAATCAAGGTATTTGGGAAACATGGGCATAATCAGGTAGTTTTGCTAAAATTCCTCTTCCTTGGTCTACA
TAAAGAAGACATGGGTCTGTCAATAGAAATGGGGACATTAGACTGAAAACCTGGGACAACCCCTTCCTTATTTTATA
GAGACTAGGAGTTAAGGGGCTGCCTAAGATTGCAGTGATAAAGAACTGAACCCTAAATCAGCTCCCACTAATGA
AACCCTGCTTTCTTGATCTTTTAACTCAGTTCTGCATCCAACCTGAGAAGAAAAAAGCTTCTTTCCATATC
AAGTACCATATGAGTTCATTTAACTGCACCTTGCAAGAAATGCATTGCCAGAAAGCACCAGTAGCCTCCTATCTG
CAAGCAGAGTAGTGCTCTGCTCTGGGGAGGGTCAATTGGAACCATAATGCAGAGTGGGCCCCCTACTCCATTTT
CCAGCAAAAGGCTCCAGCTGGAGGGATGGGTTGTGGGGCAACCTGGTTCCTGCTAACTGCCAGATTGAATGTGTG
GGCTAGAATGCCTGCGCATTTAGTTAACTGGGCTCAGCATGCTTGTCTCAAATGTCCATCCTGGTCACAGCA
CACAAGATGGCTATTGGTCTGCTTTTACCCTACCCTGTACTATACATGAAAATTCAGTTATTAACACACTCAAA
CTGGTGGAGCTTGTTACCCTAGGAAGGGGATTGTATATATGGCAGGCTTCCCTGGTGGCGATGTAAAGGGCTAC
ATTTGGGAACATTTGACTTCCTTGGGACTCTTAAGTGCATACTGATGGCATGAAGTAAAGGGGCTCAATGATG
ATAGGAAAATCAGTTCTTTTAAATTTCTTCAAGAAAATCCAGGCTATCACATAGTCTTTCTGTGTGACTTATTA
GGAGATAGGAAGAGCATTGGGAACTTGACAGCTAGCTATGCATCTACATTTTGGTTTGGGGTTAGTTATGAAA
TGTTCTTAATATGACGTGTTCAATAACTTCACATAAACTTCCTGTTCTCCAAACCTCAAAGAGATAGAGTTAAT
GAGTTGTTGTTTTTTTTTAAATGGGGGTAGTTTTCTATCTGTCTAGGGCTCTAGCATCTACTCCGCTACCCAATT
CTGTCTCTCCAGCTGAGTTTCTCTCTGAGGCAGAGGCTGGAGCAGTTCTTTTTTCTAGTTCTCATCCTCTCCA
TCCCAATCCAGTATATCAATCAACTCTAACTCGGAGACGTCTAGCTGGCAATGTTTCTAAAACCTTCACTGGATT
TCTTTAGACATTGAAGCAAACATTTTTTCTAAGAATTGCTTCTCAGATGATGATATCAAATGTATATGCTTTTG
CAAGTTTGAAAAGTTCAAATTAACCACTTTTGGCTAGGTAAGTCTTTCTAAAACCATTTAAAGCTAACTGGGTC
TTAGCATCCTCCTGTGTATGGAAGAGACAGGTGACCGCTCCAGGTTGGGTGCTCACAGAACCCTTTTCTGACTC
TCATGGAAGATGGTGAAGGAAAAATAGACTGTCTCATCAACCCTCCTGTGTCTCTGAAGCAATCTCAGTTTTTA
TTAACCACCTCTTCTGTGTTTCTGGTAGCTATTTAACCTGTATTTAATCTGTACTTCTATGCCAGCCTCAATTT
TATTTGATTTTTTAAATTAATCTCTTCTAACCATGAAGTGTTTGTGAGTATGCCCCAAAGCTTGCTCTTTTGTG
CTCCCTTTTGAATAACTTTCTATCCAGAAAAAGAGATTATTTGGGACTTGAGATTTGCAGTGATACCAACTTATA
GCAATGATGTACTTTAAGGGAACCTACCAACTATGTTGTGATAGAAGAAAGAGAAACCTTCACTTTGGCATTITT
TTTAATCACTGTTTATTTTCTGTTTGGCGCCAGGAAGCAGTGGGAGGTGGTGGCAGATATGCTTTGCATATGG
ATTGTTATGTTTTTATTTGGGCAAGTTTAATCATGGAAACTCAAAAAGAAGGGGGGAAATGGTCAGTTTAAGCC
AAAAGAACTTTCTAAACAATGTATAGGTACACAGCAAAATTAACAAATCCAACAATTTCTGAAGCTTAGTGTA
ATTGAGTGGTGGTTGTTATTCAATAAAATTAATCCCAAAAGTGTTTCTCCTAAGAGTGCAGTTCCCATGAGTCAC
TTCTGAACCCATTGACCAAGGTGGACAGAGACAATCCTGTAGACCTTGACATTAGAAAGATGTGAGCTGCTT
ACTGATCATATATGCATACGTTTCTTTACAGCAGAGGAAACCATTTGTCCACAAAACCTGATGTTCTTTTGGGGTTT
TATGTACAGACTTGTCCAATCATGTGTGTGGTTTCTGCGAGTTGCTGATGACTCCGCATTGAAGCTCTCTGAGTT
CTTTGATTTTAAAGTTGGGTTTATGGAATTTTTTCAAATGTTGGAAGGCGTGTGGTTCTTCTGCCCCCTCCCC
TTTTGGAATATGAAAGCAAATGTTTAGAAGAATTCCTTTTGAAGCTGTGTGCTGTTCCCTGTGAAACTGAGC
AGGTGTGTGTTGGCGCGCTAAGTGCCACATGCTTGTGTGTAGAGGAGGAGGTGGCCCTGCCGGCTCCGCGCTGCT
GTGCCGTGTATCCCTACCTGCTCCCCGCTCCTGTTGCCAGCAGCACTCACTGCACTCCTTTGTGATATACTCTGC
ATCACTGTCACTACCAACTTCGTGAATAAAGTTGTGTGCTTTATTCGTC

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FIGURE 129

MYGTRCHGCGEFVEGEVVTALGKTYHPNCFACITCKRPFPPGDRVTFNGRDCLCQLCAQPMSSSPKETTFSSNCA
GCGRDIKNGQALLALDKQWHLGCFKCKSCGKVLTEYISKDGAPYCEKDYQGLFGVKCEACHQFITGKVL EAGDK
HYHPSCARCSRCNQMFTEGEEMYLGSTVWHPDCKQSTKTEEKL RPTRTSSESIYSRPGSSIPGSPGHTIYAKVD
NEILDYKDLAAIPKV KAIYDIERPDLITYEPFYTSGYDDKQERQSLGESPRTLSPTPSAEGYQDVDRMIHRSTS
QGSINSPVYSRHSYTPTTSRSPQHFRPGNEPSSGRNSPLPYRPDSLPLTPTYAQAPKHFHVPDQG INIYRKPPI
YKQHRALAAQSKSSEDI IKFSKFPAAPDPSETPKIETHWPGPPSFAVVGPD MKRRSSGREEDDEELLRRRQL
QEEQLMKLN SGLGQLILKEEMEKESRERSLLASRYDSPINSASHIPSSKTASLPGYGRNGLHRPVST DFAQYNS
YGDVSGGVRDYQTL PDGHMPAMRMDRGVSM PNMLEPKIFPYEMLMVTNRGRNKILREVDRTRLERHLAPEVFREI
FGMSIQEFDR LPLWRRNDM KKKAKLF

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FIGURE 130A

CACGAGGCAGCACTCTCTTCGTCGCTTCGGCCAGTGTGTCTGGGCTGGGCCCTGACAAGCCACCTGAGGAGAGGGCT
CGGAGCCGGGCCCCGACCCCGGCGATTGCCGCCCCGCTTCTCTCTAGTCTCACGAGGGGTTTCCCGCCTCGCACCC
CCACCTCTGGACTTGCCTTTTCCTTCTCTTCTCCGCGTGTGGAGGGAGCCAGCGCTTAGGCCGGAGCGAGCCTGGG
GGCCGCCCGCCGTGAAGACATCGCGGGGACCGATTACCAATGGAGGGCGCCGGCGGGCGGAACGACAAGAAAAAG
ATAAGTTCTGAACGTCGAAAAGAAAAGTCTCGAGATGCAGCCAGATCTCGGCGAAGTAAAGAATCTGAAGTTTTT
TATGAGCTTGCTCATCAGTTGCCACTTCCACATAATGTGAGTTCGCATCTTGATAAGGCCTCTGTGATGAGGCTT
ACCATCAGCTATTTGCGTGTGAGGAAACTTCTGGATGCTGGTGATTGGATATTGAAGATGACATGAAAGCACAG
ATGAATTGCTTTTTATTTGAAAGCCTTGGATGGTTTTGTTATGGTTCTCACAGATGATGGTGACATGATTTACATT
TCTGATAATGTGAACAAATACATGGGATTAACCTCAGTTTGAACCTAAGTGGACACAGTGTGTTTGATTTTACTCAT
CCATGTGACCATGAGGAAATGAGAGAAATGCTTACACACAGAAATGGCCTTGTGAAAAAGGGTAAAGAACAAAAC
ACACAGCGAAGCTTTTTTCTCAGAATGAAGTGTACCTAAGTCCGAGGAAGAAGTATGAACATAAAGTCTGCA
ACATGGAAGGTATTGCACTGCACAGGCCACATTACGTATATGATACCAACAGTAACCAACCTCAGTGTGGGTAT
AAGAAACCACCTATGACCTGCTTGGTGCTGATTGTGAACCCATTCTCACCATCAAATATTGAAATTCCTTTA
GATAGCAAGACTTTCTCAGTCGACACAGCCTGGATATGAATTTTCTTATTGTGATGAAAGAATTACCGAATTG
ATGGGATATGAGCCAGAAGAACTTTTAGGCCGCTCAATTTATGAATATTATCATGCTTTGGACTCTGATCATCTG
ACCAAACTCATCATGATATGTTTACTAAAGGACAAGTCACCACAGGACAGTACAGGATGCTTGCCAAAAGAGGT
GGATATGTCTGGGTTGAACTCAAGCAACTGTCATATATAACACCAAGAATTCTCAACCACAGTGCATTGTATGT
GTGAATTACGTTGTGAGTGGTATTATTCAGCAGCACTTGATTTTCTCCCTTCAACAAACAGAATGTGTCCTTAAA
CCGTTTGAATCTTCAGATATGAAAATGACTCAGCTATTCACCAAGTTGAATCAGAAGATACAAGTAGCCTCTTT
GACAACTTAAAGGAACCTGATGCTTTAACTTTGCTGGCCCCAGCCGCTGGAGACACAATCATATCTTTAGAT
TTTGGCAGCAACGACACAGAACTGATGACCAGCAACTTGAGGAAGTACCATTATATAATGATGTAATGCTCCCC
TCACCCAACGAAAAATTACAGAATATAAATTTGGCAATGTCTCCATTACCCACCGCTGAAACGCCAAAGCCACTT
CGAAGTAGTGCTGACCTGCACTCAATCAAGAAGTTGCATTAATAATTAGAACCAATCCAGAGTCACTGGAAGT
TCTTTTACCATGCCCCAGATTCAGGATCAGACACCTAGTCCTTCCGATGGAAGCACTAGACAAAAGTTCACCTGAG
CCTAATAGTCCAGTGAATATTGTTTTATGTGGATAGTGATATGGTCAATGAATTCAAGTTGGAATTGGTAGAA
AACTTTTTTGCTGAAGACACAGAAGCAAAGAACCATTCTTCTACTCAGGACACAGATTTAGACTTGGAGATGTTA
GCTCCCTATATCCCAATGGATGATGACTTCCAGTTACGTTCTTTCGATCAGTTGTACCATTAGAAAGCAGTTCC
GCAAGCCCTGAAAAGCGCAAGTCTCAAAGCACAGTTACAGTATTCCAGCAGACTCAAATACAAGAACCTACTGCT
AATGCCACCACTACCACTGCCACCACTGATGAATTAACACAGTGACAAAAGACCGTATGGAAGACATTAAATA
TTGATTGCATCTCCATCTCCTACCCACATACATAAAGAACTACTAGTGCCACATCATCACCATATAGAGATACT
CAAAGTCGGACAGCCTCACCAACAGAGCAGGAAAAGGAGTCATAGAACAGACAGAAAAATCTCATCCAAGAAGC
CCTAACGTGTTATCTGTGCTTTGAGTCAAAGAAGTACAGTTCTGAGGAAGAAGTAAATCCAAGATACTAGCT
TTGCAGAAATGCTCAGAGAAAGCGAAAAATGGAACATGATGGTTCACTTTTTCAAGCAGTAGGAATTGGAACATTA
TTACAGCAGCCAGACGATCATGCAGCTACTACATCACTTTCTTGAAACGTGTAAGGATGCAAATCTAGTGAA
CAGAATGGAATGGAGCAAAAGACAATTATTTTAATACCCTCTGATTTAGCATGTAGACTGCTGGGGCAATCAATG
GATGAAAGTGGATTACCACAGCTGACCAGTTATGATTGTGAAGTTAATGCTCCTATACAAGGCAGCAGAAACCTA
CTGCAGGGTGAAGAATTACTCAGAGCTTTGGATCAAGTTAACTGAGCTTTTCTTAATTTTATTCTTTTTTGG
ACACTGGTGGCTCACTACCTAAAGCAGTCTATTTATATTTCTACATCTAATTTAGAAAGCCTGGCTACAATACT
GCACAACTTGGTTAGTTCAATTTTGTATCCCTTTCTACTTAATTTACATTAATGCTCTTTTTTAGTATGTTCT
TTAATGCTGGATCACAGACAGCTCATTTTCTCAGTTTTTGGTATTTAAACCATTGCATTGCAGTAGCATCATTT
TAAAAATGCACCTTTTTATTTATTTATTTTGGCTAGGGAGTTTATCCCTTTTTCGAATTATTTTAAAGAAGAT
GCCAATATAATTTTTGTAAGAAGGCAGTAACCTTTCATCATGATCATAGGCAGTTGAAAAATTTTACACCTTTT
TTTTACATTTTACATAAATAATAATGCTTTGCCAGCAGTACGTGGTAGCCACAATTGCACAATATATTTCTTA
AAAAATACCAGCAGTTACTCATGGAATATATTCTGCGTTTATAAACTAGTTTTTAAAGAAGAAATTTTTTTGGC
CTATGAAATTGTTAAACCTGGAACATGACATTGTTAATCATATAATAATGATTCTTAATGCTGTATGGTTTTATT
ATTTAAATGGGTAAAGCCATTTACATAATATAGAAAGATATGCATATATCTAGAAGGTATGTGGCATTATTTGG
ATAAAATTTCTCAATTCAGAGAAATCATCTGATGTTTCTATAGTCACTTTGCCAGCTCAAAGAAAACAATACCCT
ATGTAGTTGTGGAAGTTTATGCTAATATTGTGTAAGTATTAACCTAAATGTTCTGCCTACCCTGTTGGTAT

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FIGURE 130B

AAAGATATTTTGAGCAGACTGTAAACAAGAAAAAAAAAATCATGCATTCTTAGCAAAATTGCCTAGTATGTTAAT
TTGCTCAAAATACAATGTTTGATTTTATGCACTTTGTCGCTATTAACATCCTTTTTTTCATGTAGATTCAATAA
TTGAGTAATTTTAGAAGCATTATTTTAGGAATATATAGTTGTCACAGTAAATATCTTGTTTTTCTATGTACATT
GTACAAATTTTTCATTCCTTTTGCTCTTTGTGGTTGGATCTAACACTAACTGTATTGTTTTGTTACATCAATAA
ACATCTTCTGTGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 131

MEGAGGANDKKKISSERRKEKSRDAARSRRSKESEVFYELAHQLPLPHNVSSHLDKASVMRLTISYLRVRKLLDA
3DLDIEDDMKAQMNC FYLKALDGFVMVLTDGDMIYISDNVNKYMGLTQFELTGHSVDFDTHPCDHEEMREMLTH
RNGLVKKGKEQNTQRSFFLRMKCTLT SRGRTMNIKSATWKVLHCTGHIHVYDTNSNPQC GYKKPPMTCLVLICE
P IPHPSNIEIPLDSKTFLSRHS LDMKFSYCDERITELMGYEPEELLGRS IYEYHALDS DHLT KTHDMFTKGQV
YRMLAKRGGYVWVETQATVIYNTKNSQPQCIVCVNYVVSGIIQHDLIFSLQQTECVLKPVESSDMKMTQLF
SSED TSSLFDKLKKEPDALTLLAPAAGDTIISLDFGSNDTETDDQQLEEVPLYNDVMLPSPNEKLQINLAM
TAETPKPLRSSADPALNQEVALKLEPNPESLELSFTMPQIQDQTPSPSDGSTROSSPEPNPSEYCFYVDS
WVNEFKLELVEKLFAEDTEAKNPFSTQD TDLDLEMLAPYIPMDDDFQLRSFDQLSPLESSSASPESASPQSTVT
TQIQEPTANATTTTATTDDELKTVTKDRMEDIKILIASPSPTHIHKETTSATSSPYRDTQSRTASPNRAGKG
TEKSHPRSPNVLSVALSQRTTVPEEELNPKILALQNAQRKRKMEHDGSLFQAVGIGTLLQQPDDHAATTSL
KCKGCKSSEQNGMEQKTIILIPSDLACRLLGQSMDESGLPQLTSYDCEVNAPIQGSRNLLQGEELLRALDQV

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FIGURE 132

GCTTAGTGTAACCAGCGGCGTATATTTTTTAGGCGCCTTTTCGAAAACCTAGTAGTTAATATTCATTTGTTTAAA
TCTTATTTTATTTTAAAGCTCAAACCTGCTTAAGAATACCTTAATTCCTTAAAGTGAAATAATTTTTTGCAAAGGG
GTTTCCTCGATTGGAGCTTTTTTTTTCTTCCACCGTCATTTCTAACTCTTAAACCAACTCAGTTCATCATGG
TGATGTTCAAGAAGATCAAGTCTTTTGAGGTGGTCTTTAACGACCCTGAAAAGGTGTACGGCAGTGGCGAGAGGG
TGGCTGGCCGGGTGATAGTGGAGGTGTGTGAAGTTACTCGTGTCAAAGCCGTTAGGATCCTGGCTTGCGGAGTGG
CTAAAGTGCTTTGGATGCAGGGATCCCAGCAGTGCAAACAGACTTCGGAGTACCTGCGCTATGAAGACACGCTTC
TTCTGGAAGACCAGCCAACAGGTGAGAATGAGATGGTGATCATGAGACCTGGAAACAAATATGAGTACAAGTTTCG
GCTTTGAGCTTCCTCAGGGGCCTCTGGGAACATCCTTCAAAGGAAAAATATGGGTGTGTAGACTACTGGGTGAAGG
CTTTTCTTGACCGCCGAGCCAGCCAACCTCAAGAGACAAAGAAAAACTTTGAAGTAGTGGATCTGGTGGATGTCA
ATACCCCTGATTTAATGGCACCTGTGTCTGCTAAAAAAGAAAAGAAAGTTTCCCTGCATGTTTATTCTGATGGGC
GGGTGTCTGTCTGTCTCGAATTGACAGAAAAGGATTCTGTGAAGGTGATGAGATTTCCATCCATGCTGACTTTG
AGAATACATGTTCCCGAATTGTGGTCCCCAAAGCTGCCATTGTGGCCCGCCACACTTACCTTGCCAATGGCCAGA
CCAAGGTGCTGACTCAGAAGTTGTTCATCAGTCAGAGGCAATCATATTATCTCAGGGACATGCGCATCATGGCGTG
GCAAGAGCCTTCGGGTTCAGAAGATCAGGCCTTCTATCCTGGGCTGCAACATCCTTCGAGTTGAATATTCCTTAC
TGATCTATGTTAGCGTTCCTGGATCCAAGAAGGTCATCCTTGACCTGCCCTGGTAATTGGCAGCAGATCAGGTC
TAAGCAGCAGAACATCCAGCATGGCCAGCCGAACCAGCTCTGAGATGAGTTGGGTAGATCTGAACATCCCTGATA
CCCCAGAAGCTCCTCCCTGCTATATGGATGTCTTCTGAAGATCACCGATTGGAGAGCCCAACAACCTCCTCTGC
TAGATGACATGGATGGCTCTCAAGACAGCCCTATCTTTATGTATGCCCTGAGTTCAAGTTTCATGCCACCACCGA
CTTATACTGAGGTGGATCCCTGCATCCTCAACAACAATGTGCAGTGAGCATGTGGAAGAAAAGAAGCAGCTTTAC
CTACTTGTCTCTTTTGTCTCTCTTCTGGACACTCACTTTTTCAGAGACTCAACAGTCTCGTCAATGGAGTGTG
GGTCCACCTTAGCCTCTGACTTCCTAATGTAGGAGGTGGTCAGCAGGCAATCTCCTGGGCCTTAAAGGATGCGGA
CTCATCCTCAGCCAGCGCCCATGTTGTGATACAGGGGTGTTTGTGGATGGGTTTAAAAATAACTAGAAAACTC
AGGCCCATCCATTTTCTCAGATCTCCTTGAAAATTGAGGCCTTTTCGATAGTTTCGGGTGAGGTAAAAATGGCCT
CCTGGCGTAAGCTTTTCAAGGTTTTTGGAGGCTTTTGTAAATTGTGATAGGAACCTTGGACCTTGAACTTACG
TATCATGTGGAGAAGAGCCAATTTAACAACTAGGAAGATGAAAAGGGAAATTGTGGCCAAAACCTTGGGAAAAG
GAGGTTCTTAAATCAGTGTTTCCCCTTTGTGCACTTGTAAGAAAAAAGAAAAACCTTCTAGAGCTGATTTGAT
GGACAATGGAGAGAGCTTTCCCTGTGATTATAAAAAAGGAAGCTAGCTGCTCTACGGTCATCTTTGCTTAGAGTA
TACTTTAACCTGGCTTTTAAAGCAGTAGTAAGTCCCCACCAGGCTTAAAGCCATTTTGGAGCCTATTGC
ACTGTGTTCTCCTACTGCAAAATTTTCATATGGGAGGATGGTTTTCTCTTCATGTAAGTCTTGGAAATTGATTC
TAAGGTGATGTTCTTAGCACTTTAATTCCTGTCAAATTTTTGTCTCCCCTTCTGCCATCTTAAATGTAAGCTG
AAACTGGTCTACTGTGTCTCTAGGGTTAAGCCAAAAGACAAAAAAATTTTACTACTTTTGAGATTGCCCCAATG
TACAGAATTATATAATTCTAACGCTTAAATCATGTGAAAGGGTGTGCTGTGTGAGCCTTGCCACTGTGACTTCA
AACCAAGGAGGAACCTTGATCAAGATGCCCAACCCTGTGATCAGAACCTCCAAATACTGCCATGAGAACTAG
AGGGCAGGTGTTTATAAAAGCCCTTTGAACCCCTTCTGCCCTGTGTTAGGAGATAGGGATATTGGCCCTCAC
TGCAGCTGCCAGCACTTGGTCAGTCACTCTCAGCCATAGCACTTTGTTCACTGTCTGTGTGAGAGCACTGAGCT
CCACCCTTTTCTGAGAGTTATTACAGCCAGAAAGTGTGGGCTGAAGATGGTTGGTTTCATGTGGGGGTATTATGT
ACCC

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FIGURE 133

MVMFKKIKSFEVVFNDPEKVYSGSERVAGRVIVEVCEVTRVKAVRILACGVAKVLWMQGSQQCKQTSEYLRVEDT
LLEDQPTGENEMVIMRPGNKYEYKFGFELPQGPLGTSFKGKYGCVDYWVKAFIDRPSQPTQETKKNFEVVDLVD
VNTPDLMAPVSAKKEKKVSCMFIPDGRVSVSARIDRKGFCGDEISIHADFENTCSRIVVPKAAIVARHTYLANG
QTKVLTQKLSSVRGNHIISGTCASWRGKSLRVQKIRPSILGCNLRVEYSLLIYVSVPGSKKVILDPLVIGSRS
GLSSRTSSMASRTSSEMSWVDLNIPDTPEAPPCYMDVIPEDHRLESPTTPLLDDMDGSQDSPIFMYAPEFKFMPF
PTYTEVDPCILNNNVQ

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FIGURE 134

AGTGTGAAATCTTCAGAGAAGAATTTCTCTTTAGTTCTTTGCAAGAAGGTAGAGATAAAGACACTTTTTCAAAA
TGGCAATGGTATCAGAATTCCTCAAGCAGGCCTGGTTTATTGAAAATGAAGAGCAGGAATATGTTCAAACTGTGA
AGTCATCCAAAGGTGGTCCCGGATCAGCGGTGAGCCCCTATCCTACCTTCAATCCATCCTCGGATGTCGCTGCCT
TGCATAAGGCCATAATGGTTAAAGGTGTGGATGAAGCAACCATCATTGACATTCTAACTAAGCGAAACAATGCAC
AGCGTCAACAGATCAAAGCAGCATATCTCCAGGAAACAGGAAAGCCCCCTGGATGAAACACTTAAGAAAGCCCTTA
CAGGTACCTTGAGGAGGTTGTTTTAGCTCTGCTAAAACTCCAGCGCAATTTGATGCTGATGAACCTTCGTGCTG
CCATGAAGGGCCTTGGAAC TGATGAAGATACTCTAATTGAGATTTTGGCATCAAGAACTAACAAAGAAATCAGAG
ACATTAACAGGGTCTACAGAGAGGAACTGAAGAGAGATCTGGCCAAAAGACATAACCTCAGACACATCTGGAGATT
TTCGGAACGCTTTGCTTTCTCTTGCTAAGGGTGACCGATCTGAGGACTTTGGTGTGAATGAAGACTTGGCTGATT
CAGATGCCAGGGCCTTGATGAAGCAGGAGAAAGGAGAAAGGGGACAGACGTAAACGTGTTCAATACCATCCTTA
CCACCAGAAGCTATCCACAACCTTCGCAGAGTGTTTCAGAAATACACCAAGTACAGTAAGCATGACATGAACAAAG
TTCTGGACCTGGAGTTGAAAGGTGACATTGAGAAATGCCTCACAGCTATCGTGAAGTGCGCCACAAGCAAACCAG
CTTTCTTTGCAGAGAAGCTTCATCAAGCCATGAAAGGTGTTGGAAC TCGCCATAAGGCATTGATCAGGATTATGG
TTCCCGTTCTGAAATTGACATGAATGATATCAAAGCATTCTATCAGAAGATGTATGGTATCTCCCTTTGCCAAG
CCATCCTGGATGAAACCAAAGGAGATTATGAGAAAATCCTGGTGGCTCTTTGTGGAGGAACTTAAACATTCCCTT
GATGGTCTCAAGCTATGATCAGAAGACTTTAATTATATATTTTCATCCTATAAGCTTAAATAGGAAAGTTTCTTC
AACAGGATTACAGTGTAGCTACCTACATGCTGAAAAATATAGCCTTTAAATCATTTTTATATTATAACTCTGTAT
AATAGAGATAAGTCCATTTTTTAAAAATGTTTTCCCAAACCATAAAACCCTATACAAGTTGTTCTAGTAACAAT
ACATGAGAAAGATGTCTATGTAGCTGAAAATAAAATGACGTCACAAGAC

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FIGURE 135

MAMVSEFLKQAWFIENEEQEYVQTVKSSKGGPGSAVSPYPTFNPSSDVAALHKAIMVKGVDIATIIDILTKRNNA
QRQQIKAAYLQETGKPLDETLKKALTGHLEEVVLALLKTPAQFDADELRAAMKGLGTDEDTLIEILASRTNKEIR
DINRVYREELKRDIAKDITS DTSGDFRNALLSLAKGDRSEDFGVNEDLADSDARALYEAGERRKGTDVNVFNTIL
TTRSYPQLRRVFQKYTKYSKHD MNKVLDELEKGDIEKCLTAIVKCATSKPAFFAEKLBQAMKGVGTRHKALIRIM
VSRSEIDMNDIKAFYQKMYGISLCQAILDETKGDYEKILVALCGGN

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FIGURE 136

GAAAGCTGTATTTGCTGCACGTGGAAATCTCCGTTATTTTCCAGCACCCAACAGTAGCGTAATGGGAGTAACGGA
CTTAACCTCATTCTCTTTTCCAGAGCATTAGCCTTCATATGCCCTTCCCTGCATGCTTCCCCCAGGCCGTCAAGA
CTTGAGTTCTGCCTCGCTTCCCGGCGCGGTGCGAGCCCTCAGCCCACTTAGGATAATGGCGACAGCTGAGGTACT
GAACATTGGTAAAAAATTATATGAGGGTAAAAACAAAAGAAGTCTACGAATTGTTAGACAGTCCAGGAAAAGTCCT
CCTGCAGTCCAAGGACCAGATTACAGCAGGAAATGCAGCTAGAAAAAACACCTGGAAGGAAAAGCTGCAATCTC
AAATAAAATCACCAGTTGTATTTTTCAGTTATTACAGGAAGCAGGTATTAAACTGCCTTCACCAGAAAATGTGG
GGAGACAGCTTTTCATTGCACCGCAGTGTGAAATGATTCCAATTGAATGGGTTTGCAGAAGAATAGCAACTGGTTC
TTTTCTCAAAAGAAATCCTGGTGTCAAGGAAGGATATAAGTTTTACCCACCTAAAGTGGAGTTGTTTTTCAAGGA
TGATGCCAATAATGACCCACAGTGGTCTGAGGAACAGCTGATTGCTGCAAAATTTTGCTTTGCTGGACTTCTTAT
AGGCCAGACTGAAGTGGATATCATGAGTCATGCTACACAGGCTATATTTGAAATACTGGAGAAATCCTGGTTGCC
CCAGAATTGTACACTGGTTGATATGAAGATTGAATTTGGTGTGATGTAACCACCAAAGAAATTGTTCTTGCTGA
TGTTATTGACAATGATTCTGAGACTCTGGCCATCAGGAGATCGAAGCCAACAGAAAGACAAACAGTCTTATCG
GGACCTCAAAGAAGTAACTCCTGAAGGGCTCCAAATGGTAAAGAAAACTTTGAGTGGGTTGCAGAGAGAGTAGA
GTTGCTTTTGAAATCAGAAAGTCAGTGCAGGGTTGTAGTGTGATGGGCTCTACTTCTGATCTTGGTCACTGTGA
AAAAATCAAGAAGGCCTGTGAAAATTTGGCATTCCATGTGAACCTCGAGTAACATCTGCGCATAAAGGACCAGA
TGAAACTCTGAGGATTAAAGCTGAGTATGAAGGGGATGGCATTCTACTGTATTTGTGGCAGTGGCAGGCAGAAG
TAATGGTTTGGGACCAGTGATGTCTGGGAACACTGCATATCCAGTTATCAGCTGTCTCTCCCTCACACCAGACTG
GGGAGTTCAGGATGTGTGGTCTTCTCTTCGACTACCCAGTGGTCTTGGCTGTTCAACCGTACTTTCTCCAGAAGG
ATCAGCTCAATTTGCTGCTCAGATATTTGGGTAAAGCAACCATTGGTATGGAGCAAACCTGCGAGCAAGCATTTT
GAACACATGGATTTCTTGAAGCAGGCTGACAAGAAAATCAGAGAATGTAATTTATAAGAAAAGAATGCCATTGAA
TTTTTTAGGGGAAAAACTACAAATTTCTAATTTAGCTGAAGGAAAATCAAGCAAGATGAAAAGGTAATTTTAAAT
TAGAGAACACAAATAAAATGTATTAGTGAATAAATGCTTCTCTAGATCCATATTAATAAACATGAGCATCTAACC
CCTCCTTTCTTAGGCTAGACACCAAGATATTTAGCCAGCCTTTATCATTCTCTTACTTTATCCTTTTTCTCTTA
AGTATTGGTGGTCACTACTATTGAGTTTCTTCTTAACACTGATTAAATGATCTTAACCTCCCTCAGCTAAACTG
GCATTACTGACTCCCAGCTATATTTCTCCAGACTTGCATTTTTTTTTTTTTTTTTTTTGGAGACAGGGTCTCACTGTG
CCCAGGCTGGAGTGCAGTGGCGTGATCTCAGTTCACTGTGCTTCCCTCTGGGCTCAAGCAGTTCTCCACCT
CAGCCTCTCGACTAACAGGGACTATAATCTTGACAGCACCATGCCGAGCTAATTTTATTTTTTGTAGAGATGAGCT
CTCACTATGTCACCCAGGTTTCGTCTCAAACCTCTGAACCCTAGTAATTTCTCTATCTCAGCCTCCCAAAGTGCTA
GGGTTACAGACATGAGCCACTGTGCCTGTCTAGACTTGTACTTTCAACTGTCCATTTCTCCCTGTCTGTCCCATG
GGCACTCATGAAAAAACAGAATGCTCCCAACTTTATTTCATCTTCCAAGCCTGTAGCTCTTGGTATACTCACTGTT
GCAAGTCAGAAGCTTGATTTTCATCATTGATGTTTTTCTCACGTTTCACATCTCACTCATCACCAGTCATGTTGG
TGTTAATTTCTGATTAACCCCTTGAATTTACCGTCTTCTCATCCTCTGTACAAAAGCCTCAAGTGAGGGTCAAATT
CAACATTATCCTGATCTAGACAGCCCCATTCTCAATCCACCCTTTTCCAAGTTGATTGCCCAAGGACTTCTAAC
AATAAACTCTCTTTTGCACCACAGACTTCTTTGAAAAATATACATGCTGTTGACCCTCTCTGTAGAAAACCGCACA
CATAAACTTACCAACAGATTTTATTGGTTCTTGGGTTCTCCCGAAGCCTATCCATGGTTTATAGATTAAGAATT
GATGAGGTAGCTGGGCACAGTGGCTCACACCTACGATCACAGCACTTCGGGAGGCTGAAGCAAGCAGATCACTTG
AGGTCAGGAGTTTGGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAGTAGCCAGC
CGTGATGACAGGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCATGAGAATTGCTTGAACCCGGGAGGCGGA
GGTTGCAGTGAGCCTGGATCATGCCACTGCACTCCAACCTGGGCAGCAGAGCAAGACTCTGTCTCAAAAGGGGAA
AAAAAAATTGCTGATGTGACCCATGAAGGGAACCTATTTTCTCGTAATTTTGGACTGCCACACATTGGTACCT
TTAGTTCTCTGAAGGCCCACGTTTTTATCATTAAAGACCTATTTGTTAGCTAGTAGAGCTTTATGTTCTGCTGTCCA
TGAAACCTTCTGTAACCACAGTGACTACAAGTAGTTCTTTCTCTATTGAATTATTAGGTCCAGAATAGAAGATGT
CATTGTACACTTTATTTCCCTCACACTGTGTTATGCTCTGATGTGCTATGCTTAGCTATCTGTGAGAGATTAGTA
AATTATAAACTCATGTGTACTACTTAAGTTTATATCTTATGCTAGTTTATAAGAACAATTAAGGACTTAGAA
GATTAAAAA

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FIGURE 137

MA TAEVLNIGKKLYEGKTKEVYELLDSPGKVLLQSKDQITAGNAARKNHLEGKAAISNKITSCIFQLLQEAGIKT
AFTRKCGETAFIAPQCEMPIEWVCRRIATGSFLKRNPVGKEGYKFYPPKVELFFKDDANNDPQWSEEQLIAAKF
CFAGLLIGQTEVDIMSHATQAIFEILEKSWLPQNCTLVDMKIEFGVDVTTKEIVLADVIDNDSWRLWPSGDRSQQ
YDKQSYRDLKEVTPEGLQMVKKNF EWVAERV ELLKSESQCRVVVLMGSTSDLGHCEKIKKACGNFGIPCEL RVT
*SPDETLRIKAEYEGDIPTVFVAVAGRSNGLGPVMSGNTAYPVISCPPLTPDWGVQDVWSSLRLPSGLGCS
*SGSAQFAAQIFGLSNHLVWSKLRASILNTWISLKQADKKIRECNL

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FIGURE 138

AAGAAAAAATAGGCCTGGTTGCCAXATTAAGGTCCCCTGGGCTATTTTAAACCGGATTGGATACCXAGGTCTT
TCCAXAGGCCGTATTTTGCCCCCGTAACCCXTAAAAAAGATTTCAAAATGCCGTTTTTCAGAACCTG
GGTTTTAATAGCAGTATTGAATTTGTAAGCTTAGTAGTTGCAGAAATTGAACACTAGGTGGCACTCAGTTATCTT
AACAGGGGAAGTACTGATACAATTGTTGACTTTTCTTTTACTATGTGTAAGAAATACCCCAAACATGAAAAGATT
GTTTTGATCATATGCATGTATGTAGAATATTTTTGCAGAGCAGAAAGATTATGTTAGAAGTGTGATTTTTATTTT
CAGAAGTCATATACATGTAAGCTACAATTTTGAGTGCTTTATAAACACTTAAGATATATATATAAATTTTAATTT
CATAGCAACTTGTAATAAATAAAATACTTGTTGAAAAGCCTTTTTCAACATATCCCTAAGCTAAGGGAAGAGGAA
GGAATAACAACCTCAGTGAAAAGATGGTCTCCAGTTTCTGAATGAAAAAGCTACAGCTGAGAAATAAATAAATG
TCATGCTGCAGAAATATGTTATACCCTTATTTTGTTAAGGATATATTTTATTATGTGAATGGTTTTGTTTTGT
TTTTGTTTTGTTTTTGCTTGTATTGGGAATTAGCTTTACTGGTAACTTCCTTATTTAGTTTTTAGTGGTCAA
CTCTAATAAATGAACTAGGGCTGAGCTAGTTAGCCCTCACTAGCCAACTGAACTCTATGCAACATTAAAG
AAGAGATCCATCATGTAGCTTGTGACACTTTTATTTTATTAGTCACCGGGGAACTTTTCAAGTATGAAAATACAC
AGGGTAATAAACCTTCACATGGCTTCAAAGGAAAACAAGCAAATCTTCTCTAATCTACTCTTACTATAATTTCC
TAAGTGTACACCAAACCTCTGGATTTAAAAATCTGAAGTACTATAGAACATTAAGTTGAAGAATGGAATTAAGAG
TACGTATTCATGGTTTATATTTCTTATTCTATGGAGTTCGTGAACACATCTAGGTGGAATGCATCTGAGACTAAG
GGCTGGTTTTTAATCCTCATAAGAAACCAGCCTTGAAGAATTAACAATTCTCTTCATTGGTATTCTAAACCTCCT
AAGATATTTAGGCTTCTGTACATAAAAGTGTTTTGCTAAATTTACAGTATATATAGATCCTTTTATATTATTTT
ACTAAGAATGTTTGAACTTTGATATTTGATATAGTTCCTGGTAGGAATAGCACAGCTCAAACATTAGTTTTTCT
ACTTACCTCCTCTAACACGTGGTTTGTCTGGAGAGTTTCTAAAAATTCAGCTATAACCCCAAGTTTATGTTTAC
TGGTGATTGTTCTTGCTGAGGTAGTAACAGCCCAATCTTGGGCTGTTAAATCCTAGGAAATCTCGAATCATAGTG
ATTAAATAGTTGGGGTAAAGTTGTAGCTTATATGCAATACTACTTGGAGGAATTTCTTACTAATTTGTATTTA
ATGTGGAATTTGTATAGTTTATTGATTTAATCATAAATAATGGAATGGTCTCCAAGAAGTTTTATTTTTCATT
TTTTTGCTTATACACTCTGATTCCTATAATACAGTGCTATAAGCTATGCACAGAAAATAAATGTTTGAAATCCA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAXGGGGG

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FIGURE 139

MVLFLFFVVFCLYWELALLVTSLSF

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FIGURE 140A

CGCGGGTCTGTGGAGAGCCGGGTGCGAGCGGCGGCAGCACGAGGGGAAAAGAGCTGAGCGGAGACCAAAGTCAGC
CGGGAGACAGTGGGTCTGTGAGAGACCGAATAGAGGGGCTGGGGCCACGAGCGCCATTGACAAGCAATGGGGAAG
AAACAGAAAAACAAGAGCGAAGACAGCACCAAGGATGACATTGATCTTGATGCCTTGGCTGCAGAAATAGAAGGA
GCTGGTGTGCCAAGAAGACAGGAGCCTCAAAAGTCAAAGGGAAAAAGAAAAAAGAGAAAAAAGCAGGACTTT
GATGAAGATGATATCCTGAAAGAACTGGAAGAATTGTCTTTGGAAGCTCAAGGCATCAAAGCTGACAGAGAACT
GTTGCAGTGAAGCCAACAGAAAAACAATGAAGAGGAATTACCTCAAAGATAAAAAAAGAAAGGACAGAAAGGGC
AAAAACAGAGTTTTGATGATAATGATAGCGAAGAATTGGAAGATAAAGATTCAAATCAAAAAGACTGCAAAA
CCGAAAGTGGAAATGTACTCTGGGAGTGATGATGATGATGATTTTAAACAACTTCCTAAAAAGCTAAAGGGAAA
GCTCAAAAATCAAATAAGAAGTGGGATGGGTGAGAGGAGGATGAGGATAACAGTAAAAAAATTAAGAGCGTTCA
AGAATAAATCTTCTGGTGAAGTGGTGATGAATCAGATGAATTTTGCAATCTAGAAAAGGACAGAAAAAAAT
CAGAAAAACAAGCCAGGTCCTAACATAGAAAGTGGGAATGAAGATGATGACGCCTCCTTCAAATTAAGACAGTG
GCCCCAAAAGAAGGCAGAAAAGAAGGAGCGCGAGAGAAAAAGCGAGATGAAGAAAAAGCGAACTGCGGAAGCTG
AAAGAAAAAGAAGAGTTAGAAACAGGTAAAAAGGATCAGAGTAAACAAAAGGAATCTCAAAGGAAATTTGAAGAA
GAACTGTAAAAATCCAAAGTGAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
GCTGCAGAAGATGACAATGAAGGAGACAAAAAGAAGAAAGATAAGAAGAAAAAGAAAGGAGAAAAGGAAGAAAA
GAGAAAGAGAAGAAAAAGGACCTAGCAAAGCCACTGTTAAAGCTATGCAAGAAGCTCTGGCTAAGCTTAAAGAG
GAAGAAGAAAGACAGAAGAGAGAAGAGGAAGAACGTATAAACGGCTTGAAGAATTAGAAGCCAAGCGTAAAGAA
GAGGAACGATTGGAACAAGAAAAAGAGAAAGGAAAAAGCAAAAAGAAAAAGAAAGAAAGAACGCTTGAAAAAA
GAAGGGAACTTTTAACTAAATCCCAGAGAGAAGCCAGAGCCAGAGCCGAAGCTACTCTTAACTGCTACAAGCT
CAGGGTGTGTAAGTGCCATCAAAGACTCTTTGCCAAAGAAGAGGGCCAATTTATGAAGATAAAAAGAGGAAAAAA
ATACCACAGCAGCTAGAAAGTAAAGAAGTGTCTGAATCAATGGAATTATGTGCTGCTGTAGAAGTTATGGAACAA
GGAGTACCAGAAAAGGAAGAGACACCACCTCCTGTTGAACCAGAAGAAGAAGATACTGAGGATGCTGGATTG
GATGATTGGGAAGCTATGGCCAGTGATGAGGAGACAGAAAAAGTAGAAGGAAACACAGTTTCATATAGAAGTAAAA
GAAAACCTGAAGAGGAGGAGGAGGAGGAAGAAGAGGAAGAAGAAGATGAAGAAAGTGAAGAAGAGGAGGAAGAG
GAGGGAGAAAGTGAAGGCAGTGAAGGTGATGAGGAAGATGAAAAGGTGTCAGATGAGAAGGATTTCAGGGAAGACA
TTAGATAAAAAGCCAAGTAAAGAAATGAGCTCAGATTCTGAATATGACTCTGATGATGATCGGACTAAAGAAGAA
AGGGCTTATGACAAAGCAAAACGGAGGATTGAGAAACGGCGACTTGAACATAGTAAAAATGTAAACACCGAAAAAG
CTAAGAGCCCCTATTATCTGCGTACTTGGGCATGTGGACACAGGGAAGACAAAAATCTAGATAAGCTCCGTCAC
ACACATGTACAAGACGGTGAAGCAGGTGGTATCACACAACAAATTTGGGCCACCAATGTTCCCTCTTGAAGCTATT
AATGAACAGACTAAGATGATTAAAAATTTGATAGAGAGAATGTACGGATTCCAGGAATGCTAATTATTGATACT
CCTGGGCATGAATCTTTAGTAATCTGAGAAATAGAGGAAGCTCTCTTTGTGACATTGCCATTTTAGTTGTTGAT
ATTATGCATGGTTTGGAGCCCCAGACAATTGAGTCTATCAACCTTCTCAAATCTAAAAATGTCCCTTCATTGTT
GCACTCAATAAGATTGATAGGTTATATGATTGGAAAAAGAGTCTGACTCTGATGTGGCTGCTACTTTAAGAAG
CAGAAAAAGAATACAAAAGATGAATTTGAGGAGCGAGCAAAGGCTATTATTGTAGAATTTGCACAGCAGGTTTG
AATGCTGCTTTGTTTTATGAGAATAAAGATCCCCGCACTTTTGTGTCTTTGGTACCTACCTCTGCACATACTGGT
GATGGCATGGGAAGTCTGATCTACCTTCTTGTAGAGTTAACTCAGACCATGTTGAGCAAGAGACTTGCACACTGT
GAAGAGCTGAGAGCACAGGTGATGGAGGTTAAAGCTCTCCGGGGATGGGCACCACTATAGATGTCATTTTGATC
AATGGGCGTTTGAAGGAAGGAGATACAATCATTGTTCTGGAGTAGAAGGGCCCATTTGTAATCAGATTCGAGGC
CTCCTGTTACCTCCTCCTATGAAGGAATTACGAGTGAAGAACCAGTATGAAAAGCATAAAGAAGTAGAAGCAGCT
CAGGGGGTAAAGATTCTTGAAAAAGACCTGGAGAAAACATTGGCTGGTTTACCCCTCCTTGTGGCTTATAAAGAA
GATGAAATCCCTGTTCTTAAAGATGAATTGATCCATGAGTTAAAGCAGACACTAAATGCTATCAAATTAGAAGAA
AAAGGAGTCTATGTCCAGGCATCTACACTGGGTTCTTTGGAAGCTCTACTGGAATTTCTGAAAACATCAGAAGTG
CCCTATGCAGGAATTAACATTGGCCAGTGATGATAAAAAAGATGTTATGAAGGCTTCAGTGATGTTGGAACATGAC
CCTCAGTATGCAGTAATTTTGGCCTTCGATGTGAGAATTGAACGAGATGCACAAGAAATGGCTGATAGTTTAGGA
GTTAGAATTTTGTGTCAGAAATTATTTATCATTATTTGATGCCTTTACAAAATATAGACAAGACTACAAGAAA
CAGAAACAAGAAGAAATTTAAGCACATAGCAGTATTTCCCTGCAAGATAAAAAATCCTCCCTCAGTACATTTTTAAT
TCTCGAGATCCGATAGTGATGGGGTGACGGTGAAGCAGGTGAGTGAACAGGGGACACCCATGTGTGTCCCA
AGCAAAAATTTTGTGACATCGGAATAGTAACAAGTATTGAAATAAACCATAAACAAGTGGATGTTGCAAAAAA

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FIGURE 140B

GGACAAGAAGTTTGTGTAAAAATAGAACCTATCCCTGGTGAGTCACCCAAAATGTTTGGAAGACATTTTGAAGCT
ACAGATATTCTTGTTAGTAAGATCAGCCGGCAGTCCATTGATGCACTCAAAGACTGGTTCAGAGATGAAATGCAG
AAGAGTGACTGGCAGCTTATTGTGGAGCTGAAGAAAGTATTTGAAATCATCTAATTTTTTCACATGGAGCAGGAA
CTGGAGTAAATGCAATACTGTGTTGTAATATCCCAACAAAAATCAGACAAAAAATGGAACAGACGTATTTGGACA
CTGATGGACTTAAGTATGGAAGGAAGAAAAATAGGTGTATAAAATGTTTTCCATGAGAAACCAAGAACTTACAC
TGGTTTGACAGTGGTCAGTTACATGTCCCCACAGTTCCAATGTGCCTGTTCACTCACCTCTCCCTTCCCCAACCC
TTCTCTACTTGGCTGCTGTTTTAAAGTTTGCCCTTCCCCAAATTTGGATTTTTATTACAGAGTCTAAAGCTCTTT
CGATTTTATACTGATTAAATCAGTACTGCAGTATTTGATTAAACCA

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FIGURE 141

MGKKQKNKSEDSTKDDIDLDAEIEGAGAAKEQEPQKSKGKKKKEKKKQDFDEDDILKELEELSLEAQGIKAD
RETVAVKPTENNEEEFTSKDKKKKGQKQKQSFDDNDSEELEDKDSKSKKTAKPKVEMYSGSDDDDDFNKLPKKA
KGKAQKSNKKWDGSEEDDNSKKIKERSRINSSGESGDESDEFQSRKGQKKNQKNKPGPNIESGNEDDDASFKI
KTVAQKKAEEKERERKKRDEEKAKLRKLKEKEELETGKKDQSKQKESQRKFEEETVKS SVTVDTGVIPASEEKAE
TPTAAEDDNEGDKKKKDKKKKKEKEEKEKEKKKGP SKATVKAMQEALAKLKEEEEERQKREEEERI KRLEELEAK
RKEEERLEQEKREKKQKEKERKERLKEGKLLTKSQREARARAEATLKLQAQGVVPSKDSLPPKKRPIYEDKK
RKKIPQQLSKEVSESMELCAAVEVMEQGVPEKEETPPPVEPEEEEDTEDAGLDDWEAMASDEETEKVEGNTVHI
EVKENPEEEEEEEEEEEEEDEESEESEEEEEGESEGESEDEDEKVSDEKDSGKTLDKKPSKEMSSDSEYDSDDDR
KEERAYDKAKRRIEKRRLEHRSKNVNTKLRAP IICVLGHVDTGKTKILDKLRHTHVQDGEAGGITQQIWATNVPL
EAINQTKMIKNFDRENVRI PGMLIIDTPGHESFSNLRNRGSSSLCDIAILVVDIMHGLEPQTIESINLLKSKKCP
FIVALNKIDRLYDWKKS PDSVVAATLKKQKKNTKDEFEERAKA IIVEFAQQGLNAALFYENKDPRTFVSLVPTSA
HTGDGMGSLIYLLVELTQTMLSKRLAHCEELRAQVMEVKALPGMGTTIDVILINGRLKEGDTIIVPGVEGP IVTQ
IRGLLLPPPMKELRVKNQYKHKVEAAQGVKILGKDLEKTLAGLPLLVAYKEDEIPVLKDELIHELKQTLNAIK
LEEKGVYVQASTLGSLEALLEFLKTSEVPYAGINIGPVHKKDVMKASVMLEHDPQYAVILAFDVRIERDAQEMAD
SLGVRIFSAEIIYHLFDAFTKYRQDYKKQKQEEFKHIAVFPCKIKILPQYIFNSRDP IVMGVTVEAGQVKQGT
PM CVPSKNFVDIGIVTSIEINHKQVDVAKKGQEVCKIEPIPGESPKMFGRHFEATDILVSKISRQSIDALKDWFRD
EMQKSDWQLIVELKKVFEII

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FIGURE 142

CCCGGACGTGCGGCTCCCCTCGGCCTCCTCGCCATGGACGCGGACGACTCCCGGGCCCCCAAGGGCTCCTTGCGG
AAGTTCCTGGAGCACCTCTCCGGGGCCGGCAAGGCCATCGGCGTGCTGACCAGCGCGGGGATGCTCAAGGTATG
AACGCTGCCGTCCGTGCCGTGGTGCGCATGGGTATCTACGTGGGGGCCAAGGTGTACTTCATCTACGAGGGCTAC
CAGGGCATGGTGGACGGAGGCTCAAACATCGCAGAGGCCGACTGGGAGAGTGTCTCCAGCATCCTGCAAGTGGGC
GATCATTGGCAGTGCGCGGTGCCAGGCCTTCGCGACGCGGGAAGGCCGCTGAAGGCTGCTTGCAACCTG
GCGCGGCATCACCAACCTGTGTGTGATCGGCGGGGACGGGAGCCTCACCGGGGCCAACCTCTTCCGGAAG
GAGTGGGCTGCTGGAGGAGCTGGCCAGGAACGGCCAGATCGATAAGGAGGCCGTGCAGAAGTACGCCTAC
AACGTGGTGGGCATGGTGGGCTCCATCGACAATGATTCTGCGGCACCGACATGACCATCGGCACGGACTCC
GACAGGATCATCGAGGTGCTCGACGCCATCATGACCACGGCCCAGAGCCACCAGAGGACCTTCGTTCTG
GATGGGACGACACTGTGGGTACCTGGCCCTGGTGAGTGCCCTTGGCCTGCGGTGCGGACTGGGTGTTCCTT
ATCTCCACCAGAGGAAGGCTGGGAGGAGCAGATGTGTGTCAAACCTCTCGGAGAACCGTGCCCGGAAAAA
GAATATTATTATTGTGGCTGAAGGAGCAATTGATACCCAAAATAAACCCATCACCTCTGAGAAAAATCAA
TTGTGTCACGCAGCTGGGCTATGACACACGTGTGACCATCCTCGGGCACGTGCAGAGAGGAGGGACCCCT
GCATTTCGACAGGATCTTGGCCAGCCGCATGGGAGTGGAGGCAGTCATCGCCTTGCTAGAGGCCACCCCGGAC
CCAGCTTGCGTCTGTGCTACTGAACGGGAACACGCCGTGCGCCTGCGCTGATGGAGTGCGTGACATGACT
CAGGATGTGCAGAAGGCGATGGACGAGAGGAGATTCAAGATGCGGTTGACTCCGAGGGAGGAGCTTTCGCGGC
AACCTGAACACCTACAAGCGACTTGCCATCAAGCTGCCGGATGATCAGATCCCAAAGACCAATTGCAACGTAGCT
GTCATCAACGTGGGGGACCCGCGGCTGGGATGAACGCGGCCGTACGCTCAGCTGTGCGGTGGGCATTGCCGAC
GGCCACAGGATGCTCGCCATCTATGATGGCTTTGACGGCTTCGCCAAGGGCCAGATCAAAGAAATCGGCTGGACA
GATGTGCGGGGCTGGACCGGCCAAGGAGGCTCCATTCTTGGGACAAAACGCGTTCTCCCGGGGAAGTACTTGAA
GAGATCGCCACACAGATGCGCACGCACAGCATCAACGCGCTGCTGATCATCGGTGGATTTCGAGGCCTACCTGGGA
CTCCTGGAGCTGTGAGCCGCCCGGGAGAAGCACGAGGAGTTCTGTGTCCCCATGGTCATGGTTCCCGCTACTGTG
TCCAACAATGTGCCGGGTTCCGATTTACGATCGGGGCAGACACCGCCCTGAACACTATCACCGACACCTGCGAC
CGCATCAAGCAGTCCGCCAGCGGAACCAAGCGGCGCGTGTTCATCATCGAGACCATGGGCGGCTACTGTGGCTAC
CTGGCCAACATGGGGGGGCTCGCGGCCGGAGCTGATGCCGCATACATTTTCGAAGAGCCCTTCGACATCAGGGAT
CTGCAGTCCAACGTGGAGCACCTGACGGAGAAAATGAAGACCACCATCCAGAGAGGCCTTGTGCTCAGAAATGAG
AGCTGCAGTGAAAACACACCACCGACTTCATTTACCAGCTGTATTGAGAAGAGGGCAAAGGCGTGTGTTGACTGC
AGGAAGAACGTGCTGGGTACATGCAGCAGGGTGGGGCACCTCTCCATTTGATAGAAAACCTTGGAAACCAAAATC
TCTGCCAGAGCTATGGAGTGGATCACTGCAAAACTCAAGGAGGCCCGGGGCAGAGGAAAAAAATTTACCACCGAT
GATTCCATTTGTGTGCTGGGAATAAGCAAAAGAAACGTTATTTTCAACCTGTGGCAGAGCTGAAGAAGCAAAACG
GATTTTGAGCACAGGATTCCCAAAGAACAGTGGTGGCTCAAGCTACGGCCCTCATGAAAATCCTGGCCAAGTAC
AAGGCCAGCTATGACGTGTGCGACTCAGGCCAGCTGGAACATGTGCAGCCCTGGAGTGTCTGACCCAGTCCCGCC
TGCATGTGCCTGCAGCCACCGTGGACTGTCTGTTTTGTAACACTTAAGTTATTTTATCAGCACTTTATGCACGT
ATTATTGACATTAATACCTAATCGGCGAGTGCCCATCTGCCCCACCAGCTCCAGTGCCTGCTGTCTGTGGAGTGT
GTCTCAIGCTTTTCAGATGTGCATATGAGCAGAATTAATTAA

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FIGURE 143

MDADDSRAPKGSRLRKFLEHLSGAGKAIGVLTSGGDAQGMNAAVRAVVRMGIIYVGAKVYFIYEGYQGMVDGGSNIA
EADWESVSSILQVGGTIIGSARCQAFRTREGRLLKAAACNLLQRGITNLCVIGGDGSLTGANLFRKEWSGLLEELAR
NGQIDKEAVQKYAYLNVVGMVGSIDNDFCGTDMTIGTDSALHRIIEWVDAIMTTAQSHQRTFVLEVMGRHCGYLA
LVSALACGADWVFLPESPPEEGWEEQMCVKLSNRARKKRLNIIIVAEGAIDTQNKPIITSEKIKELVVTQLGYDT
RVTILGHVQRGGTPSAFDRILASRMGVEAVIALLEATPDTPACVVSLNGNHAVRLPLMECVQMTQDVQKAMDERR
FQDAVRLRGRSFAGNLNTYKRLAIKLPDDQIPKTN CNVAVINVGAPAAGMNAAVRS AVR VGIADGHRMLAIYDGF
DGFAGQIKEIGWTDVGGWTGQGG SILGTRVLP GKYLEE IATQMRTHSINALLIIGGFEAYLGLLELSAAREKH
EEFCVPMVMVPATVSNNVPGSDFSIGADTALNTITDTCRIKQSASGTRRVFIIETMGGYCGYLANMGGLAAGA
DAAYIFEEPFDIRDLQSNVEHLTEKMKTTIQRGLVLRNESCSENYTTDFIYQLYSEEKGVFDCRKNVLGHMQQG
GAPSPFDRNFGTKISARAMEWITAKLKEARGRGKKFTTDDSI CVLGISKRN VIFQPVAELKKQTD FEHRIPKEQW
WLKLRPLMKILAKYKASYDVSDSGQLEHVQPWSV

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FIGURE 144

CCATTGTGCTCTAAAGGGAAGGTGCTGTGTAATCATTAAAGGAGCGGAGGCTTTTGGAGCTGCTAAATGCCGGAT
TACCTCGGTGCCGATCAGCGGAAGACCAAGAGGATGAGAAGGACGACAAGCCCCATCCGAGCTCTGGATGAGGGG
GATATTGCCTTGTTGAAAACCTTATGGTCAGAGCACTTACTCTAGGCAGATCAAGCAAGTTGAAGATGACATTGAG
CAACTTCTCAAGAAAATTAATGAGCTCACTGGTATTAAAGAATCTGACACTGGCCTGGCCCCACCAGCACTCTGG
GATTTGGCTGCAGATAAGCAGACACTCCAGAGTGAACAGCCTTTACAGGTTGCCAGGTGTACAAAGATAATCAAT
GCTGATTCCGGAGGACCCAAAATACATTATCAACGTAAAGCAGTTTGCCAAGTTTGTGGTGGACCTTAGTGATCAG
GTGGCACCTACTGACATTGAAGAAGGGATGAGAGTGGGCGTGGATAGAAATAAATATCAAATTCACATTCCATTG
CCTCCTAAGATTGACCCAACAGTTACCATGATGCAGGTGGAAGAGAAACCTGATGTCACATACAGTGATGTTGGT
GGCTGTAAGGAACAGATTGAGAACTGCGAGAAGTAGTTGAAACCCCATTTACTTCATCCAGAGAGGTTTGTGAAC
CTTGGCATTGAGCCTCCCAAGGGCGTGCTGCTCTTTGGTCCACCCGGTACAGGCAAGACACTCTGTGCGCGGGCA
GTTGCTAATCGGACTGATGCGTGCTTCATTTCGAGTTATTGGATCTGAGCTTGTACAGAAATACGTCGGTGAGGGG
GCTCGAATGGTTTCGTGAACCTCTTTGAAATGGCCAGAACAAAAAAGCCTGCCTTATCTTCTTTGATGAAATTGAT
GCTATTGGAGGGGCTCGTTTTGATGATGGTGCTGGAGGTGACAATGAAGTGCAGAGAACAATGTTGGAACCTGATC
AATCAGCTTGATGGTTTTGATCCTCGAGGCAATATTAAAGTGCTGATGGCCACTAACAGACCTGATACTTTGGAT
CCAGCACTGATGAGGCCAGGGAGATTGGATAGAAAAATTGAATTTAGCTTGCCCGATCTAGAGGGTCGGACCCAC
ATATTTAAGATTACGCTCGTTCAATGAGTGTTGAAAGAGATATCAGATTTGAACTGTTAGCACGACTGTGTCCA
AATAGCACTGGTGCTGAGATTAGAAGCGTCTGCACAGAGGCTGGTATGTTTGCCATCAGAGCACGGCGAAAAATT
GCTACCGAGAAGGATTTCTTGGAAGCTGTAAATAAGGTCATTAAAGTCTTATGCCAAATTCAGTGCTACTCCTCGT
TACATGACATAACACTGAACCCCTGAAGGCTTTCAAGTGAAAACCTTTAAATTGGAATCCTAACCTTATATAGACTT
GTTAATAACCAATTCATAAACAATAAATGGCTTCACTTTAGAGCACAATGG

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FIGURE 145

MPDYLGADQRKTKEDKDDKPIRALDEGDIALLKTYGQSTYSRQIKQVEDDIQQLLKKINELTGIKESDTGLAPP
ALWDLAADKQTLQSEQPLQVARCTKIINADSEDPKYIINVKQFAKFVVDLSQVAPTDIEEGMRVGVDNRNKYQIH
IPLPPKIDPTVTMMQVEEKPDVTYSVGGCKEQIEKLREVVETPLLHPERFVNLGIEPPKGVLLFGPPGTGKTL
ARAVANRTDACFIRVIGSELVQKYVGEARMVRELFEMARTKKACLIFDEIDAIGGARFDDGAGGDNEVQRTML
ELINQLDGFDPGRNIKVLMATNRPDTLDPALMRPGRDLDRKIEFSLPDLEGRTHIFKIHARMSVERDIRFELLAR
LCPNSTGAEIRSVCTEAGMFAIRARRKIMATEKDFLEAVNKVIKSYAKFSATPRYMTYN

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FIGURE 146

ATCCGTGTCCTTGCGGTGCTGGGCAGCAGACCGTCCAAACCGACACGCGTGGTATCCTCGCGGTGTCCGGCAAGA
GACTACCAAGACAGACGCTATGACTGAGGCTGATGTGAATCCAAAGGCCTATCCCCTTGCCGATGCCCACCTCAC
CAAGAAGCTACTGGACCTCGTTTCAGCAGTCATGTAACATAAGCAGCTTCGGAAAGGAGCCAATGAGGCCACCAA
AACCCCTCAACAGGGGCATCTCTGAGTTCATCGTGATGGCTGCAGACGCCGAGCCACTGGAGATCATTCTGCACCT
GCCGCTGCTGTGTGAAGACAAGAATGTGCCCTACGTGTTTGTGCGCTCCAAGCAGGCCCTGGGGAGAGCCTGTGG
GGTCTCCAGGCCTGTCATCGCCTGTTCTGTCACCATCAAAGAAGGCTCGCAGCTGAAACAGCAGATCCAATCCAT
TCAGCAGTCCATTGAAAGGCTCTTAGTCTTAAACCTGTGGCCTCTGCCACGTGCTCCCTGCCAGCTTCCCCCTGA
GGTTGTGTATCATATTATCTGTGTTAGCATGTAGTATTTTCAGCTACTCTCTATTGTTATAAAATGTAGTACTAA
ATCTGGTTTCTGGATTTTTGTGTTGTTTTGTTCGTGTTTACAGGGTTGCTATCCCCCTTCCTTTCCCTCCCTCCC
TCTGCCATCCTTCATCCTTTTATCCTCCCTTTTTGGAACAAGTGTTTCAGAGCAGACAGAAGCAGGGTGGTGGCAC
CGTTGAAAGGCAGAAAGAGCCAGGAGAAAGCTGATGGAGCCAGGACAGAGATCTGGTTCCAGCTTTCAGCCACTA
GCTTCCTGTTGTGTGCGGGGTGTGGTGGAATTAAACAGCATTCAATTGTGTGTCCCTGTGCCTGGCACACAGAATC
ATTCATACGTGTTCAAGTGATCAAGGGGTTTCATTTGCTCTTGGGGGATTAGGTATCATTGAGGAGGAAGCATG
TGTTCTGTGAGGTTGTTTCGGCTATGTCCAAGTGTCGTTTACTAATGTACCCCTGCTGTTTGCTTTTGTTAATGTG
ATGTTGATGTTCTCCCCCTACCCACAACCATGCCCTTGAGGGTAGCAGGGCAGCAGCATACCAAAGAGATGTGCT
GCAGGACTCCGGAGGCAGCCTGGGTGGGTGAGCCATGGGGCAGTTGACCTGGGTCTTGAAAGAGTCGGGAGTGAC
AAGCTCAGAGAGCATGAAGTATGCTGGCATGAAGGATTCCAGGAAAGATCATGGAGACCTGGCTGGTAGCTGTAA
CAGAGATGGTGGAGTCCAAGGAAACAGCCTGTCTCTGGTGAATGGGACTTCTTTGGTGGACACTTGGCACCAGC
TCTGAGAGCCCTTCCCCTGTGTCCTGCCACCATGTGGGTGAGATGTACTCTCTGTACATGAGGAGAGTGCTAGT
TCATGTGTTCTCCATTCTTGTGAGCATCCTAATAAATCTGTTCCATTTTG

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FIGURE 147

MTEADVNP KAYPLAD AHLTKKLLDLVQQSCNYKQLRK GANEATKT LN RGISEFIVMAADAEPL EII LHLPLL CED
KNVPYVFVRSKQALGRACGVS RPVIACSVTIKEGSQLKQQIQSIQQS IERLLV

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FIGURE 148

CGCGCGCGCGCAGCGCGCGCGACGGCGACATGGAGAGCGGGCCCTACGGCGCGGCCAAGGCGGGCGGCTCCTTCG
AUCTGCGGGCGCTTCCTGACGCAGCCGAGGTGGTGGCGCGCGCCGTGTGCTTGGTCTTCGCCTTGATCGTGTCT
CGTCATCTATGGTGAGGGCTACAGCAATGCCACGAGTCTAAGCAGATGTACTGCGTGTTC AACGCAACGAGG
ATGCCTGCCGCTATGGCAGTGCCATCGGGGTGCTGGCCTTCCTGGCCTCGGCCTTCTTCTTGGTGGTCGACGCGT
ATTCCTCCCCAGATCAGCAACGCCACTGACCGCAAGTACCTGGTCATTGGTGACCTGCTCTTCTCAGCTCTCTGGA
CTCTGTGGTTTGTGGTTTCTGCTTCCTCACCAACCAGTGGGCAGTCACCAACCCGAAGGACGTGCTGGTGG
GACTCTGTGAGGGCAGCCATCACCTTCAGCTTCTTTTCCATCTTCTCCTGGGGTGTGCTGGCCTCCCTGG
TACAGCGCTACAAGGCTGGCGTGGACGACTTCATCCAGAATTACGTTGACCCCACTCCGGACCCCAACACTG
TACGCTCCTACCCAGGTGCATCTGTGGACAACCTACCAACAGCCACCCTTCACCCAGAACGCGGAGACCACCG
CTACAGCCGCCCCCTGTGTACTGAGCGCGGTTAGCGTGGGAAGGGGGACAGAGAGGGCCCTCCCCCTCTG
TGGACTTTCCCATGAGCCTCCTGGAAGTCCAGCCCTCTCTTTCACCTGTTCCATCCTGTGCAGCTGACAC
CTAAGGAGCCTCATAGCCTGGCGGGGGCTGGCAGAGCCACACCCCAAGTGCCTGTGCCAGAGGGCTTCAG
TGGCGCTCACTCCTCCAGGGCATTTTTAGGAAAGGGTTTTAGCTAGTGTTTTTCTCGCTTTTAATGACCTC
TCCCGCTGCAGTGGCTAGAAGCCAGCAGGTGCCCATGTGCTACTGACAAGTGCCTCAGCTTCCCCCGGGCC
GGGICAGGCCGTGGGAGCCGCTATTATCTGCGTTCTCTGCCAAAGACTCGTGGGGGCCATCACACCTGCCCTGTG
CAGCGGAGCCGGACCAGGCTCTTGTGTCTCACTCAGGTTTGCTTCCCTGTGCCACTGCTGTATGATCTGGGG
GCCACCACCTGTGCCGGTGGCCTCTGGGCTGCCTCCCGTGGTGTGAGGGCGGGGCTGGTGTCTCATGGCACTTC
TCCTTGCTCCCACCCCTGGCAGCAGGGAAGGGCTTGCCTGACAACACCCAGCTTTATGTAAATATTCTGCAGTT
GTTACTTAGGAAGCCTGGGGAGGGCAGGGGTGCCCATGGCTCCCAGACTCTGTCTGTGCCGAGTGATTATAAA
ATCGTGGGGGAGATGCCCCGCTGGGATGCTGTTTGGAGACGGAATAAATGTTTTCTCATTAGTA

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FIGURE 149

MESGAYGAAKAGGSFDLRRFLTQPQVVARAVCLVFALIVFSCIYGEYSNAHESKQMYCVFNRNEDACRYGSAIG
VLAFLASAFFLVVDAYFPQISNATDRKYLVIIGDLLFSALWTFLLWFVGFCLTNQWAVTNPKDVLVGADSVRAAIT
FSFFSIFSWGVLASLAYQRYKAGVDDFIQNYVDPTPDNPNTAYASYPGASVDNYQQPPFTQNAETTEGYQPPPVY

GCCACACGGTCTTTGAGCTGAGTCGAGGTGGACCCCTTTGAACGCAGTCGCCCTACAGCCGCTGATTCCCCCCGCA
 TCGCCTCCCGTGGAAGCCCAGGCCCGCTTCGCAGCTTTCTCCCTTTGTCTCATAACCATGTCCACCAACGAGAAT
 GCTAATACACCAGCTGCCCGTCTTCACAGATTCAAGAACAAGGGAAAAGACAGTACAGAAATGAGGCGTCGCAGA
 ATAGAGGTCAATGTGGAGCTGAGGAAAGCTAAGAAGGATGACCAGATGCTGAAGAGGAGAAATGTAAGCTCATT
 CCTGATGATGCTACTTTCTCCGCTGCAGGAAAACCGCAACAACCAGGGCACTGTAAATTGGTCTGTTGATGACATT
 GTCAAAGGCATAAATAGCAGCAATGTGGAAAATCAGCTCCAAGCTACTCAAGCTGCCAGGAACTACTTTCCAGA
 GAAAAACAGCCCCCATAGACAACATAATCCGGGCTGGTTTGATTCCGAAATTTGTGTCCTTCTTGGGCAGAACT
 GATTGTAGTCCCATTCAGTTTGAATCTGCTTGGGCACTCACTAACATTGCTTCTGGGACATCAGAACAACCAAG
 GCTGTGGTAGATGGAGGTGCCATCCCAGCATTCAATTTCTCTGTTGGCATCTCCCCATGCTCACATCAGTGAACAA
 GCTGTCTGGGCTCTAGGAAACATTGCAGGTGATGGCTCAGTGTTCGGAGACTTGGTTATTAAGTACGGTGCAGTT
 GACCCACTGTTGGCTCTCCTTGCAGTTCCTGATATGTCATCTTTAGCATGTGGCTACTTACGTAATCTTACCTGG
 ACACCTTTCTAATCTTTGCCGCAACAAGAATCCTGCACCCCCGATAGATGCTGTTGAGCAGATTCTTCTACCTTA
 GTTCGGCTCCTGCATCATGATGATCCAGAAGTGTTAGCAGATACCTGCTGGGCTATTTCTACCTTACTGATGGT
 CCAAATGAACGAATTGGCATGGTGGTGAAAACAGGAGTTGTGCCCAACTTGTGAAGCTTCTAGGAGCTTCTGAA
 TTGCCAATTGTGACTCCTGCCCTAAGAGCCATAGGGAATATTGTCACTGGTACAGATGAACAGACTCAGGTGTG
 ATTGATGCAGGAGCACTCGCCGTCTTTCCCAGCCTGCTCACCAACCCCCAAAATAACATTCAGAAGGAAGCTACG
 TGGACAATGTCAAACATCACAGCCGGCCGCCAGGACCAGATACAGCAAGTTGTGAATCATGGATTAGTCCCATTC
 CTTGTCAGTGTTCTCTCTAAGGCAGATTTTAAGACACAAAAGGAAGCTGTGTGGGCCGTGACCAACTATACCAGT
 GGTGGAACAGTTGAACAGATTGTGTACCTTGTTCACTGTGGCATAATAGAACCGTTGATGAACCTCTTAACCTGCA
 AAAGATACCAAGATTATTCTGGTTATCCTGGATGCCATTTCAAATATCTTTCAGGCTGCTGAGAAACTAGGTGAA
 ACTGAGAAACTTAGTATAATGATTGAAGAATGTGGAGGCTTAGACAAAATTGAAGCTCTACAAAACCATGAAAAT
 GAGTCTGTGTATAAGGCTTCGTTAAGCTTAATTGAGAAGTATTTCTCTGTAGAGGAAGAGGAAGATCAAAACGTT
 GTACCAGAAACTACCTCTGAAGGCTACACTTTCCAAGTTTCAGGATGGGGCTCCTGGGACCTTTAACTTTTAGATC
 ATGTAGCTGAGACATAAATTTGTTGTGTACTACGTTTGGTATTTTGTCTTATTGTTTCTCTACTAAGAACTCTTT
 CTTAAATGTGGTTTGTACTGTAGCACTTTTACACTGAACTATACTTGAACAGTTCCAAGTGTACATACATA
 TGTATGAAGCTTGTCTCTGACTAGGTTTCTAATTTCTATGTGGAATTTCTATCTTGCAGCATCCTGTAATAA
 ACATTCAAGTCCACCCTTAAAAAAA

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FIGURE 151

MSTNENANTPAARLHRFKNKGKDDSTEMRRRRRIEVNVELRKAKKDDQMLKRRNVSSFPDDATSPLQENRNNQGTVN
WSVDDIVKGINSSNVENQLQATQAARKLLSREKQPPIDNIIRAGLIPKFVSFLGRITDCSPIQFESAWALTNIASG
TSEQTKAVVDGGAIPAFISLLASPHAHISEQAVWALGNIAGDGSVFRDLVIKYGAVDPLLALLAVPDMSSLACGY
LRNLTWTLNLCRNKNPAPPIDAVEQILPTLVRLHHDDPEVLADTCWAI SYLTDGPNERIGMVVKTGVVFPQLVK
LLGASELP I VTPALRAIGNIVTGTDEQTQVVIDAGALAVFPSLLTNPKNITQKEATWTMSNITAGRQDQIQQVVN
HGLVPFLVSVLSKADFKTQKEAVWAVTNYTSGGTVEQIVYLVHCGIIEPLMNLLTAKDTKIILVILDAISNIFQA
AEKLGETEKL SIMIEECGLDKIEALQNHENESVYKASLSLIEKYFSVEEEDQNVVPETTSEGYTFQVQDGP
TFNF

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FIGURE 152

TGTCGGGGACGGTAACCGGGACCCGTGCTCTGCTCCTGTCGCCTTCGCCTCCTGAATCCCTAGCCATATGCGTGA
GTGCATCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGCCTGCTGGGAGCTCTACTGCCTGGAACA
CGGCATCCAGCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGACTCCTTCAACACCTTCTT
CAGTGAGACGGGCGCTGGCAAGCACGTGCCCCGGGCTGTGTTTGTAGACTTGGAACCCACAGTCATTGATGAAGT
TCGCACTGGCACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCACAGGCAAGGAAGATGCTGCCAATAACTA
TGCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTTGTGTTGGACCGAATTGCAAGCTGGCTGACCA
GTGCACCCGTCTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAAGTGGTTCTGGGTTACCTCCCTGCT
CATGGAACGCCTGTGAGTTGATTATGGCAAGAAATCCAAGCTGGAGTTCTCCATTTACCCGGCACCCCAGGTTTC
CACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCTGGAGCACTCTGATTGTGCCTTCAT
GGTAGACAATGAGGCCATCTATGACATCTGTCGTAGAAACCTCGATATCGAGCGCCCCAACCTACACTAACCTTAA
CCGCCTTATTAGCCAGATTGTGTCTCCATCACTGCTTCCCTGAGATTTGATGGAGCCCTGAATGTTGACCTGAC
AGAATTCCAGACCAACCTGGTCCCCTACCCCGCATCCACTTCCCTCTGGCCACATATGCCCTGTGCTCTCTGC
TGAGAAAGCCTACCATGAACAGCTTTCTGTAGCAGACATCACCAATGCTTGCTTTGAGCCAGCCAACCAGATGGT
GAAATGTGACCCTGGCCATGGTAAATACATGGCTTGCTGCCTGTTGTACCGTGGTGACGTGGTTCCCAAAGATGT
CAATGCTGCCATTGCCACCATCAAAACCAAGCGCACGATCCAGTTTGTGGATTGGTGCCCCACTGGCTTCAAGGT
TGGCATCAACTACCAGCCTCCCACTGTGGTGCCTGGTGGAGACCTGGCCAAGGTACAGAGAGCTGTGTGCATGCT
GAGCAACACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCCAAGCGTGC
CTTTGTTCACTGGTACGTGGGTGAGGGGATGGAGGAAGGCGAGTTTTGAGAGGCCCGTGAAGATATGGCTGCCCT
TGAGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTTGAAGGAGAGGGTGAGGAAGAAGGAGAGGAATACTAATT
ATCCATTCTTTTGGCCCTGCAGCATGTGCTGCTCCAGAATTTGAGCTTCAGCTTAAGTACAGATGTTAAAGC
TTTCTGGTTAGATTGTTTTCACTTGGTGATCATGCTTTTCCATGTGTACCTGTAATATTTTCCATCATATCTC
AAAGTAAAGTCATTAACATCA

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FIGURE 153

MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDLEPTVI
DEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLADQCTRLQGFLVFHSFGGGTGSFT
SLLMERLSVDYGKKSLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAIYDICRRNLDIERPTYT
NLNRLISQIVSSITASLRFDGALNVDLTEFQTNLVPYPRIHFPLATYAPVISAEKAYHEQLSVADITNACFEPAN
QMVKCDPGHGKYMCCLLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTGFKVGINYQPPTVVPPGGDLAKVQRAV
CMLSNTTAIAEAWARLDHKFDLMYAKRAVFVHWYVGEGMEEGEFSEAREDMAALEKDYEYVGVDSVEGEGEEEGEE
Y

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FIGURE 154A

CGACGCACAGGCATTCCCCGCGCCCCCTCCAGCCCTCGCCGCCCTCGCCACCGCTCCCGGCCGCGCGCTCCGGTA
CACACAGGATCCCTGCTGGGCACCAACAGCTCCACCATGGGGCTGGCCTGGGGACTAGGCGTCTGTTCCTGATG
CATGTGTGTGGACCAACCGCATTCCAGAGTCTGGCGGAGACAACAGCGTGTITGACATCTTTGAACTCACCGGG
GCCGCCCGCAAGGGGTCTGGGCGCCGACTGGTGAAGGGCCCCGACCCTTCCAGCCCAGCTTTCCGCATCGAGGAT
TAACCTGATCCCCCTGTGCCTGATGACAAGTTCCAAGACCTGGTGGATGCTGTGCGGGCAGAAAAGGGTTTC
TTCTGGCATCCCTGAGGCAGATGAAGAAGACCCGGGGCAGCCTGCTGGCCCTGGAGCGGAAAGACCACTCT
CAGGTCTTCAGCGTGGTGTCCAATGGCAAGGCGGGCACCCTGGACCTCAGCCTGACCGTCCAAGGAAAGCAG
AAGTGGTGTCTGTGGAAGAAGCTCTCCTGGCAACCGGCCAGTGGAAAGAGCATACCCTGTTTGTGCAGGAAGAC
AGGCCAGCTGTACATCGACTGTGAAAAGATGGAGAATGCTGAGTTGGACGTCCCCATCCAAAGCGTCTTCACC
AGACCTGGCCAGCATCGCCAGACTCCGCATCGCAAAGGGGGGCGTCAATGACAATTTCCAGGGGGTGTGTCAG
GTGAGGTTTGTCTTTGGAACCACACCAGAAGACATCCTCAGGAACAAAGGCTGCTCCAGCTCTACCAGTGTCT
CTCACCTTGACAACAACGTGGTGAATGGTTCCAGCCCTGCCATCCGCACTAATACTACATTGGCCACAAGACA
AGGACTTGCAAGCCATCTGCGGCATCTCCTGTGATGAGCTGTCCAGCATGGTCTTGGAACTCAGGGGGCTGCGC
CATTGTGACCACGCTGCAGGACAGCATCCGCAAAGTGACTGAAGAGAACAAGAGTTGGCCAAATGAGCTGAGG
CGCCTCCCTATGCTATCACAACGGAGTTTCACTACAGAAATAACGAGGAATGGACTGTTGATAGCTGCACTGAG
TGACTGTGCAAGCTCAGTTACCATCTGCAAAAAGGTGTCTGCCCCATCATGCCCTGCTCCAATGCCACAGTT
CCTGATGGAGAATGCTGTCTCGCTGTTGGCCAGCGACTCTGCGGACGATGGCTGGTCTCCATGGTCCGAGTGG
ACCTCCTGTTTACGAGCTGTGGCAATGGAATTCAGCAGCGCGGCCGCTCCTGCGATAGCCTCAACAACCGATGT
GAGGGCTCCTCGGTCCAGACACGGACCTGCCACATTCAAGAGTGTGACAAAAGATTTAAACAGGATGGTGGCTGG
AGCCACTGGTCCCCGTGGTCACTTGTCTGTGACATGTGGTGTGATGATCACAAGGATCCGGCTCTGCAAC
TCTCCAGCCCCCAGATGAATGGGAAACCCTGTGAAGGCGAAGCGCGGGAGACCAAAGCCTGCAAGAAAGACGCC
TGCCCCATCAATGGAGGCTGGGGTCTTGGTCAACATGGGACATCTGTTCTGTACCTGTGGAGGAGGGGTACAG
AAACGTAGTCGTCTCTGCAACAACCCCGCACCCAGTTTGGAGGCAAGGACTGCGTTGGTGTATGTAACAGAAAAC
CAGATCTGCAACAAGCAGGACTGTCCAATTGATGGATGCCTGTCCAATCCCTGCTTTGCCGGCGTGAAGTGTACT
AGCTACCCTGATGGCAGCTGGAAATGTGGTGTCTGCCCCCTGGTTACAGTGGAAATGGCATCCAGTGCACAGAT
GTTGATGAGTGCAAGAAGTGCTGATGCCTGCTTCAACCACAATGGAGAGCACCAGGTGTGAGAACACGGACCCC
GGCTACAAGTGCCTGCCCTGCCCCCACGCTTCAACGGCTCAGACCCCTTCGGCCAGGGTGTGCAACATGCCACG
GCCAACAACAGGTGTGCAAGCCCCGTAACCCCTGCACGGATGGGACCCACGACTGCAACAAGAACGCCAAGTGC
AACTACCTGGGCCACTATAGCGACCCCATGTACCGCTGCGAGTGCAAGCCTGGCTACGCTGGCAATGGCATCATC
TGCGGGGAGGACACAGACCTGGATGGCTGGCCCAATGAGAACCTGGTGTGCGTGGCCAATGCGACTTACCACTGC
AAAAAGGATAATTGCCCCAACCTTCCCAACTCAGGGCAGGAAGACTATGACAAGGATGGAATTGGTGTATGCCTGT
GATGATGACGATGACAATGATAAAATTCAGATGACAGGGACAACGTCCATTCCATTACAACCCAGCTCAGTAT
GACTATGACAGAGATGATGTGGGAGACCGCTGTGACAACGTCCCTACAACCACAACCCAGATCAGGCAGACACA
GACAACAATGGGGAAGGAGACGCCTGTGCTGCAGACATTGATGGAGACGGTATCCTCAATGAACGGGACAACCTGC
CAGTACGTCTACAATGTGGACCAGAGAGACACTGATATGGATGGGGTTGGAGATCAGTGTGACAATTGCCCTTG
GAACACAATCCGGATCAGCTGGACTCTGACTCAGACCGCATTGGAGATACCTGTGACAACAATCAGGATATTGAT
GAAGATGGCCACCAGAACAATCTGGACAACGTCCCTATGTGCCCAATGCCAACCAGGCTGACCATGACAAAAGAT
GGCAAGGGAGATGCCTGTGACCACGATGATGACAACGATGGCATTCTGATGACAAGGACAACCTGCAGACTCGTG
CCCAATCCCGACCAGAAGGACTCTGACGGCGATGGTTCGAGGTGATGCCTGCAAAGATGATTTTGACCATGACAGT
GTGCCAGACATCGATGACATCTGTCTGAGAATGTTGACATCAGTGAGACCGATTTCCGCCGATTCCAGATGATT
CCTCTGGACCCCAAAGGGACATCCCAAAATGACCCTAAGTGGGTTGTACGCCATCAGGGTAAGAAGTCTCCAG
ACTGTCAACTGTGATCCTGGACTCGCTGTAGGTTATGATGAGTTTAATGCTGTGGACTTCAGTGGCACCTTCTTC
ATCAACACCGAAAGGGACGATGACTATGCTGGATTGTCTTTGGCTACCAGTCCAGCAGCCGCTTTTATGTTGTG
ATGTGGAAGCAAGTCACCCAGTCTACTGGGACACCAACCCACGAGGGCTCAGGGATACTCGGGCCTTTCTGTG
AAAGTTGTAACTCCACCACAGGGCCTGGCGAGCACCTGCGGAACGCCCTGTGGCACACAGGAAACACCCCTGGC
CAGGTGCGCACCTGTGGCATGACCTCGTCACATAGGCTGGAAAGATTTACCGCCTACAGATGGCGTCTCAGC
CACAGGCCAAAGACGGGTTTCATTAGAGTGGTGTATGAAGGGAAGAAAATCATGGCTGACTCAGGACCCATC
TATGATAAAACCTATGCTGGTGGTAGACTAGGGTTGTTTGTCTTCTCAAGAAATGGTGTCTTCTCTGACCTG

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FIGURE 154B

AAATACGAATGTAGAGATCCCTAATCATCAAATTGTTGATTGAAAGACTGATCATAAACCAATGCTGGTATTGCA
CCTTCTGGAACATATGGGCTTGAGAAAACCCCCAGGATCACTTCTCCTTGGCTTCCTTCTTTCTGTGCTTGCAATC
AGTGTGGACTCCTAGAACGTGCGACCTGCCTCAAGAAAATGCAGTTTTCAAAAACAGACTCATCAGCATTAGCC
TCCAATGAATAAGACATCTTCCAAGCATATAAACAATTGCTTTGGTTTCCTTTTGAAAAAGCATCTACTTGCTTC
AGTTGGGAAGGTGCCCCATTCCACTCTGCCTTTGTACAGAGCAGGGTGCTATTGTGAGGCCATCTCTGAGCAGTG
GACTCAAAAGCATTTTCAGGCATGTGAGAGAAGGGAGGACTCACTAGAATTAGCAAACAAAACCACCCTGACATC
CTCCTTCAGGAACACGGGGAGCAGAGGCCAAAGCACTAAGGGGAGGGCGCATACCCGAGACGATTGTATGAAGAA
AATATGGAGGAACGTGTTACATGTTCCGTACTAAGTCATTTTCAGGGGATTGAAAGACTATTGCTGGATTTCATGA
TGCTGACTGGCGTTAGCTGATTAACCCATGTAAATAGGCACTTAAATAGAAGCAGGAAAGGGAGACAAAGACTGG
CTTCTGGACTTCCTCCCTGATCCCCACCCTTACTCATCACCTTGCAGTGGCCAGAATTAGGGAATCAGAATCAAA
CCAGTGTAAGGCAGTGCTGGCTGCCATTGCCTGGTCACATTGAAATTGGTGGCTTCATTCTAGATGTAGCTTGTG
CAGATGTAGCAGGAAAATAGGAAAACCTACCATCTCAGTGAGCACCAGCTGCCTCCCAAAGGAGGGGCAGCCGTG
CTTATATTTTTATGGTTACAATGGCACAAAATTATTATCAACCTAACTAAAACATTCCTTTTCTCTTTTTTCCGT
AATTACTAGGTAGTTTTCTAATTCTCTCTTTTGGAAAGTATGATTTTTTAAAGTCTTTACGATGTAAAATATTTA
TTTTTTACTTATTCTGGAAGATCTGGCTGAAGGATTATTCATGGAACAGGAAGAAGCGTAAAGACTATCCATGTC
ATCTTTGTTGAGAGTCTTCGTGACTGTAAGATTGTAAATACAGATTATTTATTAACCTCTGTTCTGCCTGGAAATT
TAGGCTTCATACGGAAAGTGTGTTGAGAGCAAGTAGTTGACATTTATCAGCAAATCTCTTGCAAGAACAGCACAAAG
GAAATCAGTCTAATAAGCTGCTCTGCCCCCTGTGCTCAGAGTGGATGTTATGGGATTCCTTTTTTCTCTGTTTT
ATCTTTTCAAGTGAATTAGTTGGTTATCCATTTGCAAATGTTTTAAATTGCAAAGAAAGCCATGAGGTCTTCAA
TACTGTTTTACCCCATCCCTTGTGCATATTTCCAGGGAGAAGGAAAGCATATACACTTTTTTCTTTTCATTTTTCC
AAAAGAGAAAAAATGACAAAAGGTGAAACTTACATACAAATATTACCTCATTGTTGTGTGACTGAGTAAAGAA
TTTTTGATCAAGCGGAAAGAGTTTAAAGTGTCTAACAACTTAAAGCTACTGTAGTACCTAAAAAGTCAGTGTTG
TACATAGCATAAAACTCTGCAGAGAAGTATCCCAATAAGGAAATAGCATTGAAATGTTAAATACAATTTCTGA
AAGTTATGTTTTTTTTCTATCATCTGGTATACCATTGCTTTATTTTTATAAATTATTTCTCATTGCCATTGGAA
TAGAATATTCAGATTGTGTAGATATGCTATTTAAATAATTTATCAGGAAATACTGCCTGTAGAGTTAGTATTTCT
ATTTTTATATAATGTTTGCACACTGAATTGAAGAATTGTTGGTTTTTTCTTTTTTTTGTTTTTTTTTTTTTTTT
TTTTTTTTTGCTTTTGACCTCCCATTTTACTATTTGCCAATACCTTTTTCTAGGAATGTGCTTTTTTTTGTACA
CATTTTTATCCATTTTACATTCTAAAGCAGTGTAAGTTGTATATTACTGTTTCTTATGTACAAGGAACAACAATA
AATCATATGGAAATTTATATTT

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FIGURE 155

MGLAWGLGVLFMLHVC GTNRIPESGGDNSVFDIFELTGAARKGSGRRLVKGPD PSSPAFRIEDANLIPPVPDDKF
QDLVDAVRAEKGFLLLASLRQM KKT RGTLLALERKDHSGQVFSVVSNGKAGTLDLSLTVQ GKQHVVSV EEEALLAT
GQWKSITL FVQEDRAQLYIDCEKMENAELDVPIQSVFTRDLAS IARLRIAKGGVNDNFQGV LQNVRFVFGTTPED
ILRNKGCSSTSVLLTLDNNVVNGSSPAIR TNYIGHKTKDLQAICGISCELSMVL ERLRLRTIVTTLQDSIRK
VTEENKELANELRRPPLCYHNGVQYRNNEEWTVDSCTECHCQNSVTICKKVSCPIMP CSNATVPDGECCPRCWPS
DSADDGWSPWSEWTSCSTSCGNGIQQRGRSCDSLNNRCEGSSVQTRTCHI QECDKRFKQDGGWSHWSPWSSCSVT
CGDGVITRIRLCNSPSPQMNGKPCEGEARETKACKKDACPINGGWGPWSPWDICSVTCGGGVQKRSRLC NNPAPQ
FGGKDCVGDVTENQICNKQDCPIDGCLSNPCFAGVKCTSYPDGSWKCGACPPGYSGNGIQCTDVDECKEVPDACF
NHNGEHRCENTDPGYNCLPCPPRFTGSQPFQGV E HATANKQVCKPRNPCTDGT HDCNKNACNYLGHYS DPMYR
CECKPGYAGNGIICGEDTDLDGWP NENLVCVANATYHCKKDNCNLPNSGQEDYDKDGI GDACDDDDNDKIPDD
RDNCPPHYNPAQYDYDRDDVGDRCDNCPYNHNP DQADTDNNGEGDACAADIDGDGILNERDNCQYVYNVDQRDT
MDGVGDQCDNCPLEHNPDQLDSDSDRIGDTC DNNQDIDEDGHQNNLDNCPYVPNANQADHDKDGKG DACDHDDDN
DGIPDDKDNCR LVPNPDQKDSGDGGRGDACKDDFDHDSVPDIDDICPENVDISETDFRRFQMIPLDPKGTSQNDP
NWVVRHQGKELVQTVNCDPGLAVGYDEFNAVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQVTQSYWDT
NPTRAQGYSGLSVKVVNSTTGPG EHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVVM
YEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFS D LKYECRDP

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FIGURE 157

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVGIDIFTGKKYEDICPS
THNMDVPNIKRNDLFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLGKEIEQKYDCGEEILITVLSAMTEEAVALK
AMAK

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FIGURE 158

AGCGAGTCCTTCTTTTCCTGACTGCAGCTCTTTTCATTTTGCCATCCTTCTCCAGCTCCATGATGGTTCTGCAGG
TTTCTGCGGCCCCCGGACAGTGGCTCTGACGGCGTTACTGATGGTGCTGCTCACATCTGTGGTCCAGGGCAGGG
CCTCTCCAGAGAATTACGTGTACCAGGGACGGCAGGAATGCTACGCGTTTAATGGGACACAGCGCTTCTGGAGA
GATACATCTACAACCGGGAGGAGTACGCGCGCTTCGACAGCGACGTGGGGGAGTTCCGGGCGGTGACGGAGCTGG
GGCGGCTGCTGCGGAGTACTGGAACAGCCAGAAGGACATCCTGGAGGAGAAGCGGGCAGTGCCGGACAGGGTAT
GCAGACACAACCTACGAGCTGGACGAGGCCGTGACCTGCAGCGCCGAGTCCAGCCTAAGGTGAACGTTTCCCCCT
CCAAGAAGGGGCCCCCTGCAGCACCACAACCTGCTTGTCTGCCACGTGACAGATTTCTACCCAGGCAGCATTCAAG
TCCGATGGTTCTGAAATGGACAGGAGGAAACAGCTGGGGTCTGTGTCCACCAACCTGATCCGTAATGGAGACTGGA
CCTTCCAGATCCTGGTGATGCTGGAAATGACCCCCCAGCAGGGAGACGTCTACATCTGCCAAGTGGAGCACACCA
GCCTGGACAGTCCTGTCACCGTGGAGTGGAAAGGCACAGTCTGATTCTGCCCAGAGTAAGACATTGACGGGAGCTG
GGGGCTTCGTGCTGGGGCTCATCATCTGTGGAGTGGGCATCTTCATGCACAGGAGGAGCAAGAAAGTTCAACGAG
GATCTGCATAAACAGGGTTCTGACCTCACCGAAAAGACTAATGTGCCTTAGAACAAAGCATTGTGCTGTGTTTTGT
TAACACCTGGTTCCAGGACAGACCCTCAGCTTCCCAAGAGGATACTGCTGCCAAGAAGTTGCTCTGAAGTCAGTT
TCTATCGTTCTGCTCTTTGATTCAAAGCACTGTTTCTCTCACTGGGCCTCCAACCATGTTCCCTTCTTCTTAGCA
CCACAAATAATCAAACCCAACATAAGTGTTTGCTTTCTTTAAAAATATGCATCAAATCGTCTCTCATTACTTT
TCTCTGAGGGTTTTAGTAAACAGTAGGAGTTAATAAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAAGAGAAG
CATCAAAGTGGAGATATGTTAACTATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATT
TCAGTGAGCTGCCCCAAATCAAGTTTAGTGCCCTCATCCATTTATGTCTCAGACCGCTATTCTTAACTATTCAA
TGGTGAGCAGACTGCAAATCTGCCTGATAGGACCCATATTCCCACAGCACTAATTCAACATATATCTTACTGAGA
GCATGTTTTATCATTACCATTAAGAAGTTAAATGAACATCAGAATTTAAATCATAAATATAATCTAATACACTT
T

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FIGURE 159

MMVLQVSAAPRTVALTALLMVLLTSVVQGRATPENYVYQGRQECYAFNGTQRFLERYIYNREEYARFDSVDVGEFR
AVTELGRPAAEYWNSQKDILEEKRAVPDRVCRHNYELDEAVTLQRRVQPKVNVSPSKKGPLQHHNLLVCHVTDFY
FGSIQVRWFLNGQEETAGVVSTNLIRNGDWTFOILVMLEMPQQGDVYICQVEHTSLDSPVTVEWKAQSDSAQSK
TITGAGGFVLGLIICGVGIFMHRRSKKVQRGSA

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FIGURE 160

GGCACGAGGGGGCGGCCGGTGAGGGGGAAGCAAGTCTGGTCTCTGTGATTGAAGAAGTCGGCTCTGGGCTCCAGTG
CGGGAATCACACACATACCTCAGAAATGCCGGGTCTAAGTTGTAGATTTTATCAACACAAATTTCTGAGGTGGAA
GATGTAGTGATGGTGAATGTCAGATCCATTGCTGAAATGGGGGCTTATGTCAGCTTGCTGGAATACAACAACATT
GAAGGCATGATTCTTCTTAGTGAATTATCCAGAAGGCGTATCCGTTCTATCAACAAACTCATCCGAATTGGCAGG
AATGAGTGTGTGGTTGTTCATTAGGGTGGACAAAGAAAAAGGATATATTGATTTGTCAAAAAGAAGAGTTTCTCCA
GAGGAAGCAATCAAATGTGAAGACAAATTCACAAAATCCAAAACGTGTTTATAGCATTCTTCGTTCATGTTGCTGAG
GTGTTAGAATACACCAAGGATGAGCAGCTGGAAAGCCTATTCCAGAGGACTGCCTGGGTCTTTGATGACAAGTAC
AAGAGACCTGGATATGGTGCCTATGATGCATTTAAGCATGCAGTCTCAGACCCATCTATTTTGGATAGTTTAGAT
TTGAATGAAGATGAACGGGAAGTACTCATTAAATAATATTAATAGGCGCTTGACCCACAGGCTGTCAAAATTCTGA
GCAGATATTGAAGTGGCTTGTATGGTTATGAAGGCATTGATGCTGTAAAAGAAGCCCTAAGAGCAGGTTTGAAT
TGTTCTACAGAAAACATGCCCATTAAAGATTAATCTAATAGCTCCTCCTCGGTATGTAATGACTACGACAACCTG
GAGAGAACAGAAGGCCCTTTCTGTCTCAGTCAAGCTATGGCTGTTATCAAAGAGAAGATTGAGGAAAAGAGGGGT
GTGTTCAATGTTCAAATGGAGCCCCAAAGTGGTCACAGATACAGATGAGACTGAACTTGCGAGGCAGATGGAGAGG
CTTGAAAGAGAAAATGCCGAAGTGGATGGAGATGATGATGCAGAAGAAATGGAAGCCAAAGCTGAAGATTAACCTT
TGTGGGAAACAGAGTCCAATTTAAGGAACACAGAGCAGCGCTTCTGGCTGTAAATCCTAGACTTGAAAAGTTTTC
CAGTATTGAAAACCTCAAAGCTGAATATTTTTTATTTCTAAGTATTTAAATGTTCTAACAGATCAGAACATGAAA
TGCCCTCCTAAATGTCAGCTGTTGTACACAGTAGCTCCAACACTTTGAGCATTTTTAAAGGGAGTGGCCTCATT
CACTAGAGACAAATCTTTAAGAATAGTTCTAAAATTGGGCTTGTGATTTCCATTTCTGATGTCTCCAGATTGGCA
CCCCTTTCTAGTTCAATGCCTCACGAGATTTGCCAGGGGCATCCAAGGCAAACAATCCCAATCTTTCTATATAAA
ATGTATTCAAGCAAACATCAAATAAATTTCTGGGATATTTAACTATAGGCTTCTTCTTCTTGTCCAGTTAA
AGCATTTTAATACTAAGACCCTAATTTCTTTTATCTTTATTTTAGTCTTGATGTGGAACCTGTAGGAGCAGGTGAAT
AAAGGATCTCTATAACAGATCCTTTCAAAGAAGAGTTTTAGAGAAAATAAATTTAACTTTAACCACAGTGAAAG
TTGACCCTTAGCGGGACAAAGCCTTAAATGCATTGAAAGAATTAGATCGGTTCTGTGCCTTTTATCTATTTGAG
ATTGATGACAACCTGTGTGAGAGAATTTATCACACCACGTCCTTATTGGAATAATAAGCTACTTGCCTTGAGTTT
ATAATTCAGGGTGGTAAAGTATGTTTTTAAATTTTAAAAAGCAGCTGCATTTTTTATTTAGTTGGAATATCACCC
AATTTTTTATTTTTATTGCTATTAAATATCCACTAGATGCCACCTAGAGCTCCAGTTCCTTTATAACAAAACAGG
GATCTGTTTGAACACTTACTGTTGTTTTTTTTTTTTTACATGTTTCCATCATTCTGTCTTTAAGAATAATTTCG
TACATAATAAGTTTCATAGGTAACACATTATATTCTCTTATGATACTTGAGGTACCAGTTGTATTTAATTTTATT
CATTATCCCTAGATAGCTATTAAGATACTTAGATTAGACCTAACCCACCATAGTCAATCCAAGACTAGACTACTC
AATATTAAAGGGTCTGGAAAATAGAAGAGTGTGTTGGGCAGGTAGTTTGTACCATTTATGAAGGTTTGTTCCTTT
GTTAAATTTAGCAGCCTGTACTAGCTTTTGAAATCCAGAAGTTTTAACTTCCAGTGGCTGGTTTCTGAGAGAGTG
CCATGATTGCTAGCCAGCATTCCATATTGGGAATATGTAGAGGAGAACCCTGGATGTACTTAAGAGTGGCATATAA
TTTTCACTTCTGTCTGTTGAGGCAAAAAAAAAAACAAGTTTAGAAAGCTGGCAACATGAAGAATGCATTCAAATA
TAACAGGTGCTTCTTTGTTGTACGCAGAGGAATTTTTCTTTTGATTTTGTGTTACTGAAATTTGTTATACTTCAA
AAGCCATAACTTGAAAAATACTGGTGGCGTCGATGGTGAGTATTTTTATCCACGTGGGCCTTTTGCTCAGTTC
CATGGCAATTTTGTAATTGACCCTAGCCAGAGAATAGATCAGTATTTCACTGATACCACGAGGAAAAGAACAAA
CAAACTTAAAAGTATTCATACACCTTGCTAACCTAAAAGACAGCAGGGACAAGATACATATGAGGACAAGGTAT
ACACCCAGTTCTGAATAACTTGAAGAACAGGCTTGGCAAAGAAGTAAGTTTATCCAAATCTTGAATTTCTGCCAG
GCATGGTAGCTCATGCCTGTAACCTGGCACCTAAGGGGCCAAGGCAGGAGGATCACTTGAGGCCAGTGAGCTGT
GATCACTCCAGTGCACCTCGAGCCTGGGTGACAGGGCAAGACCCTGTCTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 161

MPGLSCRFYQHKFPEVEDVVMVNVRSIAEMGAYVSLLEYNNIEGMILLSELSRRRIRSINKLIRIGRNECVVVIR
VDKEKGYIDLSKRRVSPEEAIKCEDKFTKSKTVYSILRHVAEVLEYTKDEQLES LFQRTAWVFDDKYKRPGYGAY
DAFKHAVSDPSILDSDLNEDEREVLINNINRRLTPQAVKIRADIEVACYGYEGIDAVKEALRAGLNCSTENMPI
KINLIAPPRYVMTTTLERTEGLSVLSQAMAVIKEKIEEKRGVFNVMPEPKVVTDTDETELARQMERLERENAEV
DGDDAEEMEAKAED

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FIGURE 162

AGGTCCGGCTTACCGTCGTTTACGACAGTGTGAGGATCGCGGGCTTGCTTTCCGGTAGCGTGGGCTGACGCCTCG .
CTCAATTTCTCACAGGGCTGCGCAGGTTTCCCCCGTCTGCGAATGGACCACTGGAGGGGTTCAAAGGTTTCGCGTC
CCAGTACGGGAATGAGCCTCTTTGATCTCTTCCGGGGCTTTTTTCGGCTTTCCTGGACCTCGGAGCCACAGAGATC
CCTTTTTTGGAGGGATGACTCGAGATGAAGATGATGATGAGGAAGAAGAAGAAGAGGGGGCTCATGGGGCCGTG
GGAACCCAAGGTTCCATAGTCTCAGCACCCCCCTGAGGAATTTGGCTTCGGCTTCAGCTTCAGCCCAGGAGGAG
GGATACGTTTTCCACGATAACTTCGGCTTTGATGACCTAGTACGAGATTTCAATAGCATCTTCAGCGATATGGGGG
CCTGGACCTTGCCTTCCCATCCTCCTGAACTTCCAGGTCCTGAGTCAGAGACACCTGGTGAGAGACTACGGGAGG
GACAGACACTTCGGGACTCAATGCTTAAGTATCCAGATAGTCACCAGCCCAGGATCTTTGGGGGGTCTTGGAGA
GTGATGCAAGAAGTGAATCCCCCAACCAGCACCAGACTGGGGCTCCCAGAGGCCATTTCATAGGTTTGATGATG
TATGGCCTATGGACCCCCATCCTAGAACCAGAGAGGACAATGATCTTGATTCCCAGGTTTCCCAGGAGGGTCTTG
GCCCCGTTCTACAGCCCCAGCCCAAATCCTATTTCAAGAGCATCTCTGTGACCAAGATCACTAAACCAGATGGGA
TAGTGGAGGAGCGCCGGACTGTGGTGGACAGTGAGGGCCGGACAGAGACTACAGTAACCCGACACGAAGCAGATA
GCAGTCCTAGGGGTGATCCAGAATCACCAAGACCTCCAGCCCTGGATGATGCCTTTTCCATCCTGGACTTATTCC
TGGGACGTTGGTTCCGGTCCCGGTAGCCTTGTTAACCCCTCAGAGGCCCTTCAAGTCCTTTCCACCTCTCACCATT
GCCCACCATTAATAAGCTTAGCTTCTCTTGCCACCTCAGGGGCTTGGATATGTGGAATAGTGAAGTGGGGCCATG
TCAGTTTGCTACTCACCCAACTGACCAATAAACCTTTATTTATGCTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 163

MSLFDLFRGFFGFGPRSHRDPFFGGMTRDEDDDEEEEEEGGSWGRGNPRFHSPQHPPEEFGFGFSFSPGGGIRF
HDNFGFDDLVRDFNSIFSDMGAWTLP SHPPELPGPESETPGERLREGQTLRDSMLKYPDSHQPRIFGGVLESDAR
SESPQAPDWGSQRPFHRFDDVWPMDPHPTREDNDLDSQVSQEGGLGPVLQPQPKSYFKSISVTKITKPDGIVEE
RRTVVDSEGRTETTVTRHEADSSPRGDPESPRPPALDDAFSILD LFLGRWFRSR

[illegible]

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FIGURE 165

MRIPSAQPPPAACLPKAPGLEHGDLPGMYPAHMYQVYKSRRGIKRSEDSKETYLPHRLIEKKRRDRINECIAQL
MDLPEHLKLTTLGHLEKAVVLELTALKHVKALTNLIDQQQKI IALQSGLQAGELSGRNVETGQEMFCSGFQTCA
FEVLQYLAKHENTRDLKSSQLVTHLHRVVSELLQGGTSRKPSDPAPKVMDFKEKPSSPAKGSEGPKNVFPVIQR
TFAHSSGEQSGSDTDTDSGYGGESEKGDLRSEQPCFKSDHGRRFTMGERIGA IKQESEEPPTKKNRMQLSDDEGH
QLISSPFLGPHPHQPPFCLPFYLIPPSATAYLPMLEKCWYPTSVPVLYPGLNASAAALSSFMNPDKISAPL
RLPSPLPAHPSVDSSVLLQALKPIPPLNLETKD

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FIGURE 166A

GTCCTTTACGCGTGTCTTCGTGTTGGTGCCTTTTCACTGGTCATAAAGTGCTGCTCACGGCCGTGAAGTCTA
CAGCGTGAAGGCCGCCACCCGGGTCCAGGATGCTTTTGCCGCCGCCAAGCTCCTGGCCCTGGCCCTGATCATCCT
GCTGGGCTTCGTCCAGATCGGGAAGGGTGATGTGTCCAATCTAGATCCCAAGTTCTCATTGAAGGCACCAA
GGATGTGGGGAACATTGTGCTGGCATTATACAGCGGCCTCTTTGCCATATGGAGGATGGAATTACTTGAATTCGT
CACAGAGGAAATGATCAACCCCTACAGAAACCTGCCCCCTGGCCATCATCATCTCCCTGCCCATCGTGACGCTGGT
GTACGTGCTGACCAACCTGGCCTACTTCACCACCCCTGTCCACCGAGCAGATGCTGTGCTCCGAGGCCGTGGCCGT
GGACTTCGGGAACATATCACCTGGGCGTCATGTCTGGATCATCCCCGTCTTCGTGGGCCTGTCTGCTTTGGCTC
CGTCAATGGGTCCCTGTTACATCCTCCAGGCTCTTCTTCGTGGGGTCCCGGAAGGCCACCTGCCCTCCATCCT
CTCCATGATCCACCCACAGCTCCTCACCCCCGTGCCGTCCCTCGTGTTACGTGTGTGATGACGCTGCTCTACGC
CTTCTCCAAGGACATCTTCTCCGTCACTCAACTTCTTCAGCTTCTTCAACTGGCTCTGCGTGGCCCTGGCCATCAT
CGGCATGATCTGGCTGCGCCACAGAAAGCCTGAGCTTGAGCGGCCCATCAAGGTGAACCTGGCCCTGCCTGTGTT
CTTCATCCTGGCCTGCCTCTTCTGATCGCGTCTCCTTCTGGAAGACACCCGTGGAGTGTGGCATCGGCTTCAC
CATCATCCTCAGCGGGCTGCCCGTCTACTTCTTCGGGGTCTGGTGGAAAAACAAGCCCAAGTGGCTCCTCCAGGG
CATCTTCTCCACGACCGTCTGTGTGAGAAGCTCATGCAGGTGGTCCCCAGGAGACATAGCCAGGAGGCCGAGT
GGCTGCCGGAGGAGCATGCGCAGAGGCCAGTTAAAGTAGATCACCTCCTCGAACCCACTCCGGTTCCCCGCAACC
CACAGCTCAGCTGCCCATCCAGTCTCGCCGTCCCTCCAGGTGCGGCAGTGGAGGCTGCTGTGAAACTCTGG
TACGAATCTCATCCCTCAACTGAGGGCCAGGGACCCAGGTGTGCTGCTCCTGCCAGGAGCAGCTTTTGGTC
TCCTTGGGCCCTTTTCCCTTCCCTCCTTTGTTTACTTATATATATATTTTTTTTAAACTTAAATTTTGGGTCAA
CTTGACACCACTAAGATGATTTTTTTAAGGAGCTGGGGGAAGGCAGGAGCCTTCCTTCTCCTGCCCAAGGGCC
AGACCTGGGCAACAGAGCTACTGAGACTTGGAACCTCATTGCTACCACAGACTGCACTGAAGCCAGACAGCT
GCCCAGACACATGGGCTTGTGACATTCTGTGAAAACCAACCCTGTGGGCTTATGTCTCTGCCTTAGGGTTTGCAGA
GTGGAACCTCAGCCGTAGGGTGGCACTGGGAGGGGGTGGGGATCTGGGCAAGGTGGGTGATTCTCCAGGAGG
TGCTTGAGGCCCCGATGGACTCCTGACCATAATCTAGCCCCGAGACACCATCCTGAGCCAGGGAACAGCCCCAG
GGTTGGGGGGTGCCGGCATCTCCCTAGCTCACCAGGCCTGGCCTCTGGGCAGTGTGGCCTCTTGGCTATTTCTG
TTCCAGTTTTGGAGGCTGAGTTCTGGTTCATGCAGACAAAGCCCTGTCTTCAGTCTTCTAGAAACAGAGACAAG
AAAGGCAGACACACCGCGGCCAGGCACCCATGTGGGCGCCACCCCTGGGCTCCACACAGCAGTGTCCCCTGCCCC
AGAGGTGCGAGCTACCCTCAGCCTCCAATGCATTGGCCTCTGTACCGCCCGGCAGCCCTTCTGGCCGGTGCTGG
GTTCCCACTCCCGGCCTAGGCACCTCCCCGCTCTCCCTGTACGCTCATGTCTGTCTGCTGATGCCCGTT
GTCTAGGAGACAGAGCCAAGCACTGCTCACGTCTCTGCCGCTGCGTTTGGAGGCCCCCTGGGCTCTACCCAGTC
CCCACCCGCTGCGAGAGAGGGAAGTAGGGCACCCCTTGTTTTCTGTTGTTCCCGTGAATTTTTTCTGCTATGGGAG
GCAGCCGAGGCTGGCCAATGCGGCCACTTTTCTGAGCTGTGCTGCTCCATGGCAGCAGCAAGGACCCCCA
GAACAAGAAGACCCCCCGCAGGATCCCTCCTGAGCTCGGGGGGCTCTGCCTTCTCAGGCCCCGGGCTTCCCTTC
TCCCAGCCAGAGGTGGAGCCAAGTGGTCCAGCGTCACTCCAGTGTCTAGCTGTGGCTGGAGGAGCTGGCCTGTG
GCACAGCCCTGAGTGTCCCAAGCCGGGAGCCAACGAAGCCGGACACGGCTTCACTGACCAGCGGCTGCTCAAGCC
GCAAGCTCTCAGCAAGTGCCCAGTGGAGCCTGCCGCCCCACCTGGGCACCGGGACCCCTCACCATCCAGTGGG
CCCGGAGAAACCTGATGAACAGTTTGGGGACTCAGGACCAGATGTCCGTCTCTCTTGGCTTGAGGAATGAAGACCT
TTATTCACCCCTGCCCCGTTGCTTCCCGCTGCACATGGACAGACTTCACAGCGTCTGCTCATAGGACCTGCATCC
TTCTTGGGGACGAATTCCACTCGTCCAAGGGACAGCCACGGTCTGGAGGCCAGGACCACAGCAGGCAGGTGG
ACTGACTGTGTTGGGCAAGACCTCTTCCCTCTGGGCTGTTCTCTTGGCTGCAAATAAGGACAGCAGCTGGTGCC
CCACCTGCCTGGTGCATTGCTGTGTGAATCCAGGAGGCAGTGGACATCGTAGGCAGCCACGGCCCCAGGTCCAGG
AGAAGTGCTCCCTGGAGGCACGGACCACTGCTTCCACTGGGGCCGGCGGGGCCACGCACGACGTGACCTCTT
ACCTTCCCGCTCGGCTAGGGGTCTCGGGATGCCGTTCTGTTTCAAACCTCCTGTTCTGGGAGGTGGACATGCCT
CAAGGATACAGGGAGCCGGCGGCCTCTCGACGGCACGCACTTCTGTGGCTGCTGCGGCTGTGGGCGAGCATGG
GGGCTGCCAGCGTCTGTTGTGGAAGTAGCTGCTAGTGAATGGCTGGGGCCGCTGGGGTCCGTCTTCACTGC
GCAGGTCTCTTCTGGGCGTCTGAGCTGGGGTGGGAGCTCCTCCGAGAAGGTTGGTGGGGGGTCCAGTCTGTGAT
CCTTGGTGCTGTGTGCCCCACTCCAGCCTGGGGACCCCACTTCAGAAGGTAGGGGCCGTGTCGCGGGTGTGAC
TGAGGCCTGCTTCCCCCTCCCCCTCCTGCTGTGCTGGAATTCACAGGGACCAGGGCCACCGCAGGGGACTGTCT
CAGAAGACTTGATTTTTTCCGTCCCTTTTTCTCCACACTCCACTGACAAACGTCCCCAGCGGTTTCCACTTGTGGG

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FIGURE 166B

CTTCAGGTGTTTTCAAGCACAACCCACCACAACAAGCAAGTGCATTTTCAGTCGTTGTGCTTTTTTGTTTTGTGC
TAACGTCTTACTAATTTAAAGATGCTGTCGGCACCATGTTTATTTATTTCCAGTGGTCATGCTCAGCCTTGCTGC
TCTGCGTGGCGCAGGTGCCATGCCTGCTCCCTGTCTGTGTCCCAGCCACGCAGGGCCATCCACTGTGACGTCGGC
CGACCAGGCTGGACACCCTCTGCCGAGTAATGACGTGTGTGGCTGGGACCTTCTTTATTCTGTGTTAATGGCTAA
CCTGTTACACTGGGCTGGGTTGGGTAGGGTGTTCGGCTTTTTTGTTGGGGTTTTTATTTTAAAGAAACACTCAA
TCATCCTAG

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FIGURE 167

MINPYRNLPLAIIISLPVTLVYVLTNLAYFTTLSTEQMLSSEAVAVDFGNYHLGVMSWIIPVFVGLSCFGSVNG
SLFTSSRLFFVGSREGHLPSILSMIHPQLLTPVPSLVFTCVMTLLYAFSKDIFSVINFFSFFNWLCVALAIIIGMI
WLRHRKPELERPIKVNALPVEFFILACLFIAVSFWKTPVECGIGFTIILSGLPVYFFGVWWKNKPKWLLQGIFS
TTVLCQKLMQVVPQET

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FIGURE 168

TGAACTGAGCGGCCCTGAGCTGACAGATACACTGCGCAGTGGAACGGCGAGCGAGCCGACGGGCGAGTGAGGGG
CGCACATGATCACCTCGGCCGCTGGAATTATTTCTTCTTGGATGAAGATGAACCACAGCTTAAGGAATTTGCAC
TACACAAATTGAATGCAGTTGTTAATGACTTCTGGGCAGAAATTTCCGAGTCCGTAGACAAAATAGAGGTTTTAT
ACGAAGATGAAGGTTTTCCGGAGTCGGCAGTTTGCAGCCTTAGTGGCATCTAAAGTATTTTATCACCTGGGGGCTT
TTGAGGAGTCTCTGAATTATGCTCTTGGAGCAAGGGACCTCTTCAATGTCAATGATAACTCTGAATATGTGAAA
CTATTATAGCAAAATGCATTGATCACTACACCAAACAATGTGTGGAATGCAGATTTGCCTGAAGGAGAAAAAA
AACCAATTGACCAGAGATTGGAAGGCATCGTAAATAAAATGTTCCAGCGATGTCTAGATGATCACAAGTATAAAC
AGGCTATTGGCATTGCTCTGGAGACACGAAGACTGGACGTCTTTGAAAAGACCATACTGGAGTCGAATGATGTCC
CAGGAATGTTAGCTTATAGCCTTAAGCTCTGCATGTCTTTAATGCAGAATAAACAGTTTCGGAATAAAGTACTAA
GAGTTCTAGTTAAAATCTACATGAACTTGGAGAAACCTGATTTTCATCAATGTTTGTGAGTGCTTAATTTCTTAG
ATGATCCTCAGGCTGTGAGTGATATCTTAGAGAAACTGGTAAAGGAAGACAACCTCCTGATGGCATATCAGATTT
GTTTTGATTTGTATGAAAGTGCTAGCCAGCAGTTTTTGTCTATCTGTAATCCAGAATCTTCGAACTGTTGGCAGCC
CTATTGCTTCTGTGCTGGATCCACTAATACGGGTACTGTTCCGGGATCAGAGAAAGACAGTGACTCGATGGA
CAGAAGAAAAGACAAGCAGTGCAATTTGTAGGAAAGACACCAGAAGCCAGTCCAGAGCCTAAGGACCAGACTTTGA
AAATGATTAATAATTTAAGTGGTGAATGGCTATTGAGTTACATCTGCAGTTCTTAATACGAAACAATAATACAG
ACCTCATGATTCTAAAAAACACAAAGGATGCAGTACGGAATTTCTGTATGTCATACTGCAACCGTTATAGCAA
CTTTTATGCACTGTGGGACAACCAGTGACCAAGTTTCTTAGAGATAATTTGGAATGGTTAGCCAGAGCCACTA
GGGCAAAATTTACTGCTACAGCCAGTTTGGGTGTAATTCATAAGGGTCATGAAAAAGAGCATTACAGTTAATGG
CAACATACCTTCCCAAGGATACTTCTCCAGGATCAGCCTATCAGGAAGGTGGAGGTCTCTATGCACTAGGTCTTA
TTCATGCCAATCATGGTGGTGATATAATTGACTATCTGCTTAATCAGCTTAAGAAGCCAGCAATGATATCGTTA
GACACGGTGGCAGTCTGGGCCTTGGTTTGGCAGCCATGGGAAGTGCACGTCAAGATGTTTATGATTTGCTAAAA
CAAACCTTTATCAGGATGATGCAGTAACAGGGGAAGCAGCTGGCCTGGCCCTAGGTTTGGTTATGTTGGGCTCTA
AAAATGCTCAGGCTATTGAGGACATGGTTGGTTATGCACAAGAACTCAACATGAGAAGATTCTGCGTGGTCTTG
CAGTTGGCATAGCTTTAGTAATGTATGGGAGGATGGAAGAGGCTGATGCTCTCATTGAATCTCTCTGCTGACA
AGGACCCAATTTCTCGAAGGTCTGGAATGTATACTGTAGCCATGGCTTATTGTGGCTCTGGTAACAACAAAGCAA
TTCGACGCTGTACATGTGGCTGTAAAGTATGTGAATGATGATGTCAGGAGTGCAGCAGTAGAATCACTTGGGT
TCATTCTATTTCAGAACCCCTGAACAGTGCCCAAGTGTTGTCTCTTTGTTGTGAGAGATTACAACCCCTCATGTGC
GCTACGGAGCTGCAATGGCCTTGGGGATATGCTGTGCTGGTACAGGAAACAAGGAAGCCATTAATTTGCTAGAAC
CAATGACAAACGACCCCGTGAACCTACGTGAGGCAAGGGGCACTCATAGCTTCAGCTCTCATCATGATCCAGCAGA
CTGAAATCACTTGTCCAAAGGTGAATCAGTTCAGACAGCTGTATTCCAAAGTCATCAATGATAAGCATGATGATG
TCATGGCCAAGTTTGGCGCTATTCTGGCCAGGGCATACTGGATGCAGGTGGTCATAATGTCACAATCTCCTTGC
AGTCCAGGACTGGGCATACTCATATGCCTTCTGTGGTTGGCGTCTTGTATTTACCCAGTTTTGGTTCTGGTTTC
CTCTTTCACACTTCTGTGCTATTGGCTTATACCCCTACCTGTGTGCTATTGGCCTTAACAAGGACTTAAAGATGCCGA
AAGTTCAGTATAAATCGAACTGTAAACCATCCACATTGTCATATCCTGCCCTCTGGAAGTACCAAAAGAAAAAG
AAAAGGAAAAGGTTTTCTACTGCTGTATTATCTATAACTGCCAAGGCTAAAAAGAAGGAAAAAGAAAAAGAAAAA
AGGAGGAGGAGAAAATGGAAGTGATGAGGCAGAGAAAAAGGAGGAAAAAGAGAAGAAAAAGAACCTGAGCCAA
ACTTCCAGTTATTGGATAACCCAGCCCGAGTTATGCCTGCCAGCTTAAGGTCCTAACCATGCCGGAGACCTGTA
GATACCAGCCTTTCAAACCACTCTCTATTGGAGGCATCATCTCTGAAGGATACCAGTGAAGACATTGAGGAGC
TGGTGGAACTGTGGCAGCACATGGCCCAAAATCGAGGAGGAGGAACAAGAGCCAGAACCCCAAGAACCTTTG
AGTATATTGATGATTAAAGGACCAGAGGATCTCACTTGCTTATCTGAAGAAGATTGTCCAGGCTCATATTGGGAAT
GCTTATGAGGAAATTCATGCCGAGACCTGCTATTCAATGCATGTATCGTTGCCTCTGCACTGACCTGAAGAACC
TGCTCTCAAGTCTTTGGTTGAAGAGAAGATATGACTGTTGAGTGTGCTCTTTCACAGAAGTTGGTTTTCAAA
AAATATAAGATCTCCAGATGGACAAG

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FIGURE 169

MITSAAGIISLLDEDEPQLKEFALHKLNAVVNDFWAEISESVDKIEVLYEDEGFRSRQFAALVASKVFYHLGAFE
ESLNYALGARDLFNVNDNSEYVETIIAKCIDHYTKQCVENADLPEGEKKPIDQRLEGIVNKMFORCLDDHKYKQA
IGIALETRRLDVFEKTIILESNDVPGMLAYSLKLCMSLMQNKQFRNKVLRVLVKIYMNLEKPDFINVCQCLIFLDD
FQAVSDILEKLVKEDNLLMAYQICFDLYESASQQFLSSVIONLRTVGTPIASVPGSTNTGTVPGEKSDSDSMETE
SAFVGKTPEASPEPKDQTLKMIKILSGEMAIELHLQFLIRNNNTDLMILKNTKDAVRNSVCHTATVIANSE
TSDQFLRDNLEWRLARATNWAKFTATASLGVIHKGHEKEALQLMATYLPKDTSPGSAYQEGGGLYALGLIH
EDIIDYLLNQLKNASNDIVRHGGSGLGLAAMGTARQDVYDLLKTNLYQDDAVTGEAAGLALGLVMLGSKN
JEDMVGYAQETQHEKILRGLAVGIALVMYGRMEEADALIESLCRDKDPILRRSGMYTVAMAYCGSGNNKAIR
VAVSDVNDDVRSAAVESLGFILFRTPEQCPVSVSLLSESYNPHVRYGAAMALGICCAGTGNKEAINLLEPM
WNYVRQGALIASALIMIQQTEITCPKVNQFRQLYSKVINDKHDDVMAKFGAILAQGILDAGGHNVTISLQS
HMPSVVGVLVFTQFWFWFPLSHFLSLAYTPTCVIGLNKDLKMPKVQYKSNCKPSTFAYPAPLEVPKEKEK
TAVLSITAKAKKKEKEKEKEKEEKEVDEAEKKEEKEKKKEPEPNFQLLDNPARVMPAQLKVLTPETCRY
KPLSIGGIIILKDTSEDIEELVEPVAAHGPKIEEEEQEPEPEPFYIDD

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FIGURE 170A

TAGAATACTTGGGTGACATCTGCCTGAGAGATCTCCAAGAATTACAGAAGACAAAAATACTAATGCATTGAGAA
AGCGGTAGTTTTGGGGGAGGGGAAAAAGCAACTGCTTTCTGATCTGCAACTTGGCTGGATGCTAAGATGTC
GTGGACATGAATAGCCAGGGTCTGACAGCAATGAAGAGGACTATGACCCAAATTGTGAGGAAGAGGAAGAAGAA
GAAGAAGACGACCCTGGGGACATAGAGGACTATTACGTGGGAGTAGCCAGCGATGTGGAGCAGCAGGGGGCTGAT
GCCTTTGATCCCAGGAGTACCAGTTCAGTTGCTTGACCTACAAGGAATCTGAGGGTGCCCTCAATGAGCACATG
ACCAGCTTAGCTTCTGTCTAAAGGTATCTCATTAGTTGCTAAACTTATATTAGTTAATTTCCACTGGCAAGTT
TCAGAGATATTGGACAGATACAAGTCCAATTCTGCTCAACTGCTTGTTGAGGCTCGAGTTCAGCTAATCCATCA
AAACATGTTCCACATCCCATCCCCCTCACCCTGTGCAGTGTGTATGCAGTTTGTGCGAAAGGAAAAACCTACTC
TCTCTGGCCTGTGACACCAGTTTGTCCGAGCTGCTGGGAGCAGCACTGCTCAGTTCTCGTCAAGGACGGCGTG
GGCGTGGGAGTCTCTTGCATGGCTCAGGACTGTCCACTCCGTACACCAGAGGACTTTGTGTTTCCATTGCTTCCC
AATGAAGAATTGAGAGAGAAATACAGGCGCTACCTCTTCAGGAGTATGTGGAGAGTCATTACCAGCTCCAGCTG
TGCCCTGGTGCAGACTGCCCCATGGTTATTCGGGTACAGGAGCCTAGAGCTCGCCGAGTACAGTGCAATCGGTGC
AACGAGGTCTTCTGTTCAAGTGTCTGTCAGATGTATCACGCACCCACAGACTGTGCCACAATCCGGAAATGGCTC
ACGAAGTGTGCAGACGACTCTGAAACAGCCAACTACATTAGTGCTCACAATAAAGACTGTCCCAAGTGCAACATC
TGCATTGAGAAGAATGGAGGCTGCAATCACATGCAATGCTCCAAATGTAAACACGACTTCTGTCTGGATGTGTCTA
GGAGATTGGAAGACTCATGGCAGTGAATACTATGAGTGCAGTCTGTTACAAGGAGAATCTGACATCGTGAACCAG
AGCCAACAAGCCAGGCGAGGGAAGCCCTCAAGAAGTACTTATTCTACTTTGAGAGGTGGGAAAACCACAATAAA
AGCTTGCACTAGAGGCACAGACATACCAGCGGATTACAGAGAAGATTACAGGAGAGGGTCATGAACAATCTGGGG
ACATGGATCGACTGGCAGTACCTACAGAATGCTGCCAAGCTCTTGCCAAGTGTGATACACCCTGCAATACACC
TACCCATATGCATATTACATGGAGTCCGGACCCAGGAAGAAGCTGTTTGAATACCAGCAGGCTCAGCTGGAGGCT
GAGATCGAAAACCTCTCATGGAAAGTGGAGCGTGCAGACAGCTATGACAGAGGGGACTTGGAGAACCAGATGCAT
ATAGCGGAGCAGCGGAGGAGAACCCTGCTGAAAGATTTCCATGACACCTAAGTTGGGATGTGGATGTGCCGGGT
GAGGAAGATGTGGCTGCAAGGTCTCCCGGCTGCCATACTGCATGCTGCAGGCTCTGCCTTTTCATGACCCAGGCA
ACAGCCAGGGCCCCACTCCTGAGAGACACTGGCAACACCTCTTAGTTGATTTCTGTTTTCTTCTTTTCACTTT
TTGTTTCTACCAGGTAGAGGCCATGTTGAAGTGGCTCTTTTTCAGGACTTTTATTTCCCCCTGGATGGTTGTTG
GGAGGGAGGGAAAGTGTTTTCTGAATGGCTATTAATAGTATTAGATCATTACAATTATGTAACCTTTCAAAGGTT
GTACAATTATACAAAAAAGGCAAACTATAGGATAACACAGAGCCCTTTTGAATAAATTTGGCAT
TGGAGTGTTTTACCCTCTAGCTGTTTTACTTAGAATGTAAACATATGCTGCCTACCCACCTCAAATGTCTGTACT
GCAAGAGGGCCCTGGGCCTCTGCTTTCCATATTACGTTTGGCCAGAGTTGTAGTCCCAAAGAAGAGCATGGGTG
GCAGATGGTAGGGAATTGAACTGGCCTGTGCAATGGGCATGGAGCACAAGGGGTACAGCATGCCTCCTGCCTTA
CCGTGGCAGTACGGAGACAGTCCAGAACATGGTCTTCTTGCCACGGGTGTTGTTGTCTCTGGTGGTGTGCTGATG
TCTGTGGCTCACCTTTATTCTTGAACTGAGGTTTACCTGGATCTGGCTACTGAGGCTAGAGCCACAGCAGAAT
GGGTTTGGGCCTGTGGCCCCAACTAGGGGGTGTGGGTTTCATCACAGTGTGCTTTTGTCTCCTAAAGATAGG
GATCTACTTTTGAAGGAATTGTTCTCTCCAAATAAATTTGCTTTACCTTGGTCTTTCTTTTGTGCCAGTATTC
AAGTGGTATAGCTCTGAGCAGGGTCACATTGCGCAAACCTGACACTGTCTTGCTGCATTCTCCTTTGGCAAACA
TCAGGGTCAGAATTACAGGATAGCCCTTCTAGGGCACTGGACTTTCTGGCATGGGGCTGTGTTTGACAAGTTA
TTTTCATGTTACCTGGAGAGTGTCCAGAGGCTGCTCTGAGGCTGAGGTGTGTTCCCCCTTGCTGGTTCCAGCTG
TCAGAGGGATACCATCCTAGGGTCTGGGAATCCAAGGCCACGAGACTCCTTGTTTGTGGTCCGAGATCCTGTAC
TAAGGAGGGTCTGGCCAGAGGAACAGACCAGCTTTTGACAATGAAGCGCAAGGGAACAAGTGGTTTGCTGGT
TCCTACCTGTCTGAACCTGGTCTGTGGGCCATTGAAAGTTAGATCTGTGATCTCTGGGGTTTTGTGGCTTT
GTTCAATGCTTCCACTCTAGGGCAGGCAGAGCAGTCTATACTCTCCAAGCCTGCTTGACCTCCAAGTAGAGCTG
ATACAGAGATCTGTGAATATTGTGATAGAAATCTTTGGTATTACATATTTAGCTGCAAGTCAGCAATTTCCC
AGGTACCATGTAAGCTATAAAACAGTCATTCTTAAAGACAGAGGATAGCTGTGACTCATGGGATCATGAGGTCCA
TGGCTGGTTGCAGGTTCCCTTTTTCTTCTCAGGTTTTGTCTCTTCTGTGTTGTCCCCAGCAAGGGAGAGACT
GTGGGGTGGATTGGGAGAACAGATTAGGAGTATAGCAAATGAACCCAGAATGGAACAGTGGGGAGCTAACTGTGA
ATGAGGAGAGTACCTGCTGCAGGACCTGGAGGTGAGGTGTGAATGCTGTATTGGCACAGGGAATAAATATCCTGG
CGTCTGGAGCCTTACCTCTCCGTCAAGTCCTTCTGTGATACTGCCATGGCACAGGATCTGAGTTGCAGCTCTG
CACCTAAATCACACCTGGGCATTGTCTGGGCTGCAGGGCTGCCAGGTTCTGTACTTGTGTCCAGCTGTGGCCC

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FIGURE 170B

TGGATGCTGGAGCTGGAGGGTTTTCTGTGCTCAGACTGTAGCCTGTAGCTCTTGGCCTGTGTAGAGCCCCCTCCT
GTGCCCTCAGTGGCTGTCGTTTGTTAACATCATCAGGAAGATGGGAAAGGTCAGGCAGAATTTTTCTGCCCTACA
AAGGGTGGAAGAGAAAGGACACAGTATTTTCATGAATTACCATATATCTTTGTTTTCTTCAACGAAAAAGTTA
ATTGAGGCAATGTCATCTGCTCAAAGTTGAGTGGTTTATTCACAATAAACTGTAAGTTTCTGATTAT

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FIGURE 171

MSVDMNSQGSDSNEEDYDPNCEEEEEEEEDDPGDIEDYYVGVASDVEQQGADAFDPPEEYQFTCLTYKESEGALNE
HMTSLASVLKVSHSVAKLILVNFHWQVSEILDYKSNQAQLLEAVQPNPSKHVPTSHPPHHCAVCMQFVRKEN
LLSLACQHQFCRSCWEQHCSVLVKDGVGVGVSCMAQDCPLRTPEDFVFLLPNEELREKYRRYLFRDYVESHYQL
QLCPGADCPMVIRVQEPRARRVQCNRCNEVFCFKCRQMYHAPTDCAIIRKWLTKCADDSETANYISAHTKDCPKC
NICIEKNGGCNHMQCSKCKHDFCWMCLGDWKTHGSEYYECSRYKENPDIVNQSQAQAREALKKYLFFYFERWENH
NKSLLQLEAQTYQRIHEKIQERVMNNLGTWIDWQYLQNAAKLLAKCRYTLQYTPYAYYMESGPRKKLFYQQAQL
EAEIENLSWKVERADSYDRGDLENQMHIAEQRRRTLLKDFHDT

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FIGURE 172

TAGCTAGGCAGGAAGTCGGCGCGGGCGGGCGGGACAGTATCTGTGGGTACCCGGAGCACGGAGATCTCGCCGGCT
TTACGTTACCTCGGTGTCTGCAGCACCTCCGCTTCCCTCTCCTAGGCGACGAGACCCAGTGGCTAGAAGTTCAC
CATGTCTATTCTCAAGATCCATGCCAGGGAGATCTTTGACTCTCGCGGGAATCCCAGTGTGAGGTTGATCTCTT
CACCTCAAAGGTCTCTTCAGAGCTGCTGTGCCAGTGGTGTCTCAAGGCTGTTGAGCACATCAATAAACTATTGCGCC
GGACAATGATAAGACTCGCTATATGGGGAAGGGTGTCTCAAGGCTGTTGAGCACATCAATAAACTATTGCGCC
TGCCCTGGTTAGCAAGAACTGAACGTACAGAACAGAGAAGATTGACAACTGATGATCGAGATGGATGGAAC
AGAAAATAAATCTAAGTTTGGTGCGAACGCCATTCTGGGGGTGTCCCTTGCCGTCTGCAAAGCTGGTGCCGTTGA
GAAGGGGGTCCCCCTGTACCGCCACATCGCTGACTTGGCTGGCAACTCTGAAGTCATCCTGCCAGTCCCCGGCGTT
CAATGTCATCAATGGCGGTTCTCATGCTGGCAACAAGCTGGCCATGCAGGAGTTCATGATCCTCCCAGTCGGTGC
AGCAAACCTTCAGGGAAGCCATGCGCATTGGAGCAGAGGTTTACCACAACCTGAAGAATGTCATCAAGGAGAAATA
TGGGAAAGATGCCACCAATGTGGGGGATGAAGGCGGGTTTGCTCCCAACATCCTGGAGAATAAAGAAGGCCTGGA
GCTGCTGAAGACTGCTATTGGGAAAGCTGGCTACACTGATAAGGTGGTTCATCGGCATGGACGTAGCGGCCTCCGA
GTTCTTCAGGTCTGGGAAAGTATGACCTGGACTTCAAGTCTCCCGATGACCCAGCAGGTACATCTCGCCTGACCA
GCTGGCTGACCTGTACAAGTCCCTTCATCAAGGACTACCCAGTGGTGTCTATCGAAGATCCCTTTGACCAGGATGA
CTGGGGAGCTTGGCAGAAGTTCACAGCCAGTGCAGGAATCCAGGTAGTGGGGGATGATCTCACAGTGACCAACCC
AAAGAGGATCGCCAAGGCCGTGAACGAGAAGTCCTGCAACTGCCTCCTGCTCAAAGTCAACCAGATTGGCTCCGT
GACCGAGTCTCTTCAGGCGTGCAAGCTGGCCAGGCCAATGGTTGGGGCGTCATGGTGTCTCATCGTTCGGGGGA
GACTGAAGATACCTTCATCGCTGACCTGGTTGTGGGGCTGTGCACTGGGCAGATCAAGACTGGTGCCCCCTTGCCG
ATCTGAGCGCTTGCCAAGTACAACCAGCTCCTCAGAATTGAAGAGGAGCTGGGCAGCAAGGCTAAGTTTGCCGG
CAGGAACTTCAGAAACCCCTTGGCCAAGTAAGCTGTGGGCAGGCAAGCCCTTCGGTCACCTGTTGGCTACACAGA
CCCCCTCCCCTCGTGTGCTCAGCTCAGGCAGCTCGAGGCCCCCGACCAACACTTGCAGGGGTCCCTGCTAGTTAGCGCC
CCACCGCCGTGGAGTTCGTACCGCTTCCTTAGAACTTCTACAGAAGCCAAGCTCCCTGGAGCCCTGTTGGCAGCT
CTAGCTTTGCAGTCGTGTAATTGGCCCAAGTCATTGTTTTTCTCGCCTCACTTTCCACCAAGTGTCTAGAGTCAT
GTGAGCCTCGTGTCTATCTCCGGGGTGGCCACAGGCTAGATCCCCGGTGGTTTTGTGCTCAAATAAAAAGCCTCA
GTGACCCATGAG

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FIGURE 173

MSILKIHAREIFDSRGNPTVEVDLFTSKGLFRAAVPSGASTGIYEALERDNDKTRYMGKGVSKAVEHINKTIAP
ALVSKKLVTEQEKIDKLMIEMDG TENKSKFGANAILGVSLAVCKAGAVEKGVPLYRHIADLAGNSEVILPVPAF
NVIINGGSHAGNKLAMQEFMILPVGAANFREAMRIGAEVYHNLKNVIKEKYGKD ATNVGDEGGFAPNILENKEGLE
LLKTAIGKAGYTDKVVIGMDVAASEFFRSGKYDLDFKSPDDPSRYISPDQLADLYKSF IKDYPVVSIEDPFDQDD
WGAWQKFTASAGIQVVGDDLTVTNPKRIAKAVNEKSCNCLLLKVNQIGSVTESLQACKLAQANGWGMVSHRSGE
TEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLLRIEEEELGSKAKFAGRNFNRNPLAK

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FIGURE 174

GGGTGAGGCAGTGGCTCCTTGACAGCAGCTGCACGCGCCGTGGCTCCGGATCTTCTTCGTCTTTGCAGCGTAGC
CCGASTCGGTTCAGCGCCAGAGGACCTCAGCAGCCATGTCGAAGCCCCATAGTGAAGCCGGGACTGCCTTCATTCA
GACCCAGCAGCTGCACGCAGCCATGGCTGACACATTCTGAGACACATGTGCCGCTGGACATTGATTACACCAC
CATCACAGCCCCGAACACTGGCATCATCTGTACCATTGGCCCCAGCTTCCCGATCAGTGGAGACGTTGAAGGAGAT
AAGTCTGGAATGAATGTGGCTCGTCTGAACTTCTCTCATGGAACATCATGAGTACCATGCGGAGACCATCAA
GCGCACAGCCACGGAAAGCTTTGCTTCTGACCCCATCTCTACCGGCCCGTTGCTGTGGCTCTAGACAC
GACCTGAGATCCGAACCTGGGCTCATCAAGGGCAGCGGCACTGCAGAGGTGGAGCTGAAGAAGGGAGCCAC
CAAAATCACGCTGGATAACGCCTACATGGAAGGTGTGACGAGAACATCCTGTGGCTGGACTACAAGAACAT
AGGTGGTGGAAAGTGGGCAGCAAGATCTACGTGGATGATGGGCTTATTTCTCTCCAGGTGAAGCAGAAAGG
GACTTCCTGGTGACGGAGGTGGAAAATGGTGGCTCCTTGGGCAGCAAGAAGGTGTGAACCTTCTTGGGGC
TGGACTTGCTGTGTGTCGGAGAAGGACATCCAGGATCTGAAGTTGGGGTCGAGCAGGATGTTGATAT
TTTTCGCTCATTATCCGCAAGGCATCTGATGTCCATGAAGTTAGGAAGGTCTGGGAGAGAAGGGAAAGAA
AAGATTATCAGCAAAATCGAGAATCATGAGGGGGTTTCGGAGGTTTGATGAAATCCTGGAGGCCAGTGATGG
CATGGTGGCTCGTGGTGATCTAGGCATTGAGATTCTTGACAGAGAAGGTCTTCTTGGCTCAGAAGATGATGAT
TGACGGTGCAACCGAGCTGGGAAGCCTGTCTGTGCTACTCAGATGCTGGAGAGCATGATCAAGAAGCCCCG
CCCCACTCGGGCTGAAGGCAGTGATGTGGCCAATGCAGTCCTGGATGGAGCCGACTGCATCATGCTGTCTGGAGA
AAGCCAAAGGGGACTATCCTCTGGAGGCTGTGCGCATGCAGAACCTGATTGCCCGTGAGGCAGAGGCTGCCAT
CTACCACTTGCAATTATTTGAGGAACTCCGCCGCTGGCGCCCATTACCAGCGACCCACAGAAGCCACCGCCGT
GGGTGCCGTGGAGGCCTCCTTCAAGTGCTGCAGTGGGGCCATAATCGTCCTCACCAAGTCTGGCAGGTCTGCTCA
CCAGGTGGCCAGATACCGCCACGTGCCCCCATCATTGCTGTGACCCGGAATCCCCAGACAGCTCGTCAGGCCCA
CCTGTACCGTGGCATCTTCCCTGTGCTGTGCAAGGACCCAGTCCAGGAGGCCTGGGCTGAGGACGTGGACCTCCG
GGTGAACCTTTGCCATGAATGTTGGCAAGGCCCCGAGGCTTCTTCAAGAAGGGAGATGTGGTCATTGTGCTGACCGG
ATGGCGCCCTGGCTCCGGCTTCACCAACACCATGCGTGTTGTTCTGTGCCGTGATGGACCCAGAGCCCCCTCT
CCAGCCCCGTGCCACCCCTTCCCCCAGCCCATCATTAGGCCAGCAACGCTTGTAAGACTCACTCTGGGCTGT
AACGTGGCACTGGTAGGTTGGGACACCAGGGAAGAAGATCAACGCCTCACTGAAACATGGCTGTGTTTGCAGCCT
GCTCTAGTGGGACAGCCAGAGCCTGGCTGCCCCATCATGTGGCCCCACCCAATCAAGGGAAGAAGGAGGAATGC
TGGACTGGAGGCCCTGGAGCCAGATGGCAAGAGGGTGACAGCTTCTTCTGTGTGTACTCTGTCCAGTTCTT
TTAGAAAAAATGGATGCCCAGAGGACTCCCAACCCTGGCTTGGGGTCAAGAAACAGCCAGCAAGAGTTAGGGGCC
TTAGGGCACTGGGCTGTTGTTCCATTGAAGCCGACTCTGGCCCTGGCCCTTACTTGCTTCTCTAGCTCTCTAGGC
CTCTCCAGTTTGCACCTGTCCCCACCCTCCACTCAGCTGTCTGCAGCAAACTCCACCCTCCACCTTCCATT
TCCCCACTACTGCAGCACCTCCAGGCCTGTTGCCGC

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FIGURE 175

MSKPHSEAGTAFIQTQQLHAAMADTFLEHMCRLDIDSPITARNTGIICTIGPASRSVETLKEMIKSGMNVARLN
FSHGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKGSGTAEVELKKGATLKITLDNAYME
KCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKGADFLVTEVENGGSLGSKKGVNLPGAAVDLPAVSEKD
IQDLKFGVEQDVMVFASFIRKASDVHEVRKVLGEKGKNIKIISKIENHEGVRRFDEILEASDGIMVARGDLGIE
IPAEEKVFLAQKMMIGRCNRAGKPVICATQMLESMIKKPRPTRAEGSDVANAVLDGADCIMLSGETAKGDYPLEAV
RMQNLIAREAEAAIYHLQLFEELRRLAPITSDPTEATAVGAVEASFKCCSGAIIVLTSGRSAHQVARYRPRAPI
IAVTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRVNFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTM
RVVPVP

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FIGURE 176

GGCTTGGTCACTATGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCC
CGGCCCCAGACCGGCCTGTCCTTCCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGAAG
CTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAATACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAA
TTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCATCCCGCTGGTCATCGGACAATTTCTGGAGGCTGTG
GATCAGAATACAGCCATCGTGCGCTCTACACAGGCTCCAATATTATGTGCGCATCCTGAGCACCATCGATCGG
GAGCTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGCTGCCCCCGAA
GCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGCTCACGCATTTGAGCTCTACAAGCAGATCGGCATC
GATCCCCCCCCGAGGCGTCCTCATGTATGGCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGGCGGTGGCACAT
CACACAACAGCTGCATTTCATCCGGGTGCTGGGCTCGGAGTTTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATG
GTCCGGGATGTGTTCCGCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAGACGAGATTGATGCCATCGCC
ACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGGTTTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATG
GATGGATTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACAAACAGAGCAGACACCCTGGATCCGGCCCTG
CTACGGCCAGGACGGCTGGACCGTAAAATTGAATTTCCACTTCCTGACCGCCGCCAGAAGAGATTGATTTTCTCC
ACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACTTGGAAGACTATGTGGCCCCGCCAGATAAGATTTCA
GGAGCTGATATCAACTCCATCTGTCAGGAGAGTGGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCCTGGCC
AAGGACTTCGAGAAAGCATAACAAGACTGTTCATCAAGAAGGACGAGCAGGAGCATGAGTTTTACAAGTGACCTTC
CCTTCCCTCCACCACACCACTCAGGGGCTGGGGCTTCTCTCGCACCCCCAGCACCTCTGTCCCAAAACCTCATT
CCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAGATAAGATCGAATCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 177

MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDLYSRYKKLQQELEFLEVQEEYIKDEQKNLKKEFLHA
QEEVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYYVRILSTIDRELLKPNASVALHKHSNALVDVLPPEADSS
IMMLTSDQKPDVMYADIGGMDIQKQEVREAVELPLTHFELYKQIGIDPPRGVLMYGPPGCGKTMLAKAVAHHTTA
AFIRVVGSEFVQKYLGEGRPMVRDVFR LAKENAPAIIFIDEIDAIATKRFDAQTGADREVQRILLELLNQMDGFD
QNVNVKVIMATNRADTLDPALLRPGR LDRKIEFPLPDRRQKRLIFSTITSKMNLSEVDLEDYVARPDKISGADI
NSICQESGMLAVRENRYIVLAKDFEKAYKTVIKKDEQEHEFYK

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FIGURE 178

CCGAGGCCAAGTCCCGGGCGCTAGCCACCTCCCACCCGCCTCTTGGCTCCTCTCCTCTAGGCCGTCGCTTTTCGG
GTTCTCTCATCGCTTCGTCGTTTCGCCAATGTTTGAGGAGAAGGCCAGCAGTCCTTCAGGGAAGATGGGAGGCGAG
GAGAAGCCGATTGGTGCTGGTGAAGAGAAGCAAAAGGAAGGAGGCCAAAAGAAGAACAAAGAAGGATCTGGAGAT
GGAGGTCGAGCTGAGTTGAATCCTTGGCCTGAATATATTTACACACGTCCTTGAGATGTATAATATACTAAAAGCA
GAACATGATTCCATTCTGGCAGAAAAGGCAGAAAAAGATAGCAAGCCAATTAAAGTCACCTTTGCCTGATGGTAAA
CAGGTTGATGCGGAATCTTGGAAAACCTACACCATATCAAATTGCCTGTGGAATTAGTCAAGGCCTGGCCGACAAC
ACCGTTATTGCTAAAGTAAATAATGTTGTGTGGGACCTGGACCGCCCTCTGGAAGAAGATTGTACCTTGGAGCTT
CTCAAGTTTGAGGATGAGGAAGCTCAGGCAGTGTATTGGCACTCTAGTGCTCACATAATGGGTGAAGGCATGGAA
AGAGTCTATGGTGGATGTTTATGCTACGGTCCGCCAATAGAAAATGGATTCTATTATGACATGTACCTCGAAGAA
GGGGGTGTGTCTAGCAATGATTTCTCTCTCTGGAGGCTTTGTGTAAGAAAATCATTAAAGAAAAACAAGCTTTT
GAAAGACTGGAAGTTAAGAAAGAACTTTACTGGCAATGTTTAAGTACAACAAGTTCAAATGCCGGATATTGAAT
GAAAAGGTGAATACTCCAACCTACCACAGTCTATAGATGTGGCCCTTTGATAGATCTCTGCCGGGGTCTCATGTT
AGACACACGGGCAAAATTAAGGCTTTAAAAATACACAAAATTCTCCACGTACTGGGAAGGCCAAAGCAGATATG
GAGACTCTCCAGAGAATTTATGGCATTTCATTCCCAGATCCTAAATGTTGAAAGAGTGGGAGAAGTTCCAAGAG
GAAGCTAAAAACCGAGATCATAGGAAAATGGCAGGGACCAAGAAGTATATTTCTTTTCATGAAGTCAAGCCCTGGA
AGTTGCTTTTTTCTGCCAAAAGGAGTCTATATTTATAATGCATTATTGAATTCATTAGGAGCGAATATAGGAAA
AGAGGATTCCAGGAGGTAGTCACCCCAAACATCTTCAACAGCCGACTCTGGATGACCTCGGGCCACTGGCAGCAC
TACAGCGAGAACATGTTCTCCTTTGAGGTGGAGAAGGAGCTGTTTGCCCTGAAACCCATGAAGTCCCAGGACAC
TCCCTTATGTTTGATCATCGGCCAAGGTCTGGCGAGAAGTGCCTCTGCGGCTAGCTGATTTGGGGGTCTTCAT
AGGAACGAGCTGTCTGGAGCACTCACAGGACTCACCCGGGTACGAAGATTCCAACAGGATGATGCTCACATATTC
TGTGCCATGGAGCAGATTGAAGATGAAATAAAAGGTTGTTTGATTCTTCTACGTACGGTATATAGCGTATTTGGA
TTTTCTTTTAAACTAAACCTTTCTACTCGCCCGGAAAAATTCCTTGGAGATATCGAAGTATGGGATCAAGCTGAG
AAACAACCTGAAAAACAGTCTGAATGAATTTGGTGAAAAGTGGGAGTTAAACTCTGGAGATGGAGCTTTCTATGGC
CCAAAGATTGACATACAGATTAAAGATGCGATTGGGCGGTACCACAGTGTGCAACCATCCAGCTGGATTTCAG
TTGCCCATCAGATTTAATCTTACTTATGTAAGCCATGATGGTGAGGATAAGAAAAGGCCAGTGATTGTTTCATCGA
GCCATCTTGGGATCAGTGGAAGAATGATTGCTATCCTCACAGAAAACCTATGGGGGCAAATTGGCCCCCTTTTG
CTGTCCCCTCGCCAGGTAATGGTAGTTCCAGTGGGACCAACCTGTGATGAATATGCCCAAACGTACGACAACAA
TTCCACGATGCCAAATTCATGGCAGACATTGATCTGGATCCAGGCTGTACATTGAATAAAAAGATTGGAATGCA
CAGTTAGCACAGTATAACTTTCATTTTAGTTGTTGGTGAAAAAGAGAAAAATCACTGGCACTGTTAATATCCGCACA
AGAGACAATAAGGTCCACGGGGAACGCACCATTTCTGAAACTATCGAGCGGCTACAGCAGCTCAAAGAGTTCCGC
AGCAAACAGGCAGAAGAAGAATTTTAAATGAAAAAATTACCCAGATTGGCTCCATGGAAAAGGAGGAACAGCGTTT
CCGTAAAATTGACTTTGTACTCGAAAACGTCAATTTATATTGAACTTGGAGGAGGAGTTTGGCAAAGTCTGAAAT
AGGTCAACCTGCAGGCGTAACCTATTTTTGACCTAGTCAGTTTTTAAACAATGTGCATTTGAAGGAGTTAATTAAA
AGAGAGCCAATAAAATGATTTTACTCATTTCAGTATCTGAGTACTGGAAGTGAACATGAGGAATGCTTTAGTGTA
ATGTGGGAGAACTTTTTTGTAATTTAATGCAATTGAAAAAGTTTTCAAATTCAATTAAGATACTAGAATTGGT
TATGGTGTAACCCGAATTC

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FIGURE 179

MGGEKPIGAGEEKQKEGGKKKNKEGSGDGGRAELNPWEYIYTRLEMYNILKAEHDSILA EKA EKDSKP IKVTL
PDGKQVDAESWKTPPYQIACGISQGLADNTVIAKVNNVVDLDRPLEEDCTLELLKFEDDEEAQAVYWHSSAHIMG
EGMERVYGGCLCYGPPIENGFFYDMYLEEGGVSSNDFSSLEALCKKI KEKQAFERLEVKKETLLAMFKYNKFKC
RILNEKVNTPTTTVYRCGPLIDLGRGPHVRHTGKIKALKIHKNSSTYWEGKADMETLQRIYGISFPDPKMLKEWE
KFQEEAKNRDHRKIGRDQELYFFHELSPGSCFFLPKGVYIYNALIEFIRSEYRKRGFQEVVTPNIFNSRLWMTSG
HWQHYSNMFSFEVEKELFALKPMNCPGHSIMFDHRPRSWRELPLRLADFGGLHRNELSGALTGLTRVRRFQQDD
AHIFCAMEQIEDEIKGCLDFLRTVYSVFGFSFKLNLSTRPEKFLGDI EVWDQAEKQLENSLNEFGEKWELNSGDG
AFYGPKIDIQIKDAIGRYHQCATTQLDFQLPIRFNLTYVSHDGEDKKRPVIVHRAILGSVERMIAILTENYGGKL
APFWLSPRQVMVVPVGPTCDEYAQNVRQQFHDAKFMADIDLDPGCTLNKKIRNAQLAQYNFILVVGEKEKITGT
NIRTRDNKVHGERTISETIERLQQLKEFRSKQAE EEF

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FIGURE 180

GGCACGAGGATTTCGCTGCTCCGCAGCACGGCCGGAGCTGGTCCGGTCAAGAGTCGGGATTTGTGGGGAGAGGTTT
TCCACTGGTCAAGAGAAGGCTTTAAGAAAGACGGTATTAATCTCCCGTTGCGGCTCCCGCCTGGTCCCATCTTCT
GCCCCGCTCCTCCAGGAAATGAATCTGCTGCCGAATATTGAGAGTCCAGTGACTCGGCAGGAGAAGATGGCGACCG
TGTGGGATGAGGCCGAGCAAGATGGAATTGGGGAGGAGGTGCTCAAGATGTCCACGGAGGAGATCATCCAGCGCA
CTGCTGGACAGTGAGATCAAGATCATGAAGAGTGAAGTGTGAGAGTCACCCATGAGCTCCAAGCCATGA
AAGATAAAAGAGAACAGTGAGAAAATCAAAGTGAACAAGACCCTGCCGTACCTTGTCTCCAACGTCATCG
CTGGATGTTGATCCTAATGACCAAGAGGAGGATGGTGCCAATATTGACCTGGACTCCCAGAGGAAGGGCA
CTGTGCTGTGATCAAAACCTCTACACGACAGACGTACTTCCTTCCTGTGATTGGGTTGGTGGATGCTGAAAAGC
AGCCAGGAGACCTGGTGGGTGTGAACAAAGACTCCTATCTGATCCTGGAGACGCTGCCCACAGAGTATGACT
GTGAAGGCCATGGAGGTAGACGAGAGGCCACGGAGCAATACAGTGACATTGGGGGTTTGGACAAGCAGA
GAGCTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAGAAGTTTGAGAACTTGGGGATCCAACCTC
AAGGGGTGCTGATGTATGGGCCCCCAGGGACGGGGAAGACCCTCCTGGCCCGGGCCTGTGCCGCACAGACTA
CCACCTTCCTAAAGCTGGCTGGCCCCCAGCTGGTGCAGATGTTTCATTGGAGATGGTGCCAAGCTAGTCCGGG
CCTTTGCCCTGGCCAAGGAGAAAGCGCCCTCTATCATCTTCATTGATGAGTTGGATGCCATCGGCACCAAGC
GTTTGACAGTGAGAAGGCTGGGGACCGGGAGGTGCAGAGGACAATGCTGGAGCTTCTGAACCAGCTGGATGGCT
TCAGCCCAACACCCAAGTTAAGGTAATTGCAGCCACAAACAGGGTGGACATCCTGGACCCCGCCCTCCTCCGCT
CGGGCCGCCTTGACCGCAAGATAGAGTTCCCGATGCCAATGAGGAGGCCCGGGCCAGAATCATGCAGATCCACT
CCCGAAAGATGAATGTCAGTCTGACGTGAACTACGAGGAGCTGGCCCGCTGCACAGATGACTTCAATGGGGCCC
AGTGCAAGGCTGTGTGTGTGGAGCGGGCATGATCGCACTGCGCAGGGGTGCCACGGAGCTCACCACGAGGACT
ACATGGAAGGCATCCTGGAGGTGCAGGCCAAGAAGAAAGCCAACCTACAATACTACGCCCTAGGGCACACAGGCCA
GCCCCAGTCTCACGGCTGAAGTGCGCAATAAAAGATGGTTTAGGGTCCCTGCCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 181

MNLLPNIESPVTRQEKMATVWDEAEQDGIGEEVLKMSTEEIIQRTRLDSEIKIMKSEVLRVTHELQAMKDKIKE
NSEKIKVNKTLPYLVSNVIELLDVDPNDQEEDGANIDLDSQRKGKCAVIKTSTRQTYFLPVIGLVDAEKLKPGDL
VGVNKDSYLILETLPTHEYDSRVKAMEVDERPTEQYSDIGGLDKQIQELVEAIVLPMNHKEKFENLGIQPPKGVL
YGPPGTGKTLLARACAAQTKATFLKLAGPQLVQMFIGDGAKLVRDAFALAKEKAPSIIFIDELDAIGTKRFDSEK
AGDREVQRTMLELLNQLDGFQPNQVQVIAATNRVDILDPALLRSGRLDRKIEFPMPEEARARIMQIHSRKMNV
SPDVNYEELARCTDDFNGAQCKAVCVEAGMIALRRGATELTHEDYMEGILEVQAKKANLQYYA

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FIGURE 182

GGCACCGCGCGGGACGGAGCTTGGCTGTTGGTCGGTGGGTTCCCGTGCGGCGGCGGCCAAGGAGGAGGAGACACA
GTTGGAGCAGCTCCGTGGGCTGACTGGGGCGAGGCCTCAGCAGCGCGAGCTTGAGTGCGGCGGAGCCTGCGGCGC
CTTCCCTGCGGGTGGGGACGAGCGGGCCCCGCGGCGTCATCGGCGGCGAGGAGCCGCGCGCCTCGGCCTAGCA
TGTCGGAAGCGGGCGAGGAGCAGCCCATGGAGACGACGGGCGCCACCGAGAACGGACATGAGGCCGTCCCCGAAG
CGAGTCGCGGCGGGGCTGGACGGGCGCGCGGCGGGGCTGGAGGCGCGACCGCCGCGCCCCGAGCGGGAATCA
GAACGGCGCCGAGGGACCAGATCAACGCCAGCAAGAACGAGGAGGACGCGGGAAAAATGTTCTGTTGGTGGCCTGA
GCTGGGATACTAGCAAAAAAGATTTAAAAGACTATTTTACTAAATTTGGAGAGGTCGTTGACTGTACAATAAAAA
TGGATCCCAACACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGTTCAAAGATGCAGCCAGTGTGGAGAAGGTCC
TAGACCAGAAGGAGCACAGGCTGGATGGCCGTGTCAATTGACCCTAAAAAGGCCATGGCTATGAAGAAGGACCCGG
TCAAGAAAATCTTCGTTGGGGGTCTGAATCCTGAAAGTCCCACTGAGGAAAAGATCAGGGAGTACTTTGGCGAGT
TTGGGGAGATTGAGGCCATTGAATTGCCAATGGATCCAAAGTTGAACAAAAGACGAGTTTTGTGTTTATCACCT
TTAAAGAAGAAGAACCCGTGAAGAAGTTCTGGAGAAAAAGTTCCATACTGTCAGTGGAAGCAAGTGTGAGATCA
AGGTGGCCAGCCCAAAGAAGTCTATCAGCAGCAGCAGTATGGCTCTGGGGGCGGTGGAAACCGCAACCGAGGGA
ACCGAGGCAGCGGAGGTGGTGGTGGAGGTGGAGGTCAGAGTCAGAGTTGGAATCAGGGCTACGGCAACTACTGGA
ACCAGGGCTACGGCTACCAGCAGGGCTACGGGCCTGGCTATGGCGGCTACGACTACTCGCCCTATGGCTATTACG
GCTACGGCCCCGGCTACGACTACAGTCAGGTTAGTACAACTACGGCAAGAGCCAGCGACGTGGTGGCCATCAGA
ATAACTACAAGCCATACTAGAGGCGGCCAAGGGAGCGACCAACTGATCGCACACATGCTTTGTTTGGATATGGAGT
GAACACAATTATGTACCAAATTTAACTTGGCAAACCTTTCTATTGCCTGTCCCATGTGCATCTTATTTAAATTTT
CCCCATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTGTTTAGGCAGCGTGTGGTGTCTGAGAGGC
CATAGCGCCATCATGGGCTGATTTTTATTACCAGGTCCCCAGAAGCAGGTGAGAGGCTCTGCTTCCTGCTGCCG
CTCTGCAGCCTGGACCTGTGGACCCTGGTTGTAAAGAGTAAATTGTATCTTAGGAAACAGTGTACCTTTTTTT
CACCTTTTAAATTTTATATTATTTGCGTCATACATTTCTGTAAACGGAAGTGTTAATTTTACTGTACTTTTTTGGA
CCCCTTTGGGAATCTAATGTATTGTAAGGTATTTTACACGTGTCCTGATTTTGCCACAACCTGGATATTGAAGC
TATCCAAGCTTTTGAAATAAAATTTAAAAACCCCAAGCCTGGGTGAGTGTGGGAAAAAAAAAAAAAAAAA

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FIGURE 183

MSEAGEEQPMETT GATENGHEAVPEASRGRGWTGAAAGLEARPPRPRAGIRTAPRDQINASKNEEDAGKMFVGGL
SWDTSKKDLKDYFTKFGEVVDCTIKMDPNTGRSRGFGFILFKDAASVEKVLDOKEHRLDGRVIDPKKAMAMKKDP
VKKIFVGGLNPESPTEEKIREYFGEFGEIEAIELPMDPKLNKRRGFVFITFKEEEPVKKVLEKKFHTVSGSKCEI
KVAQPKEVYQQQYGS GGRGNRNRGNRSGGGGGGGQSQSWNQGYGNYWNQGYGYQQGYGPGYGGYDYSPLYGY
GYGPGYDYSQGSTNYGKSQRRGGHQNNYPY

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FIGURE 184

TAGCTGGATTCCAGCCATTGCTGCAGCTGCTCCACAGCCCTTTTCAGGACCCAAACAACCGCAGCCGCTGTTCCC
AGGATGGTGATCCGTGTATATATTGCATCTTCCTCTGGCTCTACAGCGATTAAGAAGAAACAACAAGATGTGCTT
GGTTTCCTAGAAGCCAACAAAATAGGATTTGAAGAAAAAGATATTGCAGCCAATGAAGAGAATCGGAAGTGGATG
AGAGAAAATGTACCTGAAAATAGTCGACCAGCCACAGGTTACCCCTGCCACCTCAGATTTTCAATGAAAGCCAG
TATCGCGGGGACTATGATGCCTTCTTTGAAGCCAGAGAAAATAATGCAGTGTATGCCTTCTTAGGCTTGACAGCC
CCACCTGGTTCAAAGGAAGCAGAAGTGCAAGCAAAGCAGCAAGCATGAACCTTAAGCACTGTGCTTTAAGCATCC
TGAAAAATGAGTCTCCATTGCTTTTATAAAATAGCAGAATTAGCTTTGCTTCAAAGAAAATAGGCTTAATGTTGA
AATAATAGATTAGTTGGGTTTTACATGCAAAACATTCAAAATGAATACAAAATTAAAATTTGAACATTATGGTGA
TTATGGTGAGGAGAATGGGATATTAACATAAAATTATATTAATAAGTAGATATCGTAGAAATAGTGTTGTTACCT
GCCAAGCCATCCTGTATACACCAATGATTTTACAAAGAAAACACCCTTCCCTCCTTCTGCCATTACTATGGCAAC
TTAAGTGTATCTGCAGCTCTACATTAAAAAGGAGAAAGAGAAATAACCTGTCTCTCATTCCCTAAGTTGCCTCATT
AATTTTCATGAACAAGAATATGTACCTTTTTGATGCTATATTACTGCGATTAAAAAAGTTCTTGCAGGTAATGTT
TATGTATAGTTAAACGTTGTAATTTCTTATCGTAATTATAACATTCCCATTTCTTTGTAGATGAAACTCTACATAT
GAACCACAGATTTTCTGAGCTTCTAAATGTAGCCTTTTCATTGCACATTTTCAGTGATCAGAATAGATATCCTTTTA
CACGCACAAAAGCAATAGATTCATTTCAGTGGACAAGTTCCTTGTTTAACTACACAGCTATGATGGAATCATATAT
CCAAGTTCCTTGCTCAGTGAAATATGCATATGTATATCATGAAGTGGGATGCCAAGTAAGCTTAAATGCATTC
TCTAGCAAAGAGATTAGACTTTTAAATAACTCTTATAAAACAGGTTGGCGATCATTTCCCAAGATTGGTTTCCCT
TGAGTTTTTGTTAAACAAATCTTAGTAGTTTTGCCCGTTTTAAACAACCTCACAATCGTAAATGCTACTATTCCCT
AAGATATCTTACCTTTTTATTTTCAGTTTAGCCATGTATTGTATGAGTGTATTAGTCTAAGCAGTGAGAATCTTTT
CTATGCCTCTATTCCAGCAAAAAGTAGAAGTATCAAATAAAAAGGGCAACTTTTAAAATATTAAGCCTGAAGACT
TCTAAAAAGACAAGAAACATGGCCTAAATAACCAACATAGATTTACATAGTAAGTTTCACACTACCTTATTACCA
AAAGCAAACACCTCTTACTTTTAACTACATTATCATGTATATCTATTGTATGCTGGTCTTTACTTTTTTGCCAAAA
TCAACATATAATGAAGAGATGCCTTTGTTTGATGAGATTCAAACCTTGATGCTATGCTTTAAATAAACTCAGTAC
TTTTAGAAACATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 185

MVIRVYIASSSGSTAIIKKKQDVLGFLEANKIGFEEKDIAANEENRKWMRENVPENSRPATGYPLPPQIFNESQY
RGDYDAFFEARENNAVYAFLGLTAPPGSKEAEVQAKQQA

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FIGURE 186

ATGGCGGAGCGCGGGTACAGCTTTTCGCTGACTACATTACAGCCCGTCTGGTAACTTGTCCAGATTGAATATGCT
TIGGCTGCTGTAGCTGGAGGAGCCCCGTCCGTGGGAATTAAAGCTGCAAATGGTGTGGTATTAGCAACTGAGAAA
AAACAGAAATCCATTCTGTATGATGAGCGAAGTGTACACAAAGTAGAACCAATTACCAAGCATATAGGTTTGGTG
TACAGTGGCATGGGCCCCGATTACAGAGTGCTTGTGCACAGAGCTCGAAAAGTCTCAACAATACTATCTTGTG
AAGAACCCATTCCCTACAGCTCAGCTGGTACAGAGAGTAGCTTCTGTGATGCAAGAATATACTCAGTCAGGT
TCGTCCATTTGGAGTTTCTTTACTTATTTGTGGTTGGAATGAGGGACGACCATATTTATTTTCAGTCAGAT
CTGGAGCTTACTTTGCCTGGAAAGCTACAGCAATGGGAAAGAACTATGTGAATGGGAAGACTTTCTTGAG
AAGATATAATGAAGATCTGGAACCTGAAGATGCCATTCATACAGCCATCTTAACCCTAAAGGAAAGCTTTGAA
AATGACAGAGGATAACATAGAAGTTGGAATCTGCAATGAAGCTGGATTTAGGAGGCTTACTCCAAGTAA
AGGATTACTTGGCTGCCATAGCATAAACAATGAAGTGACTGAAAAATCCAGAATTCAGATAATCTATCTAC
CATGTTTTAAAGTATGTTTTGTTTTGCAGACTTTTGCATACTTATTTCTACATGGTTTAAATCGACTGTT
AAATGACACTTATAAATCCTAATAAACTGTAAACCC

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FIGURE 187

MAERGYSFSLTTFSPSGKLVQIEYALAAVAGGAPSVGIKAANGVVLATEKKQKSILYDERSVHKVEPITKHIGLV
YSGMGPDYRVLVHRARKLAQQYYLVYQEP IPTAQLVQRVASVMQEYTQSGGVRPFGVSLLICGWNEGRPYLFQSD
PSGAYFAWKATAMGKNYVNGKTFLEKRYNEDLELEDAIHTAILTLKESFEGQMTEDNIEVGICNEAGFRRLTPTE
VKDYLAIA

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FIGURE 188

GCGATTTCGGTGGCACGTGGAGCCACGGCGTGGGAGTAGGGGGCTGAAGGCAGGCAGCAGCGGCCAGGGCCGCCCT
CTGCTAGCCGCTTGGGTCTCGGGATACCCCGTTTCTTCTGTAGGTGTGGGACGTGCGTGCGGCCGAGATGGACAC
TCCCCCGCTCTCGGATTTCGGAGTCGGAATCCGATGAATCCCTTGTCACAGACAGAGAGTTGCAGGATGCGTTTTTC
CCGAGGGCTTCTGAAGCCAGGCCTCAATGTCGTGCTAGAGGGGCCGAAGAAGGCCGTGAACGACGTGAATGGCCT
GAAGCAATGTTTGGCAGAATTCAAGCGGGATCTGGAATGGGTGAAAGGCTCGATGTGACACTGGGTCCGGTACC
GGAGATCGGTGGATCTGAGGCGCCAGCACCTCAGAACAAGGACCAGAAAGCTGTTGATCCAGAAGACGACTTCCA
GCGAGAGATGAGTTTCTATCGCCAAGCCCAGGCCGAGTGCTTGCACTTACCCCGCCTCCATCAGCTCAAAGT
CCCTACGAAGCGACCCACTGATTATTTTGCAGAAATGGCCAAATCTGATCTGCAGGTGCAGAAGATTCGACAGAA
GCTGCAGACTAAACAGGCTGCCATGGAGAGGTCTGAAAAAGCTAAGCAACTGCGAGCACTTAGGAAATACGGGAA
GAAGGTGCAAACGGAGGTTCTTCAGAAGAGGCAGCAGGAGAAAGCCCATATGATGAATGCTATTAAGAAATATCA
GAAAGGCTTCTCTGATAAACTGGATTTCTTGGAGGAGATCAGAAACCTCTGGCACAGCGCAAGAAGGCAGGAGC
CAAAGGCCAGCAGATGAGGAAGGGGCCAGTGCTAAACGACGGTATAAAAACCAGAAGTTTGGTTTTGGTGGAAA
GAAGAAAGGCTCAAAGTGGAACACTCGGGAGAGCTATGATGATGTATCTAGCTTCCGGGCCAAGACAGCTCATGG
CAGAGGCCTCAAGAGGCCTGGCAAGAAAGGCTCAAATAAGAGACCTGGAAAACGAACAAGAGAGAAGATGAAGAA
CAGAACACACTAAATAGCATCTTTGAATACAAAGAACCAAGAAAAAGGAATGAAGACTCGCAATTTACGACACA
CTTTGATCCCTTCTGTTGGTGTGATGTTGTAAACATTTCTTTCAATAAACTAAAGAAAAATTATTAAAGGAACAC
ATACCTTTGGTTAAATAGTCTAGACTAAAAGATTGAGAAGTTACTTTCCATTGCTATCTATTGATAATTTAGACA
TTGAGTTCAAATTGCCTTCATTTTATGATAAATAATGATTTAACTGAAAA

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FIGURE 189

MDTPPLSDSESESLVTDRELQDAFSRGLLKPGLNVLLEGPKKAVNDVNLKQCLAEFKRDLEWVERLDVTLG
PVPEIGGSEAPAPQNKDQKAVDPEDDFQREMSFYRQAQAAVLAVLPRLHQLKVPTKRPTDYFAEMAKSDLQVQKI
RQKLQTKQAAMERSEKAKQLRALRKYGKKVQTEVLQKRQQEKAHMMNAIKKYQKGFSDKLDFLEGDQKPLAQRKK
AGAKGQQMRKGPSAKRRYKNQKFGFGGKKKGSKWNTRESYDDVSSFRAKTAHGRGLKRP GKKGSNKRP GKRTREK
MKNRTH

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FIGURE 190

GCCGCGCCGGCTCTGGGCACTCAGCATCGTTTTCTTTTTCTCCGCTGGAGCAGCTATGGCGGCGGTGAAGACCCT
GAACCCCAAGGCCGAGGTGGCCCGAGCGCAGGCGGCGCTGGCGGTCAACATCAGCGCAGCGGGGTCTGCAGGA
CGTGCTAAGGACCAACCTGGGGCCCAAGGGCACCATGAAGATGCTCGTTTTCTGGCGCTGGAGACATCAAACCTTAC
TAAAGACGGCAATGTGCTGCTTCACGAAATGCAAATTCAACACCCAACAGCTTCCTTAATAGCAAAGGTAGCAAC
AGCCCAGGATGATATAACTGGTGATGGTACGACTTCTAATGTCCTAATCATTGGAGAGCTGCTGAAACAGGCGGA
TCTCTACATTTCTGAAGGCCTTCATCCTAGAATAATCACTGAAGGATTGGAAGCTGCAAAGGAAAAGGCCCTTCA
GTTTTTGAAGAAGTCAAAGTAAGCAGAGAGATGGACAGGGAAACACTTATAGATGTGGCCAGAACATCTCTTCG
TACTAAAGTTCATGCTGAACCTTGACAGATGTCTTAACAGAGGCTGTAGTGGACTCCATTTTGGCCATTAAAAAGCA
AGATGAACCTATTGATCTCTTCATGATTGAGATCATGGAGATGAAACATAAATCTGAAACTGATACAAGCTTAAT
CAGAGGGCTTGTTTTGGACCACGGAGCACGGCATCCTGATATGAAGAAAAGGTGGAGGATGCATACATCCTCAC
TTGTAACGTGTCATTAGAGTATGAGAAAAACAGAGTGAATTCCTGGCTTTTTTACAAGAGTGCAGAAGAGAGAGA
AAAACCTCGTGAAAGCTGAAAGAAAATTCATTGAAGATAGGGTTAAAAAATAATAGAACTGAAAAGGAAAGTCTG
TGGCGATTTCAGATAAAGGATTTGTTGTTATTAATCAAAGGGAATTGACCCCTTTTCTTAGATGCTCTTTCAA
AGAAGGCATAGTCGCTCTGCGCAGAGCTAAAAGGAGAAATATGGAGAGGCTGACTCTTGCTTGTGGTGGGGTAGC
CCTGAATTCCTTTGACGACCTAAGTCTTGACTGCTTGGGACATGCAGGACTTGTATATGAGTATACATTGGGAGA
AGAGAAGTTTACCTTTATTGAGAAATGTAACAACCCCTCGTTCTGTCTACATTATTGATCAAAGGACCAAATAAGCA
CACACTCACTCAGATCAAAGATGCAGTGAGGGACGGCTTGAGGGCTGTCAAAAATGCTATTGATGATGGCTGTGT
GGTTCCAGGTGCTGGTGCCGTGGAAGTGGCAATGGCAGAAGCCCTGATTAAACATAAGCCCAGTGTAAGGGCAG
GGCACAGCTTGGAGTCCAAGCATTGCTGATGCATTGCTCATTATTCCCAAGGTTCTTGCTCAGAACTCTGGTTT
TGACCTTCAGGAAACATTAGTTAAAATTCAAGCAGAACATTGAGAATCAGGTCAGCTTGTTGGGTGTGGACCTGAA
CACAGGTGAGCCAATGGTGGCAGCAGAAGTAGGCGTATGGGATAACTATTGTGTAAAGAAACAGCTTCTTCACTC
CTGCACTGTGATTGCCACCAACATTCTCTTGTTGATGAGATCATGCGAGCTGGAATGTCTTCTCTGAAAGGTG
AATTGAAGCTTCCTCTGTATCTGAATCTTGAAGACTGCAAAGTGATCCTGAGGATTACAGCTGTGGAATTTTTGT
CCAAGCTTCAAATAATTTTGAAGAAATTTTCCCATATGAAAAAAGGAGAGAACACTGGCATCTGTTGAAATTTG
GAAGTTCTGAAATTATAGTATTTTAAAAATTGCACTGAAGTGATACACATAAAGCAGGTCTTTTATCCAGTGA
ACAGGATGTTTTGCTTTAGCAGCAGTGACATAAAATTCCATGTTAGATAAGCATATGTTACTTACCTTGTTATTA
AATATTTCTTGAAAAGCAAATTTTAATGGTTAATTTTATGTGGACGTATGTTAAATTATCCAACTACCCATTG
TTAAGCATTGTTTTTAAATTTTATGCTAATATAAATGCTCAAGTAATTTAAATATTGAAAGCATCCCTGTT
GGTATAAATTTCTGAGTAAATGCATTGGATCAGTTGGACTTTGAACGCCCTTTGAAATGGCTTTGCTAAAATGCT
CCCCCCACAAAGTTGTAGGAAATGGGAAGAGGAGTCAACTAGAGGCAAGGGAGTTGAGAGAGCTGCAACTGTAAA
GGGCAAGAACAGGCAGAGGTAAAAAGATGATGGAAGGTGTGGTGACTAAGGGCCACGGTTATTGGGTGAAATTTG
AGATGTAGGCCAACTGTATTTTCAAGCTTCTGAACTTAAGGCAAAATATTATCGCAAAGTCTCTAGCGTCATAT
TTTTCTCACCCAAATTACGTTTCCACGAGTTATTATATATAGTTGGTCTATCTCTGCAGTCCTTGAAGGTGAAGT
TGTGTGTTACTAGGCTGTGTTTTGGGATGTCAGCAGTGGCCTGAAGTGAGTTGTGCAATAAATGTTAAGTTGAAA
CCTCAAAAAAAA

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FIGURE 191

MAAVKTLNPKAEVARAQAALAVNISAARGLQDVLRTNLGPKGTMKMLVSGAGDIKLTKDGNVLLHEMQIQHPTAS
LIAKVATAQDDITGDGTTSNVLIIGELLKQADLYISEGLHPRIITEGFEEAKEKALQFLEEVKVSREMDRETLID
VARTSLRTKVHAELADVLTEAVVDSILAIKKQDEPIDLFMIEIMEMKHKSETDTSIRGLVLDHGARHPDMKKRV
EDAYILTCNVSLEYEKTEVNSGFFYKSAEEREKLVKAERKFIEDRVKKIIEKRVKCGSDSKGFVVINQKGIDPF
SLDALSKEGIVALRRARRNMERLTLACGGVALNSFDDLSPDCLGHAGLVYEYTLGEEKFTFIEKCNNPRSVTLL
IKGPNKHTLTQIKDAVRDGLRAVKNAIDDGCVVPGAGAVEVAMAEALIKHKPSVKGRAQLGVQAFADALLIIPKV
LAQNSGFDLQETLVKIQAEHSESGQLVGVDLNTGEPMVAAEVGVWDNYCVKKQLLHSCVTIATNILLVDEIMRAG
MSSLKG .

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FIGURE 192

GC GCGCCGGCTCTGGGCACTCAGCATCGTTTCTTTTCTCCGCTGGAGCAGCTATGGCGGCGGTGAAGACCCCT
GAACCCCAAGGCCGAGGTGGCCCGAGCGCAGGCGGCGCTGGCGGTCAACATCAGCGCAGCGCGGGGTCTGCAGGA
CGTGCTAAGGACCAACCTGGGGCCCAAGGGCACCATGAAGATGCTCGTTTCTGGCGCTGGAGACATCAAACCTTAC
TAAAGACGGCAATGTGCTGCTTCACGAAATGCAAATTCAACACCCAACAGCTTCCTTAATAGCAAAGGTAGCAAC
AGGATGATATAACTGGTGATGGTACGACTTCTAATGTCTAATCATTGGAGAGCTGCTGAAACAGGCGGA
ACATTTCTGAAGGCCCTTCATCCTAGAATAATCACTGAAGGATTGAAGCTGCAAAGGAAAAGGCCCTTCA
TGGGAAGAAGTCAAAGTAAGCAGAGAGATGGACAGGGAAACACTTATAGATGTGGCCAGAACATCTCTTCG
TAAAGTTCATGCTGAACCTTGACAGATGTCTTAACAGAGGCTGTAGTGGACTCCATTTTGGCCATTAAAAAGCA
GAACCTATTGATCTCTTCATGATTGAGATCATGGAGATGAAACATAAATCTGAAACTGATACAAGCTTAAT
GGGCTTGTTTTGGACCACGGAGCACGGCATCCTGATATGAAGAAAAGGTGGAGGATGCATACATCCTCAC
ACGCTGTCATTAGAGTATGAGAAAACAGAAGTGAATTCTGGCTTTTTTACAAGAGTGCAGAAGAGAGAGA
CTCGTGAAAGCTGAAAGAAAATTCAATTGAAGATAGGGTTAAAAAATAATAGAACTGAAAAGGAAAGTCTG
GATTCAGATAAAGGATTTGTTGTTATTAATCAAAAGGGAATTGACCCCTTTTCTTAGATGCTCTTTCAA
AAGGCATAGTCGCTCTGCGCAGAGCTAAAAGGAGAAATATGGAGAGGCTGACTCTTGCTTGTGGTGGGGTAGC
CTGAATTCCTTTTGACGACCTAAGTCTGACTGCTTGGGACATGCAGGACTTGTATATGAGTATACATTGGGAGA
AGAGAAGTTTACCTTTATTGAGAAATGTAACAACCCCTCGTTCTGTACATTATTGATCAAAGGACCAAATAAGCA
CACACTCACTCAGATCAAAGATGCAGTGAGGGACGGCTTGAGGGCTGTCAAAAATGCTATTGATGATGGCTGTGT
GGTTCAGGTGCTGGTGCCGTGGAAGTGGCAATGGCAGAAGCCCTGATTAAACATAAGCCCAGTGTAAGGGCAG
GGCACAGCTTGGAGTCCAAGCATTGCTGATGCATTGCTCATTATTCCCAAGGTTCTTGCTCAGAACTCTGGTTT
TGACCTTCAGGAAACATTAGTTAAAATTCAAGCAGAACATTGAGAATCAGGTCAGCTTGTTGGGTGTGGACCTGAA
CACAGGTGAGCCAATGGTGGCAGCAGAAGTAGGCGTATGGGATAACTATTGTGTAAAGAAACAGCTTCTTCACTC
CTGCACTGTGATTGCCACCAACATTCTCTTGTTGATGAGATCATGCGAGCTGGAATGTCTTCTCTGAAAGGTTG
AATTGAAGCTTCCTCTGTATCTGAATCTTGAAGACTGCAAAGTGATCCTGAGGATTACAGCTGTGGAATTTTTGT
CCAAGCTTCAAATAATTTTGAAGAAATTTTCCCATATGAAAAAGGAGAGAACTGGCATCTGTTGAAATTTG
GAAGTTCTGAAATTATAGTATTTTAAAAATTGCACTGAAGTGATACACATAAAGCAGGTCTTTTATCCAGTGA
ACAGGATGTTTTGCTTTAGCAGCAGTGACATAAAATTCCATGTTAGATAAGCATATGTTACTTACCTTGTTATTA
AATATTTCTTGAAAGCAAATTTTAAATGGTTAATTTTATGTGGACGTATGTTAAATTATCCAACTACCCTATTG
TTAAGCATTGTTTTTAAATTTTATGCTAATATAAATGCTCAAGTAATTTAAATATTGAAAGCATCCCTGTT
GGTATAAATTTCTGAGTAAATGCATTGGATCAGTTGGACTTTGAACGCCCTTTGAAATGGCTTTGCTAAAATGCT
CCCGCCACAAAGTTGTAGGAAATGGGAAGAGGAGTCAACTAGAGGCAAGGGAGTTGAGAGAGCTGCAACTGTAAA
GGGCAAGAACAGGCAGAGGTAAAAAGATGATGGAAGGTGTGGTGACTAAGGGCCACGGTTATTGGGTGAAATTTG
AGATGTAGGCCAACTGTATTTTCAAGCTTCTGAACTTAAGGCAAAATATTTCATCGCAAAGTCTCTAGCGTCATAT
TTTTCTACCCAAATTACGTTTCCACGAGTTATTATATATAGTTGGTCTATCTCTGCAGTCCTTGAAGGTGAAGT
TGTGTGTTACTAGGCTGTGTTTTGGGATGTCAGCAGTGGCCTGAAGTGAGTTGTGCAATAAATGTTAAGTTGAAA
CCTCAAAAAAAA

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FIGURE 193

MAAVKTLNPKAEVARAQAALAVNISAARGLQDVLRTNLGPKGTMKMLVSGAGDIKLT KDGNVLLHEMQIQHPTAS
LIAKVATAQDDITGDGTTSNVLIIGELLKQADLYISEGLHPRIITEGFEEAKEKALQFLEEVKVSREMDRETLID
VARTSLRTKVHAELADVLTEAVVDSILAIAKKQDEPIDLFMIEIMEMKHKSETDTS LIRGLVLDHGARHPDMKKRV
EDAYILTCNVSLEYEKTEVNSGFFYKSAEEREKLVKAERKFIEDRVKKI IELKRKVC GDS DKGFVVINQKGIDPF
SLDALSKEGIVALRRAKRRNMERLTLACGGVALNSFDDLSPDCLGHAGLVYEYTLGEEKFTFIEKCNNPRSVTLL
IKGPNKHTLTQIKDAVRDGLRAVKNAIDDGCVVPGAGAVEVAMAEALIKHKPSVKGRAQLGVQAFADALLIIPKV
LAQNSGFDLQETLVKIQAEHSESGQLVGVDLNTGEPMVAAEVGVWDNYCVKKQLLH SCTVIATNILLVDEIMRAG
MSSLKG

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FIGURE 194A

GGCCCCAATGAGTGGCACACAGTCTACTATCACCGACAGGTTTCCCCTCAAAAAACCTATAAGGCATGGAAGTAT
TTTGAACCGAGAGTCACCAACAGATAAGAAGCAGAAAGTTGAGCGCATTGCATCACATGATTTTGACCCACAGA
TAGCTCCTCCAAGAAGACAAAGTCTAGTTCAGAGGAGAGTAGATCCGAGATATATGGTCTTGTTACAGCGTTGCGT
AATCATCCAGAAAGATGACAATGGATTTGGGCTGACGGTCAGTGGAGACAATCCAAGTCTTCGTACAGTCTGTCAA
AGAAGATGGAGCAGCCATGCGGGCTGGAGTACAGACAGGTGATCGAATCATCAAGGTGAATGGAACCTCTGGTGAC
TCATTCAAAATCATCTGGAGGTGGTGAAGCTAATCAAATCTGGTTCCTATGTAGCTCTCACTGTTTACGGGACGCCC
ACCTGGGTGCGCCCCAGATTCCACTTGCCGACTCTGAAGTAGAGCCGTCAGTCATTGGACATATGTCTCCCATCAT
GACATCTCCTCATTACCTGGAGCATCTGGGAATATGGAGAGAATCACTAGTCTGTGCTCATGGGGGAGGAAAA
CAATGTGGTTCATAACCAGAAAGTAGAAATTCTGAGAAAAATGTTACAGAAAGAACAGGAACGGCTACAGTTATT
GCAGGAAGATTACAACCGAACACCTGCCCAAAGATTGCTAAAAGAGATCCAAGAGGCCAAGAAACACATTCTCTCA
GCTGCAAGAGCAGTTATCCAAGCCACAGGCTCTGCTCAGGATGGAGCTGTAGTTACACCTCCAGACCTTTAGG
GGACACCCTAACAGTCAGTGAGGCAGAAACAGATCCTGGAGATGTACTGGGCAGGACTGACTGTAGCAGTGAGAGA
TGCTTCTCGGCCCAGTAGTGACAATGCAGATAGTCCCAAGAGTGGCCCAAAGAGAGAATTTATCTAGAGGAAAA
CCCAGAGAAAAGTGAACAATTCAGGACACTGACACTCAATCACTTGTGCGGAAGTCCCTCAACCCGTATAGCACC
TCATATTATTGGAGCAGAAGATGATGATTTTGGTACTGAACATGAACAGATCAATGGACAGTGCAGCTGTTTCCA
GAGCATTGAATTACTAAAATCTCGCCCGCTCATTGGCTGTTTTCTTACACCATGTAGTTTACAATTTGACCC
TGCGACTTTGCTCTGTTATCTCTATTACAGCCTGTATAAACATACCAATTCCAAAGAACTCGTCGCATCTTCCT
TGAGTTTCATCAGTTCTTTCTAGATCGATCAGCACACCTGAAAGTTTCTGTTTCTGATGAAATGTCTGCAGATCT
AGAAAAGAGAAGACCTGAGCTCATTCTGAGGATCTGCATCGCCACTATATCCAACTATGCAAGAAAAGAGTCCA
TCCAGAAGTTCAAAGGCACCTTAGAAGATTTTCGGCAGAAACGTAGTATGGGACTGACCTTGGCTGAAAGCGAGCT
GACTAACTTGATGCAGAGCGAGACAAGGACCGATTGACTTTGGAGAAGGAGCGGACATGTGCAGAACAGATTGT
TGCCAAAATTGAAGAAGTATTGATGACTGCTCAGGCTGTAGAGGAAGATAAGAGCTCCACCATGCAGTATGTTAT
TCTCATGTATATGAAGCATTGGGAGTAAAAGTGAAGAGCCTCGAAATTTGGAGCACAACGGGGTTCGGATTGG
ATTTCTTCCCAAAATCAAGCAAAGTATGAAGAAAGATAAAGAAGGGGAAGAAAAAGGGAAGCGAAGAGGATTCCC
CAGCATCTGGGACCCCCACGGAGACCAAGCCGTATGACAACAGTGCAATTGGCAGAGCCATGGAACCTACAGAA
GGCGCGCCACCCTAAGCACTTATCCACACCCTCATCTGTGAGTCTTGAACCTCAGGACTCTGCCAAGTTGCGCCA
GAGTGGGTTAGCAAAATGAAGGAACAGACGCTGGATACCTGCCTGCCAATTCCATGTCTTCTGTAGCTTCAGGGGC
CTCTTTTTTCCAGGAAGGAGGGAAAGAGAATGATACAGGATCAAAGCAAGTTGGAGAAACATCAGCACCTGGAGA
CACCTTAGATGGCACACCTCGTACTCTCAATACTGTCTTTGATTTCCACCACCTCCATTAGACCAAGTGCAGGA
GGAGGAATGTGAAGTAGAAAGGTGACTGAACATGGGACACCAAAGCCCTTTCGAAAGTTTGACAGTGTAGCTTT
TGGAGAAAGTCAAAGTGAGGATGAACAATTTGAAAATGACTTAGAGACAGACCCACCAACTGGCAGCAGCTTGT
TAGTCGAGAAGTGTACTGGGACTAAAACCTTGTGAAATCAAAGACAGGAAGTGATTAATGAATTGTTCTACAC
TGAAAGAGCTCATGTTTGAACACTGAAGGTTCTTGATCAAGTGTCTATCAGCGAGTATCCAGAGAAGGAATTCT
GTCACCCTCAGAGCTACGGAAAATTTTTTCAAACCTTGGAAGATATTCTTCAACTTCATATTGGATTGAATGAACA
AATGAAGGCTGTTTCGAAAGAGAAATGAGACCTCTGTTATCGATCAGATTGGGGAAGATTGCTGACATGGTTTCAG
CGGACCAGGAGAGGAGAAATTGAAACATGCTGCTGCTACCTTTTGCAGTAACCAACCTTTGCCCCTGGAAATGAT
CAAATCTCGTCAGAAAAGGATTCTCGATTTCAGACTTTTGTGCAAGATGCTGAAAGTAATCCACTGTGTCTGTCG
TCTTCAACTGAAGGATATTATTCCCACTCAAATGCAAAGGCTTACTAAGTACCCACTTCTGTTGGATAATATTGC
CAAATACACAGAATGGCCAACAGAAAGGGAGAAGGTGAAGAAAGCTGCAGATCACTGTCTGTCAGATCTTAAATTA
TGTAATCAGGCTGTCAAGGAGGCAGAAAACAAGCAGCGCTAGAAGATTATCAGCGTCGCTTGATACCTCCAG
CCTGAAGTTGTGAGAGTACCCAAATGTTGAAGAGCTCAGGAATTTGGATTTAACAAAAGGAAGATGATTTCATGA
AGGGCCATTGGTTTGAAGGTGAATAGAGATAAACTATTGATTTATACAGTTGCTGCTGGAAGACATTCTTGT
ATTGTTACAAAAGCAGGATGATAGACTGGTTTTAAGGTGTCATAGTAAGATTCTGGCATCTACAGCTGATAGCAA
ACACACGTTTAGCCCTGTCAATTAAGTTGAGTACAGTGTGGTTTCGACAAGTGGCAACAGATAACAAAGCTTTATT
CGTCATTTCCATGTGACACAATGGCGCTCAGATTTATGAACTGGTGGCACAGACAGTTTCTGAAAAGACTGTCTG
GCAGGACCTAATCTGTGCGATGGCTGCATCAGTGAAGGAGCAATCCACAAAGCCAATTCCATTACCACAGTCAAC
ACCTGGCGAAGGAGATAATGATGAAGAAGATCCTTCAAATTAAGAGAGGAGCAGCATGGCATTTCAGTCACTGG
TTTGCAGAGTCCAGACAGAGATTGGGATTAGAATCTACCTTAATATCGTCAAAACCTCAGTCTCATTCACTGAG

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FIGURE 194B

TACCTCTGGGAAATCAGAGGTACGTGATCTGTTTGTGGCTGAGAGACAGTTTGCAAAGGAACAACATACAGATGG
GACACTAAAGGAAGTTGGAGAAGATTATCAAATCGCAATCCCAGATTACACCTGCCTGTCTCAGAAGAACGGTG
GGCATTGGATGCACTAAGAAATTTGGGTTTGTGAAGCAGTTGCTGGTGCAACAGCTAGGTTTGAAGTGAAGAG
CGTTCAGGAAGACTGGCAACATTTCCCAAGATACAGAACAGCCTCTCAGGGGGCCGACAGACAGAGTGTATCCA
GAACTCTGAAAATATTAAGGCCTATCATTCTGGTGAAGGACATATGCCCTTTAGAACTGGAAGTGGTGACATTGC
AACTTGTACAGTCCACGGACTTCAACTGAATCTTTTGCTCCACGGGATTGAGTGGGACTGGCACCCAGGATAG
CCAGGCAAGTAACATTTTAGTAATGGACCACATGATTATGACCCAGAGATGCCTACCATGGAGCCAGAAGGGGG
TCTTGATGACAGTGGAGAGCACTTTTTTGATGCCCCGTGAAGCACATAGTGATGAGAATCCATCAGAAGGTGATGG
AGCAGTTAACAAGGAAGAGAAGGATGTTAATTTACGCATCTCAGGAACTATTTGATCCTTGATGGCTATGACCC
AGTGCAGGAGAGTTCACAGATGAGGAGGTTGCTTCCTCACTTACCCTGCAGCCCATGACAGGCATCCCTGCTGT
GGAATCCACCCACCAGCAGCAACATTCTCCTCAGAATACTCACTCCGATGGGGCAATTTACCATTACCCCCGA
ATTTCTGGTCCAGCAGCGCTGGGGAGCTATGGAGTATTCTGTTTTGAGATCCAGAGTCCCTCCTCTGTGCAGA
TTCACAGAGCCAGATCATGGAGTACATTATAAGATAGAGGCTGACCTTGAACACTTAAAGAAGGTGGAGGAAAG
TTACACCATTCTTTGCCAAAGGCTGGCTGGATCAGCCCTCAGACAAAGCACTCAGATAAAAGTTAGAGCCGCAT
GTCCTGGAGGTGACTGCAGGTTGTTGGATTGGAGTATCGGCCGTGTCTCACCACATCCTGGCTCCAGTGTGGAT
GCAGAGAGAGTGTGACAGAGGATCTGCCTGTGAACCACCTGGGATTAGTCAAGTCCCAAGGTGCCAGAGTGGGA
CTAGTTCTTACAGTGTGGCAGCTGCACTAATCTGTTTGTGAGGGAATATCCATTCCCTCACTCTACTCTCCTCA
CTATCGGAAATTCATTTTGATTGAGAATAAAACCAAATGTATAGAGCTTTGGGTGTAGGATATGAAATTGTACT
TAGATTTAAGAAAAAGAGAAAAATCAGATGTATTTATTTGACTTCATTCCGTATTTGAAAGCACATTTTAATTTTT
ATTTGCCTTGTTTTGTTTTAATTGAGTAGTGAGAGTTTTAGACCTTTGTCTTTAGTACACCCAAGGATCAACTGC
TCCTGAAGCAAAGAGGTGAGGATGGAGTATGCAGAAGTTGGGTAGAGAGGTTAAGAAGAGGAGGAAGTGAGACGG
GGAAGGGAGGAGCACCTTGCTTCACTATACAGTATTCCAAGCTCTCTGCTGTCCAGTAGGCTGCTTCTCTGAGGG
TCACCTCAAAGGTATGCTATGCCGTGTGGCTCTTATGTGCCAGGTGGTGTGGTCAGAGAGTGGATGGGCTTCCT
CCCCCCTGAGGCAAGCACCTCTTCTCTGTAGCTGGGATCAACCACAATTAATAGGAATCCTCAACATACTAAAT
AGCAGGCACCTTGAAAAATGGGTGTGTTTTCTTCCATTGTCGTCTTTCTATTGAGGGTTGGGATTTGGGTGGGAGA
GGAAAGCAAATTTTATTTTCTTGACTATAAATTTGTTATTCTTGGTATCATTTTATTTTATAATTATACATTAG
ACATTGGCACTTGTGTAAACTGTCCCTGCAGATTGAGCAGGAAGTAAAAACAAATGGAAATGCTTCGGATAGTG
GCAGGGGTGGGGTTGCTAAGGAAAGGGTGGGATGGGAGTGGGTAAAGAGTTTGGGAAGGTTATCTAACTGAATC
ACTACTGAGTTGAATCATGGCTATCATTAGCCACAGGTACTGCTGATTATAAGGCCAGTAAATTTTAGTACCTG
GAGTTTGACTCTAATTTTTGCACTGATGGTGCCAAAGGGCCCTGAGTCAAAGGATAGCCAAGGGTGGAGTGGGA
AAAAGATATGGTGAAGGCAGAAGTGTACACACAGCTCCAGAAGCACGTCTCTGACTTCACTGCCGCAGCTCTT
TCCACACGGGGCCGTGATTGACCCTAAAAATTCAGACCAGCACATACACTGGACACTGCAGGCAAGGTGTTGGT
AACTGCCTGCTCTAGGATGAATAGTAGCGTTAGCAGCACCTACAGAGGTAAGTTTCAAGATTGTAATTTGAGA
ACTCCTCAATTATATTGACTTTCTTTGGTTTTCTTGTGCATTAGGTATATATTTTTTGAAGTATTTTTGCCAA
CTAAATGAAGTCTGTAAATTCGTTAATAAACAAGGAGTTCATCCGTTGCTCACATCTTTCATTGGTGCCCTCT
GAACTCTGTGGGTGCTAGGATGTAATTTAATGCTTCCCTGCAGTCCAAAGATGATTTTTTACCACAAATGGT
AAGGGATGCCACCTACTTTTATAAACACCACTGCAACTTAACAAGTTTATTTATCTATGTCCAGATTTCTGTTT
CTGTCCTAAATTGATCTGTGTTTTTAGGTGGATCACTTGGATCTTTAGACCTCATCTATAAATTGAAATTATAT
TTTTAGTCATAAGCCAAGTACAATCTAACTCAGAATGGGATTAAAAATTTTGAAGCAGAAGCTAATATATAAAT
GAAGTTTGGGATTTGGAATTTCTGTATCTCTTAGGAGGAACAAGTAAAAACCAAATGGTTACATTGTGCTGCTA
GAAATAATGTCAATCTCAATTAAGGGTTACACCTGTAGCCACTTGACACTAACACCATCGAGGGCAATTAATC
AGGAGAAAAGTAAATATAAAAACTTTGCTCTTAACGTACACACTACAGGGTAATTATGTAATCTCTAGCACTC
AATTAAGAAGCTTGATAGGTAGCAAAATTTAGTTTCTCTAGTTTCAAGCCAGTGTCTTGTCTTAGTAATTTATTTG
CTTTCCCTGCAGTTCAATTTCTCCTTGGAATCTAACAGGACTAACTGGAAAAATACTTTGACCATAGCTCTAGT
ACTTCCAAATAAATTCATATCTAGATTTTCAAACAAAGCCCCAAGATGAAGTCTAATCTGAAAATATCTCACAA
TTTTTGAATGTTCTTTTTATCTTACCGACCTAACTTCTTTTTCCCTCCCACTTGGCCTCCACACGTTCCATT
TCATTTTGGCCATTATAGTCACATCCGTTTGACTTTGGTTGTGACATCTTCTTTTCAAGGATGATGGAATTAGATG
CAGTCTGTCTTTGAGTGAGACTGGTCACCATCAGAGGAGTTTTTTCTAAGTGACGTGACTAGAAGTTGAAATCTA

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FIGURE 194C

CTTCCCTGCTAAAGGGCACAGGGGTGGTGTACAAAGAAAGCTACCTTCCCAGAGCAAGCAGGCTGCATTTTAGCT
ATGGAAGTGACCTGCTGTGACACTGTGCTCTCTTCTGTGGGCTTAATGGTTCCTTTGCTATGAAGTGGCAAATTA
CATGTAGAGTGTCTCCTTTCCTTTTTCAGAGAACAGTTAATCAAGGCAAATCAGCAAGCCCCCAAAGTGTGTAATT
TAACATCATGATTACCACCTTCGAAGCTATATATTTTTGCATACTTTAAAAATCACCTAACTTGGACTGCTTGAATT
ACATTGGCTTTTAGAACCAGAAATTGTAAGTATGTATTGTATTTTCATGGGAGGTATATTTTATGAGCTTTTGGCT
TTCTTTTTTCCCACAGCAACTGCCAATGAAGGATGAATCCCTTTTTTAAAAAGTTGTTGTTGTTGTTGTTTATTT
GATTTTGAGTTAGGAGGGATAATAGAGAAGTCCATTTAAAAATTATTTTATAGAAGCTAAAGAAAGTAATTATGCT
TCCTGTGAATTGTCTTTTACTGGCATCTTTGTTTTCTCTTTGATGTAGTAAATTTGGTGTAAATACGTGGGGCT
TCCATATTTCAAAGTGGAAGCTTTCTTCTCTGAAGTCGATATATGGTTTTGAATTACTAGAGCTTTGGTCAGTAT
TTCCTTCCCTATATGTACAGAGGGCACCCTGAGAAGTGGTGCATAGGACCTCAAATAACAAAATTAGCAGGG
CCTCACAGTCAGCTTCCTCATGGCTAGTTTTTCCCCCTTATATTACAATTTTTGTTTTATAAGTCATTTTTTTCC
TGATATTTCCACCCTTTTTCAGAGTCATCTACAAAATTTTTCTTTCCCTCAAGAAAAGAGTTCCTTTTGCCTTATT
CCTTATGCCTTCCCCACTGGTATTGAGGGTTTTGATAATAAATTGGTAGGAAAAAAAGTACCTCCTAGAAGGAA
GCCTTCCCCACCATTTCCAGGTGCCAAGTCTAAGCAGATATATCCAAAAATGGTAAGTGTATGTGCACACTG
TTGGTTATTTTTAATAAGCCTCTTCTACTAGAACATTTTATTTTCTTGTTCACCATAACAATCATGTACTCTTT
AACAGAAATTGCTTTTTAAAAAATATCTGGAAGTATCTTTAAAAAACTTTATTAATAATCATGTATTTTACTGA
TCACATTTTGAAATGCCTAAAAGACTTTATTGTTCTAATTATCCAGATGTACCTTTGTAAAATAGCTCTTTTATG
AATTAGCTGATAAGGCTGTATGTTTCTGGAACAAAATATTGGTCACTTAAAACTTTCTGTTTTCTGGGGTCTGG
GAAAATAGAAAATAAGATTTCAAATATTAAATAAGCTTAAAGGAACCAAGCATGTGACTTTTACTTTGTATTCTG
GTTGATTTGTCTTGTCCAAGTTATATTAGAAAAGTTGAGGAGTCGAGGAGCCTGTAATTAATTTTCTGTCTAGTG
ACTGTCAGACATCTTCTGCTTATTAGAGCATCCCTAGCAACAAGGCTAAACCTTCATGACAGTGCTGGCAGGTG
GGCTTGCCCTAGCATGTGGGGCAGGTTTGTGTTTTTTTTAATAGCTTTTATTGAGATATTCACATATCATATAATT
CATCCATTTAAAGTGATAAATCAGATGGGTTTTGGTATATTATTGATTTTTAATTGTGGTGAAATATATATATAA
CAAAATTTGCTATTGTAAGTATTTTTAAGTATAAAGTTTCAGTGAGGTAGGCCAGCTTTTATGACGCACCTGAAGA
TAACTTTGGTTTTAATCCTACCCTAAATGAAGCATATGCCTCTATTTTTCTGTCCCCAGTGCTGGGCTTCTTCA
CATACCAACATTTCTGTGCTTTTACCAACAGCATTTTAGCTCAGAAGGCTCGCTTACTTTGGGCATTTGCTGTAT
TTTGGTTTTGAAATACTTGTAATTTGACTTATTCCTTGGGATAATATTTTAGTTTTAGTTCATTCAAGGGCACATT
TGGCTGACGGAGCTAATAAGCGTAATAAAATGCTTAGTAGTTTATACCATCTTTTAGTTAAACATTTTAAAGATT
AAGACTATTCAAATGTACTTTGCGGAAATTAACCTGTTTGTATGCCTGGCTTTGTTTACAAACATATATCTATAT
CTATATATATAGATACAGATACAGATACATATCTGGTGAACAAAGAAATACCTGTACCATTCCCACTTGCTCTT
TGATAGCCACCTCCTAGGAATGGAGACAATAAACTCTGTATTTGCATGTG

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FIGURE 195

MSGTQSTITDRFPLKKPIRHGSILNRESPTDKKQKVERIA SHDFDPTDSSSSKTKSSSEESRSEIYGLVQRCV I I
QKDDNGFGLTVSGDNPVVFVQSVKEDGAAMRAGVQTGDRI IKVNGTLVTHSNHLEVVKLIKSGSYVALTVQGRPPG
SPQIPLADSEVEPSVIGHMSPIMTSPHSPGASGNMERITSPVLMGEENN NVHNQKVEILRKMLQKEQERLQLLQE
DYNRTPAQRLLEKEIQEAKKHIPQLQEQLSKATGSAQDGAVVTPSRPLGDTLTVSEAETDPGDVLGRTDCSSGDAS
RPSSDNADSPKSGPKERIYLEENPEKSETIQD TDTQSLVGSPSTRIAPHIIGAEDDDFGTEHEQINGQCSCFQSI
ELLKSRPAHLAVFLHHVVSQFDPATLLCYLYSDLYKHTNSKETRRIFLEFHQFFLDRSAHLKVSVPDEMSADLEK
RRPELIPEDLHRHYIQTMQERVHPEVQRHLEDFRQKRSMGLTLAESELTKLDAERDKDRLTLEKERTCAEQIVAK
IEEVLMTAQAVEEDKSSTMQYVILMYMKHLGVKVKEPRNLEHKRGRIGFLPKIKQSMKKDKEGEEKGKRRGFPSI
LGPPRRPSRHDNSAIGRAMELQKARHPKHLSTPSSVSPEPQDSAKLRQSGLANEGTDAGYLPANSMSSVASGASF
SQEGGKENDTGSKQVGETSAPGDTLDGTPRTLNTVDFPPPPLDQVQEEECEVERVTEHGTPKPFKRKFD SVA FGE
SQSEDEQFENDLETDPNWNQQLVSREVL LGLKPCEIKRQEVINELFYTERAHVRTLKVL DQVFYQRV SREGILSP
SELRKIFSNLEDILQLHIGLNEQMKAVRKRNETSVIDQIGEDLLTWFSGPGEK LKHAAATFCSNQPF ALEMIKS
RQKKDSRFQTFVQDAESNPLCRRLQLKDI IPTQMORLTKYPLLLDNIAKYTEWPTEREKVKAADHCRQI LNYVN
QAVKEAENKQRL EDYQRRLDTSSLKLSEYPNVEELRNLDLTKRKMIHEGPLVWKVNRDKTIDLYTL LLEDILVLL
QKQDDRLVLRCHSKILASTADSKHTFSPVIKLSTVLVRQVATDNKALFVISM SDNGAQIYELVAQTVSEKTVWQD
LICRMAASVKEQSTKPIPLPQSTPGEGDNDEEDPSKLKEEQHGISVTGLQSPDRDLGLESTLISSKPQSHSLSTS
GKSEVRDLFVAERQFAKEQHTDGT LKEVGEDYQIAIPDSHLPVSEERWALDALRNLGLLKQLLVQQLGLTEKSVQ
EDWQHFP RYRTASQGPQTD SVIQNSENIKAYHSGEGHMPFRGTGTGDIATCYSPTSTESFAPRDSVGLAPQDSQA
SNILVMDHMIMTPEMPTMEPEGGLDDSGEHFFDAREAHSDENPSEG DGAVNKEEKDVNLRISGNYLILDGYDPVQ
ESSTDEEVASSLTLPMTGIPAVESTHQQHS PQNTHSDGAISPTPEFLVQQRWGAMEYSCFEIQSPSSCADSQ
SQIMEYIHKIEADLEHLKKVEESY TILCQRLAGSALTDKHS DKS

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FIGURE 196

GAGITCCAGCAGTCCGCGAGCTGCCGTTCGGCTCCGCGGGGGGGGGCGGGCCGGGCACCCCGGGGCGCGGAGGAGCG
CTCTCGCTTCTCTCCTTCCCCCTGCCGCACTCCGCCGACCCTCCCGCCGGCCCGCGCCGCTGCACTCGCCCT
CTCTCTCGCCCCCGGCAAACCTTTCGGCCCCCTCCCGCCCCCTCGCCCGTTATTCTGTCGTGGCTCAAGCCCCGGCC
ACGCGCCCCCAAGGGCTCCTCCCGACCTCCCGGCCTGCCGCTCCGGCCACTGCGGGATCCAGAAACATGTCGACC
TCTGTCCGCCCTTCTACGATGTCGACTTCTTGTGCAAGACAGAGAAATCCCTGGCCAACTCAACCTGAAC
CTGGACAAGAAGGCGGTGGGGACGCCTGTGGCCGCCGCCCGCCAGCTCGGGCTTCGCGCCGGGATTCTCTC
GCACTCGGCCAGCAACCTGCATGCACTCGCCACCCCGCGCCAGCCCGGCAGCTGCTCGCCCAAGTTC
GCGCGCCGCTAACGGCAGCAGCTGCGGCAGCGCGGCGGCGGCGGTCCGACCTCCTACGGCACCTTAAGGAG
CGGGGGGCGGCGGCACAGCCCTGCTCAACAAGGAGAAACAAATTCGGGACCGCTCGTTTAGCGAGAACGGC
GAGCCAGCACCTCCTGCACCTGCAGCAGCAGCAGAAAGGGGGCGGCGGCTCCAGATCAACTCCACGCGC
GACCGAGCTGTGCCGGCCCTTCGAGGAGAGCGGCACGTGCAAGTACGGCGAAAAGTGCCAGTTTCGCGCAT
TCACAGAGCTGCGCAGCCTGACTCGCCATCCGAAGTACAAGACCGAGCTGTGCCGCACCTTTTACATACCATC
TCTGCCCTATGGGCGCGCTGCCACTTCATCCACAACGCGGACGAGCGGCGGCGCCCGCGCGTTCGGGGGGC
TCGGGGGACCTGCGTGCCTTTTGGCACGCGCGATGCGTTGCACCTGGGCTTCCCGCGGGAGCCGCGGCCCAAG
TTCACACACAGCCTCAGCTTCTCGGGCTTCCCGTCCGGGCCACCATCAGCCCCCGGGCGGCTCGAGTCGCCGCTG
CTGCTCGACAGCCCCACGTGCGGCACGCCGCCGCCGCCCTCCTGCTCTTCGGCCTCGTCTCTCTCTCCGCC
TCTCTCTGTTCTCGGCCTCCGCGGCCTCCACGCCCTCGGGCGCCCCGACATGCTGCGCCTCCGCGGCGGCCGCG
GCTGCGGCCGCTCTGCTGTACGGCACCGGGGGCGCCGAGGACCTGCTGGCGCCGGGGGCCCCGTGCGCGGCCTGC
TCGTGCGCCTCGTGCGCCAACACGCCTTCGCCTTCGGTCCGGAGCTCAGCAGCCTCATCACGCCGCTCGCCATC
CAGACCCACAACCTTTGCCGCGGTGGCCGCCGCCGCTACTACCGCAGTCAGCAGCAGCAGCAGCAGCAGGGCCTG
GCGCCCCCGCGCAGCCGCCGCGCGCCCGCCAGCGCGACCTCCCGCGGGGCGCGCCACCTCCCTCGCCGCC
TTCAGCTTCCAGCTGCCGCGCCGCTGTCCGACTCGCCCGTGTTCGACGCGCCCCCAGCCCCCGGACTCGCTG
TCGGACCGCGACAGCTACCTAAGCGGCTCCCTGAGCTCCGGCAGCCTCAGCGGCTCTGAGTCTCCAGCCTCGAC
CCTGGCCGCCGCTGCCAATCTTCAGCCGCTCTCCATCTCCGACGACTGAGGCAAGAGGGCGCCAGTGAGGAGG
AAGGGAAGGCGGTTTCAGAGATGTTGGAGGACACCCCTCGCCATCTCGCCCTTGCTGGGGGCACGGGAGTGGGGGG
GGTGACATGGGCCCTAGGCAGACTGCAAGCCCGACCGAGCACTTGGACTCGAACTCTGTGCCGGGAGGGGGCCCC
ACCCCTCCTTTTTCGGTTTCTCTTGTCTTTTTTTTTTTTTTTTTTTTATTACGAAGTTTCATTCTTTTTGAGCAAAA
AAGTCGAACTTTTTCTGTTGAACAAAATATTACAACAGGGCAGTTGTGATACGAATAGAACAAAAAAAAAAAA
AAACACTTAACTTTGTTAGGACTCCGATGAGTTTGGGACTTCAGGAAAAATCAACCCAGCACCAGCAGCTACCA
ACCACCATTCATCTCTTCACTTGAACAGCATTAGTTAAGTCCAGATGTGGGAACCTTCTCTTGAAGAAGTTC
CTAATTGTGTCTCAGACCGGTGTAAACAAACCAGCCAGCCGCCACCTTGCTAAACCTATAAGCTTTTTTAAATTC
AATATATTCTGCCAAGAATATGCCTTGATAGTTAGCCCTCAGCCCATAGGTGTTTTTTGTTTTTTTAAACAGATTA
TATATGTCTGGGGGTGAAAAAACCTTGCAATTCAAAGGTCCATACTGGTTACTTGGTTTCATTGCCACCACTTA
GTGGATGTTTCAGTTTAGAACCATTTTGTCTGCTCCCTCTGGAAGCCTTGCGCA

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FIGURE 197

MSTTLLSAFYDVDFLCKTEKSLANLNLNNMLDKKAVGTPVAAAPSSGFAPGFLRRHSASNLHALAHPAPSPGSCS
PKFPGAANGSSCGSAAAGGPTSYGTLKEPSGGGGTALLNKENKFRDRSFSENGDRSQHLLHLQQQQKGGGGSQIN
STRYKTELCRPFEEESGTCKYGEKCQFAHGFHELRLTRHPKYKTELCRTFHTIGFCPYGPRCHFIHNADERRPAP
SGGASGDLRAFGTRDALHLGFPREPRPKLHHSLSFSGFPSGHHQPPGGLESPLLLDSPTSRTPPPSCSSASSCS
SSASSCSSASAASTPSGAPTCCASAAAAAALLYGTGGAEDLLAPGAPCAACSSASCANNAFAFGPELSSLITP
LAIQTHNFAAVAAAAYYRSQQQQQQQLAPPAQPPAPPSATLPAGAAAPPSPPFQQLPRRLSDSPVFDAPPSP
DSLSDRDSYLSGSLSSGSLSGSESPSLDPGRRLPIFSRLSISDD

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FIGURE 198A

CAGATTTACGAGGTTCTGTTCTAGTGCCAAAGGCTCTTGGTAGTAAATAGTGAGCAAAATAGATACCTGTCTCCT
GATGGATCTTGCCAGCCCCNTCCNTATTTTTNTTAAAGTTATTTATTTAAAACACACACACCTTGCAAAGAAAAA
GGGAAACTGGCAGTCTCTGTAGAGGAAGCCGGTGGCATCGCTCAGAGCCACAACTGTATTTCTAAACAGCCCTT
TCCCTGGTTCCCTCTCTCTGCCCCACTTTTTTTTAAATCCAGACTGTAAAAAACACATCTACTGACACTCACTT
TACTTTAAAAAAGAAGAGAAAAAGTAAAGCGTTACAAGACTTTCTCCTGGAACTATAAACTGAAAAAAAAT
CCATAAAAGATTAAATCCTGGCGGGTTGTGGGGTGGCGGGGCGGGAGGGGGCGCGGAGTGGAGATTGGC
TCTCTGAGGTGGTCAGGGGCCCTGTGACAGCTTGGGACTTTCAGCACCTGGTTTGGGGTCATTATCTGCTCAAC
TGTCAGGACCCCCACCCCCAAACCCAGCCACCAACACAACCATCGTAGAAGGGAACACACAGAGGGTCTT
TTTTCATTTTTTTTAAAAATCGGTTTGGTTGTGTTTTGTTTTCCATGGGGGAGCTTTAAACTCATTATTGCAA
CACTAGTTCCATTTTTTCGCCAGGGTTCCAATAACACGGCATCATAAAGGCAACGCAACCCACAGTTCTCAAGACA
TTTACCACGGTCACTACATCCGGCAGCGGGTGGCCCCTAGCTCCTGTGCCCCCGCCCTTTCTCCCCGCCG
CCCCCGAGCTCAGCCGATTTCTGAGGCTCCAACCTTACCCACTCCCTCCCCGGGCCGCCGCCGCCCTTCC
CCCATTCTTACTCCCTCGAGGAGAGCCACAGGTTGCAAATCCAACCAACCTCGCAATCTATTTTTGCAAAATCAC
TCACAAAGATCTCCCTTTTCGCGCCCCGCGCCCGCTCCTCCCGCGCCGGGTCCCTCAGCCACGGCCACAAAGTGCC
CTTCTCTCCTCCTGAGTCTTGCACATAAGGAACGCGGGCTGGGGCTCTGTTCTGTTCTTCTCCTCGCCCAAGGTAA
GGACCTCGGGAATCTGAAGCCTGGCGTCCACTACGCTCAGGCCCCGAGTTCCCTTTTTACAGAGCTTGCACCATG
GGAAAAAATAAAATAAAATTTAGGAAAGGGAGGCAACAGCCATTGGGAGCCAACACAGAGTCACGCAGCGCCCAA
AATACAAACACCGCAGCGGCCAGAAATCCCGCCACCTTTCTCGTTCTCCAGGCTGTCTGTGAGGTTCCCTGA
GTCCCCCGCACACTGAAAGGCATCGCAGGTGCACTGCGCACCCCTTTCCACCCACCCCAAGAAGCCCTGTCCC
GCCATCAGTCTCTCTCCTCGGGATGAGCAGGGAGAGCGCGCGGAGGTTCCCGACTCCCTCGACTACAACCAAGAA
AGAATAATTTTCAAAGTGTTCAACATCCCCGCC'CCCAAGCTCCCCAAAACACAGGGGCAGGGAACACCAAAACAC
TCGGCTCTCGTTAGGAAGATCACGGCTCTGAAAGGAAATAGTAGACACGATACTTCATCTCATCTGGATTTATGA
CCAAAAAACAACAAACAAACCCAAAGAGTTTCGCTTGCATTTTTTTCCTTCCAAATCTCGGTTTCGGCTCGAAGGC
AGGGAATCTAAAAGACCGAGGCCGATGGAAGAGAGCCAGCGGGGCGAGCGAGCGGGCAGCCTCCCTTTTTGCCTC
CCGGAGTACCCGTTATTCTGTCGTGGCTCAAGCCCGGCCACGCCGCCCAAGGGCTCCTCCCGACCTCCCGGCCCT
GCCGCTCCGGCCACTGCGGGATCCAGAAACATGTGACCACACTTCTGTCCGCCTTCTACGATGTGCACTTCTTG
TGCAAGACAGAGAAATCCCTGGCCAACCTCAACCTGAACAACATGCTGGACAAGAAGGCGGTGGGGACGCCTGTG
GCCGCCGCCCCAGCTCGGGCTTCGCGCCGGGATTCTCCGACGGCACTCGGCCAGCAACCTGCATGCACTCGCC
CACCCCGCGCCCAGCCCCGGCAGCTGCTCGCCCAAGTTCCCGGGCGCCGCTAACGGCAGCAGCTGCGGCAGCGCG
GCGGCCGGCGGTCCGACCTCTACGGCACCTTAAGGAGCCGTGCGGGGGCGGCGGCACAGCCCTGCTCAACAAG
GAGAACAATTCGGGACCGCTCGTTTAGCGAGAACGGCGATCGCAGCCAGCACCTCCTGCACCTGCAGCAGCAG
CAGAAGGGGGGCGCGGGCTCCAGATCAACTCCACGCGCTACAAGACCGAGCTGTGCCGGCCCTTCGAGGAGAGC
GGCAGCTGCAAGTACGGCGAAAAGTGCCAGTTTCGCGCATGGCTTCCACGAGCTGCGCAGCCTGACTCGCCATCCG
AAGTACAAGACCGAGCTGTGCCGCACCTTTTATACCATCGGCTTCTGCCCTATGGGCCGCGCTGCCACTTCATC
CACAAACGCGGACGAGCGGGCGGCCCGCGCCGTGCGGGGGCGCCTCCGGGGACCTGCGTGCCTTTGGCACGCGCGAT
GCGTTGCACCTGGGCTTCCCGCGGGAGCCCGGCCCAAGTTGCACCACAGCCTCAGCTTCTCGGGCTTCCCGTGC
GGCCACCATCAGCCCCGGGCGGCCTCGAGTCGCCGCTGCTGCTCGACAGCCCCACGTGCGGCACGCCGCCGCCG
CCCTCCTGCTCTTCGGCCTCGTCTGCTCCTCCTCCGCTCCTCCTGTTCTCGGCCTCCCGGCCCTCCACGCC
TCGGGCGCCCCGACATGCTGCGCCTCCCGCGCGGCCGCGGCTGCGGGCGCTCTGCTGTACGGCACCGGGGGCGCC
GAGGACCTGCTGGCGCCGGGGGCCCCGTGCGCGGCCTGCTGCTGCGCCTCGTGCGCCAACAACGCCCTTCGCCCTC
GGTCCGGAGCTCAGCAGCCTCATCACGCCGCTCGCCATCCAGACCCACAACCTTTGCCGCCGTGGCCGCCGCCGCG
TACTACCGCAGTCAGCAGCAGCAGCAGCAGCAGGGCCTGGCGCCCCCGCGCAGCCGCCGGCGGCCGCCAGCGCG
ACCTTCCCCGCCGGGGCGCCGACCTCCCTCGCCGCCCTTACGCTTCCAGCTGCGCGCGCCGCTGTCCGACTCG
CCCGTGTTCGACGCGCCCCCAGCCCCCGACTCGCTGTGCGACCGCGACAGCTACCTAAGCGGCTCCCTGAGC
TCCGGCAGCCTCAGCGGCTCTGAGTCTCCAGCCTCGACCCTGGCCGCCGCTGCCAATCTTCAGCCGCTCTCC
ATCTCCGACGACTGAGGCAAGAGGGCGCCAGTGAGGAGGAAGGGAAGGCGGTTTCAGAGATGTTGGAGGACACCCC
TCGCCATCTCGCCCTTGCTGGGGGCACGGGAGTGGGGGGGTGACATGGGCCCTAGGCAGACTGCAAGCCCGACC
GAGCACTTGACTCGAACTCTGTGCCGGGAGGGGCCCCACCCCTCCTTTTTCGGTTTCTCTTGTCTCTTTTTT

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FIGURE 198B

TTTATTTTTATTACGAAGTTTCATTCTTTTTGAGCAAAAAAGTCGAACTTTTCTGTTGAACAAAATATTCACAA
CAGGGCAGTTGTGATACGAATAGAACAAAAAGAAAAAAAACACTTAAACTTTGTTAGGACTCCGATGAGTTT
GGGACTTCAGGAAAAATCAACCCAGCACCAGCAGCTACCAACCACCATTCCATCTCTTCACTTGAACAGCATTAG
TTAAGTCCAGATGTGGGAACCCCTTCTCTTGGGAAGAAGTTTCTAATTGTGTCTCAGACCGGTGTAAACAAACCAGC
CAGCCGCCACCTTGCTAAACCTATAAGCTTTTTTAAATCCAATATATTCTGCCAAGAATATGCCTTGATAGTTAG
CCCTCAGCCCATAGGTGTTTTTTGTTTTTAAACAGAATTATATATGTCTGGGGGTGAAAAACCCTTGCATTCCA
AAGGTCCATACTGGTTACTTGGTTTCATTGCCACCACCTTAGTGGATGTTTCAGTTTAGAACCATTTTTGTCTGCTCC
CTCTGGAAGCCTTGCGCAGAGCTTACTTTGTAATTGTTGGAGAATAACTGCTGAATTTTTAGCTGTTTTGAGTTG
ATTGCGACCACCTGCACCACAACCTCAATATGAAAACCTATTTAACTTATTTATTATCTTGTGAAAAGTATACAATGA
AAATTTTGTTCACTGTATTTATCAAGTATGATGAAAAGCAATAGATATATATTCTTTTATTATGTTAAATTAT
GATTGCCATTATTAATCGGCAAAATGTGGAGTGTATGTTCTTTTACAGTAATATATGCCTTTTGTAACTTCACT
TGGTTATTTTTATTGTAAATGAGTACAAAATCTTAATTTAAGAGATTGTATGTAATATTTTATTTTATTATTTCT
TTCCTTGTTTTACGTAAATTTTGAAAGATTGCATGATTTCTTGACAGAAATCGATCTTGATGCTGTGGAAGTAGTT
TGAGGAACATCCTATGAGTTTTCTTAGAATGTATAAAGGTTGTAGCCCATCCAACCTTCAAAGAAAAAATGACCA
CATACTTTGCAATCAGGCTGAAATGTGGCATGCTTTTCTAATTTCCAACCTTTATAAACTAGCAAAAAAGTGTTC
TTATTCCACCAGTTCTACTGTGACATACTCGAGTATAAAGACATGTAGCAATAACGGGGAGTGGGGGGGGAGTCT
CACAGTGCCTTTGGAAGGGCCCCGAACCTTGCCTTAAATCTTCCTCAACCAAATAAGTATTTTATTAGTGCTTGAGA
GAATCTGAATGTAGGATGGGTTCAACTGCACAAAAGGAAAAGATTTTTTACCACCTTTTTTATATAGATATAAAGT
GAAGCAACCGCCTTAGTGCTGAAATATGTAGTACATGAATATGCCTTGTTTAATTACAGAAAATTCAAAACCTTG
TACTATTTTTTTTTTCCATGTAGAAAGGCAGGAATGTCTCCTAAGCTTTTCTGGACAGCAGATGAATGAGCGGTA
GCTTTAGTTTGTACGTAGGTACAGTTGGAGCACTATATGTACTCTCTGGACTACTTTGGACAGAAGTAGGTTTTT
GAATGTAACAAGATAAGTCAACTTGAGTTGTAATATATTTTGGGGAATCAGCTCACTACAAATTGTGACTGTAAA
CATTGTACTGTAAATGTTTTGTAGTTTTCCCCCAATAAAATTTTTGGGAAAAAAGGTATTAACATGTAAGAGCT
TTCTTTTTTAAACAGGAATGTCTTAGCTTTCTAGCTTTCCAGCTAACCATGTCTGCCATTCCCCAGGCTTTGGCAT
GGTGGGGGAGGACTTGGAGAGCTGGCAGAGCCAGAGTTTCAAGAGCCTGCGTCCTCTCAGCCCGTATATATTTT
ATAAGCAAGTTCTTCTAATGAAAGAAAGTAATTATTTGGACTGTCAAGGGCATTAGTT

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FIGURE 199

MEESQ RGERAGSLPFCLPESPVIRRGSSPATPPQGLLPTSRPAAPATAGSRNMSTLLSAFYDVDFLCKTEKSLA
NLNLNNMLDKKAVGTPVAAAPSSGFAPGFLRRHSASNLHALAHPAPSPGSCSPKFPGAANGSSCGSAAAGGPTSY
GTLKEPSGGGGTALLNKENKFRDRSFSENGDRSQHLLHLQQQQKGGGSQINSTRYKTELCPFEESGTCKYGEK
CQFAHGFHELRLTRHPKYKTELCRTFHTIGFCPYGPRCHFHNADERRPAPSGGASGDLRAFGTRDALHLGFPR
EPRPKLHHSLSFSGFPSGHHQPPGGLESPLLLDSPTSRTPPPPSCSSASSCSSSASSCSSASAASTPSGAPTCCA
SAAAAAALLYGTGAEDLLAPGAPCAACSSASCANNAFAFGPELSSLITPLAIQTHNFAAVAAAAYYRSQQQQ
QQQGLAPPAQPPAPPSATLPAGAAAPPSPFQSPRRLSDSPVFDAPPSPDLSDRDSYLSGSLSSGSLSGSE
SPSLDPGRRLPIFSRLSISDD

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FIGURE 200

GTCGTGGAAGCAGGACTGCGCCGCGTCTTCCTCAAGGTGGGGTTCGGGGGGCCACCGAATCGCTGTACGCCGGC
AGGTTGAGAACAAAAACATGCACCTGGAGTTTCCCCGGAGCCCTCTGCGTGGTTGAGCTTCGGTGGAATTCGGG
GCTCTTGGCTGCCAGCCGCGCTTGCTGGTAGCAACAGAAACAGTCCTGCTCTCCTCCGTGGACATTTCAATTAC
CATCCAGAAGTGTCTCCCACTGAAGGCATCCGTGGTTGTTTTTAAGCCACAAAAAGCCACACCCCAAGATCACCT
GACACCCACCCTGACAAGTGTCCATGATGCTGGGCCCTGAGGGAGGTGAAGGCTTTGTGGTCAAGCTCCGTGGCC
TGCCCTGGTCTGCTCTGTTGAGGACGTGCAGAACTTCTCTGACTGCACGATTCATGATGGGGCCGCAGGTG
TCCATTTTATCTACACTAGAGAGGGCAGGCAGAGTGGTGAGGCTTTTGTGAACTTGGATCAGAAGATGATGTAA
AAATGGCCCTGAAAAAAGACAGGGAAAGCATGGGACACCGGTACATTGAGGTGTTCAAGTCCCACAGAACCGAGA
TGGATTGGGTGTTGAAGCACAGTGGTCCCAACAGTGCCGACAGCGCCAACGATGGCTTCGTGCGGCTTCGAGGAC
TCCCATTTGGATGCACAAAGGAAGAAATTGTTTCACTTCTCTCAGGGTTGGAATTTGTGCCAAACGGGATCACAT
TGCCTGTGGACCCCGAAGGCAAGATTACAGGGGAAGCGTTTCGTGCAGTTTGCCTCGCAGGAGTTAGCTGAGAAGG
CTCTAGGGAAACACAAGGAGAGGATAGGGCACAGGTACATTGAGGTGTTAAGAGCAGCCAGGAGGAAGTTAGGT
CATACTCAGATCCCCCTCTGAAGTTCATGTCCGTGCAGCGGCCAGGGCCCTATGACCGGCCCGGGACTGCCAGGA
GGTACATTGGCATCGTGAAGCAGGCAGGCCTGGAAGGATGAGGCCTGGTGCCTACAGCACAGGCTACGGGGGCT
ACGAGGAGTACAGTGGCCTCAGTGATGGCTACGGCTTACCACCGACCTGTTTCGGGAGAGACCTCAGCTACTGTC
TCTCCGGGATGTATGACCACAGATACGGCGACAGTGAGTTTACAGTGCAGAGCACCACAGGCCACTGTGTCCACA
TGAGGGGCCTGCCGTACAAAGCGACCGAGAACGACATTTACAACCTTCTTCTCTCTCAACCCTGTGAGAGTCC
ATATTGAGATTGGCCCAGATGGAAGAGTGACGGGTGAAGCAGATGTTGAGTTTGCTACTCATGAAGAAGCTGTGG
CAGCTATGTCCAAAGACAGGGCCAATATGCAGCACAGATATATAGAACTCTTCTTGAATTCACAACAGGGGCCA
GCAATGGGGCGTATAGCAGCCAGGTGATGCAAGGCATGGGGGTGTCTGCTGCCCAGGCCACTTACAGTGGCCTGG
AGAGCCAGTCAGTGAGTGGCTGTTACGGGGCCGGCTACAGTGGGCAGAACAGCATGGGTGGCTATGACTAGTTTTT
GTTAGGAACATTTGAGTTACTTCAATCATTTTACAGGCAGCCAACAAGCAATTAAGAGCAGTTATAATAGAGGA
AGCTGGGGGACCCATTTTGCACCATGAGTTTGTGAAAAATCTGGATTAAAAAATTACCTCTTCAGTGTTTTCTCA
TGCAAAATTTTCTTCTAGCATGTGATAATGAGTAACTAACTATTTTTCAGCTTTTCTCAATTAACATTTTGGT
AGTATACTTCAGAGTGATGTTATCTAAGTTTAAAGTAGTTTAAAGTATGTTAAATGTGGATCTTTTACACCACATCA
CAGTGAACACACTGGGGAGACGTGCTTTTTTGGAAAACTCAAAGGTGCTAGCTCCCTGATTCAAAGAAATATTTT
TCATGTTTGTTCATTCTAGTTTATATTTTCAATTTAAATCCTTTAGGTTAAGTTTAAAGCTTTTTTAAAGTTAGTT
TTGAGAATTGAGACACAATACTAATACTGTAGGAATTGGTGAGGCCTTGACTTAAACTTTTCTTTGTACTGTGAT
TTCCTTTTGGGTGTATTTTGTAAAGTAACTTGTAAATTTTTTGTAACTAAATTTTTTCTTAAATAAAGA
CTTTTTCACAATGACTGGCACAGATTACTCAGCAAAAGATAGCAAAACGGGTGGTTGAAGATAATTCATTTTAAAT
CGTAATGTATTTTAGTGTGAATTTAAAAATTTTATACATCAAATCTATGATCTCCCTTATATTCTTATGATGAGG
CTAAATAAAAGTCTAATAAAAAATGTTAAATATGTGAATGGTGGAATGGTGAAGTACTAGCAGCACACATTCTGGGAAG
CATCAATAGACACACGGCCCCAGCCACCTGCAACTTATGTGCACTGTTGTAAACCATTGAGAAATTTCTTGCTA
GGCCCTTGATGCTGGAGTCACATCTGTTGATAGCTGGAGAAGTTAGTTTCAAGTACTACATTGTGAAAGCAATT
ATTTTGTCTCTCGTTTTTATAAAATGCTGACTTAACTTTT

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FIGURE 201

MMLGPEGGEGFVVKLRLPWSCSVEDVQNFLSDCTIHDGAAGVHFITYTREGRQSGEAFVELGSEDDVKMALKKDR
LSMGHRYIEVFKSHRTEMDWVLKHSGPNSADSANDGFVRLRGLPFGCTKEEIVQFFSGLEIVPNGITLPVDPEGK
ITGEAFVQFASQELAEKALGKHKERIGHRYIEVFKSSQEEVRSYSDPPLKFMSVQRPGPYDRPGTARRYIGIVKQ
AGLERMRPGAYSTGYGGYEEYSGLSDBGYGTITDLFGRDLSYCLSGMYDHRYGDSEFTVQSTTGHCVMRGLPYKA
IYNFFSPLNPVRVHIEIGPDGRVTGEADVEFATHEEAVAAMSKDRANMQHRYIELFLNSTTGASNGAYSSQ
CVSAAQATYSGLESQSVSGCYGAGYSGQNSMGGYD

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FIGURE 202

GGCACGAGGGCGATGGAGCCGGGGCGCCGGGGGGCCGCGGCGCTGCTAGCGCTGCTGTGCGTGGCCTGCGCGCTGC
GCGCCGGGCGCGCCCAATACGAACGCTACAGCTTCCGCAGCTTCCCACGGGACGAGCTGATGCCGCTCGAGTCGG
CCTACCGGCACGCGCTGGACAAGTACAGCGGCGAGCACTGGGCGGAGAGCGTGGGCTACCTGGAGATCAGCCTGC
GGCTGCACCGCTTGCTGCGCGACAGCGAGGCCTTCTGCCACCGCAACTGCAGCGCGCGCGCGAGCCCGAGCCCG
CCGCCGGCCTCGCCAGCTATCCCGAGCTGCGCCTCTTCGGGGGCGCTGCTGCGCGCGCGCACTGCCTCAAGCGCT
GCAAGCAGGGCCTGCCAGCCTTCCGCCAGTCCCAGCCCAGCCGCGAGGTGCTGGCGGACTTCCAGCGCCGCGAGC
CCTACAAGTTCTGTCAGTTTCGCTTACTTCAAGGCAAATAATCTCCCCAAAGCCATCGCCGCTGCTCACACCTTTC
TACTGAAGCATCCTGATGACGAAATGATGAAGAGGAACATGGCATATTATAAGAGCCTGCCTGGTGCCGAGGACT
ACATTAAAGACCTGGAAACCAAGTCATATGAAAGCCTGTTTCATCCGAGCAGTGCAGGCGATACAACGGTGAGAACT
GGAGAACATCCATCACAGACATGGAGCTGGCCCTTCCCGACTTCTTCAAAGCCTTTTACGAGTGTCTCGCAGCCT
GCGAGGGTTCCAGGGAGATCAAGGACTTCAAGGATTTCTACCTTTCCATAGCAGATCATTATGTAGAAGTTCTGG
AATGCAAATAACAGTGTGAAGAGAACCTCACCCCAAGTTATAGGAGGCTATCCGGTTGAGAAATTTGTGGCTACCA
TGTATCATTACTTGCAGTTTGCCTATTATAAGTTGAACGACCTGAAGAATGCAGCCCCCTGTGCAGTCAGCTATC
TGCTCTTTGATCAGAATGACAAGGTCATGCAGCAGAACCTGGTGTATTACAGTACCACAGGGACACTTGGGGCC
TCTCGGATGAGCACTTCCAGCCCAGACCTGAAGCAGTTCAGTTCCTTAAATGTGACCACACTCCAGAAGGAGCTGT
ATGACTTTTGCTAAGGAAAATATAATGGATGATGATGAGGGAGAAGTTGTGGAATATGTGGATGACCTCTTGGAAC
TGGAGGAGACCAGCTAGCCCCACAGCAACCAAGAGACTTCTCTTGGCGTTTCCAGGAAACACAGATTCTTTGTCCT
TTTCCCAACAGCCCAGGCTGTTGATACCTCAGAGCCTTCTCTTTACTCTCCAAAGTGAAAGGGAAGCCCCCGTCT
CTCTAACTGCATGTCATCAGGGGTGAGCCTGCCTTTTCTATCTTTCACACCTGCCACCTCATGTTTCACACCTATCT
TTCTCACCTTTTTTTTTGAGATGGAGTCTCGCTCTCTTGCCAGGCTGGAGTGCAATGGCACGTTCTCAGCTCACT
GCAACCTCCGCTCTTGGGTTCAAGCAATTCTGCTGCATCAGCCTCCCGAGTACCTGGGATTACAGGCATGTGCC
ACCACGCCCCGGCTAATTTTGTATTTTAAAGTAAGAGACGGGGTTTTTGCCATGTTGGCCAGGCTGGTCTCGAATC
TTGACTTCAGATGATCCATCTGCCTTGGGCTCCACAGTGTGGGATTACAGGCGTGAGCCACCATGCCCCGGCC
TCTTTCTACCTTTACACCTGTCTTCTTATCCTCACATCTGTTTTTACACCTTCATCCCTGTCTTCTCATGTTT
ACACTTGTCTTCCCCATGTTTCATAGCTGCCTTTCTTACCATTTTGGTTTTGAAGGGCAGTCTTCTCTGGCTTGTTT
TTTTGTTTTTCCCAGAAAATCAGTATTATTTTTTAAATAAGAAAAACATTCCTAGAAGATGATAATTGTGAAAC
CTCCTTTGGCTTATTTGCTTTTCCAGATTTTAGTCTCCTTTCTCCCCATCCGGGAAAGATGGTGGAAGACATAGG
CTAAATTTCTCCAGCCTCACAATGGTCTTCACTTGGTCTGACTTGTACCAATTCTAGCACCCACTGAAAAACAAG
TTGAGTAGAGAGTGTAGAGTGCAGAAATGTGGCTTTTGCCCCACTTTGCATCTCCAAAATTACAACGGTTGGCCG
ATCCCATTGAGGACAATGCTTAGTTATAAGTCTCCGAGTTGGAAAAGGAAGAAAGCCAGAGCTGTCTAGTTTCA
TTCATTCTTTCAGTAAATATTTATTGAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 203

MEPGRRGAAALLALLCVACALRAGRAQYERYSFERSFPRDEIMPLESAYRHALDKYSGEHWAESVGYLEISLRLHR
LLRDSEAFCHRNCSAAPQPEPAAGLASYPELRRLFGLLRRAHCLKRCKQGLPAFRQSQPSREVLADFQRREPYKF
LQFAYFKANNLPKAIAAAHTFLLKHPDDEMMKRNMAYYKSLPGAEDYIKDLETksYESLFIRAVRAYNGENWRTS
ITDMELALPDFFKAFYECLAACEGSREIKDFKDFYLSIADHYVEVLECKIQCEENLTPVIGGYPVEKFVATMYHY
LQFAYYKLNDLKNAAPCAVSYLLFDQNDKVMQQNLVYYQYHRDTWGLSDEHFQPRPEAVQFFNVTTLQKELYDFA
KENIMDDDEGEVVEYVDDLLELEETS

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FIGURE 204

CTCGTCGCCGCCGCCATTTTAGCTGTTGGTTCCGGCCGCACCGTGTGGGCTGTAGTAGCGGGAGGGGTGGGGGTC
CTCCAGAGTTAAGTGGCTGTCTCGACTGTGCCCATACAGCAGCCAGCTTTCTTCTTAATAACTGCCCGTTCTGA
AGAGTGCAGGATGTTCCAAGCGGCACCGGTTGGACCTAGGGGAGGATTACCCCTCTGGCAAGAAGCGTGCGGGGA
CCGATGGGAAGGATCGAGATCGAGACCGGGATCGTGAAGATCGGTCTAAAGATCGAGACCGAGAACGTGATAGAG
GAGATAGAGAGCGAGAGAGGGAGAAAGAAAAGGAGAAGGAGTTGCGAGCTTCAACAAATGCTATGCTTATCAGTG
CTGGATTACCACCCCTGAAAGCTTCCCATTAGCTCACTCAACCCACTCAGCACATTCAACGCATTCTACACATT
CTGCTCATTCAACGCATGCCGGACATGCAGGTACACGTCACCTCCACAGTGCATTAAATCCGTTACCAACTTAC
CCCATACTCCTCGATACTATGATATTCTAAAGAAACGTCTTCAGCTCCCTGTTTGGGAATACAAGGATAGGTTTA
CAGATATTCTGGGTAGACATCAGTCCCTTGTACTGGTTGGTGAGACTGGGTCTGGTAAAACAACACAAATTCAC
ACCGGTGTGTGGAGTACATGCGATCATTACCAGGACCCAAGAGAGGAGTTGCCTGTACCCAACCCAGGAGAGTG
CTGCAATGAGTGTGGCTCAGAGAGTTGCTGATGAGATGGATGTGATGTTGGGCCAGGAAGTTGGTTACTCCATT
GATTTGAAGACTGCAGTAGTGCAAAAACATTTTTTATGTATATGACTGATGGGATGTTACTTCGTGAAGCTATGA
ATGATCCCCCTCCTGGAGCGTTATGGTGTAAATAATTCTTGATGAGGCTCATGAGAGGACACTGGCTACAGATATTC
TAATGGGTGTTCTGAAGGAAGTTGTAAGACAGAGATCAGATTTAAAGGTTATAGTTATGAGCGCTACTCTAGATG
CAGGAAAATTCCAGATTTACTTTGATAACTGTCCTCTCCTAACTATTCTGGGCGTACACATCCTGTTGAGATCT
TCTATACTCCAGAACCAGAGAGAGATTATCTTGAAGCAGCAATTGCAACAGTTATCCAGATTCATATGTGTGAAG
AGGAAGAGGGAGATCTTCTTCTTTTCTTAACTGGTCAAGAGGAAATTGATGAAGCCTGTAAGAGAATAAAGCGTG
AAGTTGATGATTTGGGCCCTGAAGTTGGTGACATTAATAATCATTCCATTGTATTCTACACTTCCACCTCAGCAGC
AGCAACGCATTTTTGAGCCTCCACCTCCCAAAAACAGAATGGAGCAATTGGAAGAAAGGTAGTTGTGTCAACTA
ACATAGCAGAGACGTCTTTGACAATAGATGGTGTGGTGTGTTGTGATTGATCCTGGATTGCGAAACAGAAGGTCT
ACAATCCTCGAATCAGAGTTGAGTCCCTTTTGGTGACAGCTATTAGTAAAGCTTCAGCTCAGCAAAGGGCTGGTC
GAGCTGGACGTACCAGACCTGGAAAATGCTTCAGACTTTACACAGAGAAAGCTTATAAAACAGAAATGCAGGATA
ACACCTATCCTGAGATTTTGCCTTCTAATTTAGGATCAGTTGTGTTACAATTGAAGAACTTGGTATTGATGACT
TGGTACATTTTGAATTTATGGATCCACCAGCTCCTGAAACTCTGATGAGAGCCCTGGAACCTTTTGAATTACCTGG
CTGCTTTAAATGATGATGGAGATCTGACTGAATTGGGATCCATGATGGCAGAGTTTCTCTAGATCCACAGCTCG
CAAAAATGGTTATTGCAAGTTGTGACTACAACCTGTTCTAATGAGGTCCTATCTATTACTGCTATGTTGTGCTAGTCC
CACAGTGTGTTTGTTCGCCCCACGGAGGCCAAGAAAGCCGCAGATGAGGCCAAGATGAGATTTGCCACATAGATG
GAGATCATCTGACACTGCTGAACGTCTACCATGCTTTTAAACAAAATCATGAATCGGTTTCAGTGGTGTATGACA
ACTTCATTAACACAGGTCCCTGATGTCCGCGGACAATGTACGCCAGCAGCTATCTCGAATTATGGACAGATTTA
ATTTGCCTCGTGAAGTACTGACTTTACAAGCAGGGACTATTATATTAATATAAGAAAAGCTTTGGTTACTGGGT
ATTTTATGCAGGTGGCACATTTAGAACGAACAGGGCATTACTTAACTGTGAAAGATAACCAGGTGGTTCAGTTGC
ATCCCTCTACTGTTCTTGACCACAAACCTGAATGGGTGCTTTTATAATGAGTTTGTCTAACAACAAAGAATTACA
TCCGGACATGTACAGACATCAAGCCAGAATGGTTGGTGAAAATTGCCCTCAATATTATGACATGAGCAATTCC
CACAGTGTGAAGCAAAGAGACAGTTGGACCGCATCATTGCCCAAACCTCAATCCAAGGAATATTCACAGTACTGA
ATTCAGTGCTTAGAACTGAAGTTATTGAGAGGACAGCTTTAAAGATGAATGAACTCAAAAGTTCGAGTTGTGCT
CTTCACGTTGGTTCGATAAATGGCCTTTATTTGAAAGCTTTTAAATTTTTCTTTACAGTAAATATCCATTCTGAT
TTCATAAATTAAACATTTATGCCTCCCTTTTGTGTTGACACTGTAGCTCATACTGGAAAAGTCGATCAATGTTTT
GCAGTTTATTGAAAGTAGTTCTATATATAACAATGTTATAAGCATTTCTTTAGAAATGGTTGAAAATGCTTCTAA
AATGTGATTATCGACCATGGTATGCATGATCGTTGTAATTGTTGACATTCCTTTTAGAAGTTGTGAAATGTTACA
ACTTGTGCTTATGTAGACACAATTTTTGTTTCAGTACCAGAGGCACTGACTTCAATAAAGTTTATTTATACGGA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 205

MSKRHRLDLGEDYPSGKKRAGTDGKDRDRDRDRDRSKDRDRERDRGDREREREKEKEKELRASTNAMLISAGLP
PLKASHSAHSTHSAHSTHSTHSAHSTHAGHAGHTSLPQCINPFTNLPHTPRYYDILKKRLQLPVWEYKDRFTDIL
GRHQSFVLVGETGSGKTTQIPHRCVEYMRS LPGPKRGVACTQPRRVAAMSVAQRVADEMVM LGQEVGYSIRFED
CSSAKTFFMYMTDGMLLREAMNDPLLERYGVII LDEAHERTLATDILMGVLKEVVQRSDLKVIVMSATLDAGKF
QIYFDNCPLLTIPTGRTHPVEIFYTPEPERDYLEAAIRTVIQIHMCEEEEGDLLLLFLT GQEEIDEACKRIKREVDD
LGPEVGDIKIIPLYSTLPPQQQRIFEP PPPKKQNGAIGRKVVVSTNIAETSLTIDGVVFVIDPGFAKQKVYNPR
IRVESLLVTAISKASAAQQRAGRAGRTRPGKCFRLYTEKAYKTEMQDNTYPEILRSNLGSVVLQLKKLGIDDLVHF
DFMDPPAPETLMRALELLNYLAALNDDGDLTELGSMMAEFPLDPQLAKMVIASCDYNCSNEVLSITAMLSVPQCF
VRPTEAKKADEAKMRF AHIDGDHLTLLNVYHAFKQNHESVQWCYDNFINYRSIMSADNVRQQLSRIMDRFNLPR
RSTDFTSRDYYINIRKALVTGYFMQVAHLERTGHYLT VKDNQVVQLHPSTVLDHKPEWVLYNEFVLT TKNYIRTC
TDIKPEWL VKIAPQYYDMSNFPQCEAKRQLDRIIAQTSIQGIFTVLNSVLRTEVIERTALKDE

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FIGURE 206

GAATTTCGCGGCCGCTGGTTTGCAGCTGCTCCGTCATCGTGCGGCCCGACGCTATCTCGCGCTCGTGTGCAGGCC
GGCTCGGCTCCTGGTCCCCGGTGCGAGGGTTAACGCGAGGCCCGGCCTCGGTCCCCGGACTAGGCCGTGACCCC
GGGTGCCATGAAGCAGGAGGGCTCGGCGCGGCGCCGCGGCGCGGACAAGGCGAAACCGCCGCCGCGGAGGAGA
ACAAGAACCCCCACCGCCCGGCCCGCCAGGATGTGGAGATGAAAGAGGAGGCAGCGACGGGTGGCGGGTCAAC
GGGGGAGGCAGACGGCAAGACGGCGGCGGCGAGCGGTTGAGCACTCCCAGCGAGAGCTGGACACAGTCACCTTGGA
GGACATCAAGGAGCACGTGAAACAGCTAGAGAAAGCGGTTTCAGGCAAGGAGCCGAGATTCTGTGCTGCGGGCCCT
GCGGATGCTGCCTTCCACATCACGCCGCTCAACCACTATGTTCTGTATAAGGCTGTGCAGGGCTTCTTCACTTC
AAATAATGCCACTCGAGACTTTTTGCTCCCTTCTTGAAGAGCCCATGGACACAGAGGCTGATTTACAGTTCCG
TCCCCGCACGGGAAAAGCTGCGTCGACACCCCTCCTGCCTGAAGTGGAAGCCTATCTCCAACCTCTCGTGGTCAT
CTTCATGATGAACAGCAAGCGCTACAAAGAGGCACAGAAGATCTCTGATGATCTGATGCAGAAGATCAGTACTCA
GAACCGCCCGGGCCCTAGACCTTGTAGCCGCAAAGTGTTACTATTATCACGCCCGGGTCTATGAGTTCCTGGACAA
GCTGGATGTGGTGCGCAGCTTCTTGATGCTCGGCTCCGGACAGCTACGCTTCGGCATGACGCAGACGGGCAGGC
CACCTGTGTAACCTCCTGCTGCGGAATTACCTACACTACAGCTTGACGACCAGGCTGAGAAGCTGGTGTCCAA
GTCTGTGTTCCAGAGCAGGCCAACAACAATGAGTGGGCCAGGTACCTCTACTACAGGGCGAATCAAAGCCAT
CCAGCTGGAGTACTCAGAGGCCCGGAGAACGATGACCAACGCCCTTCGCAAGGCCCTCAGCACACAGCTGTCCG
CTTCAAACAGACGGGTGCACAAGCTTCTCATCGTGGTGGAGCTGTTGCTGGGGGAGATCCCTGACCGGCTGCAGTT
CCGCCAGCCCTCCCTCAAGCGCTCACTCATGCCCTATTTCTTCTGACTCAAGCTGTCAGGACAGGAAACCTAGC
CAAGTTCAACCAGGTCTGGATCAGTTTGGGGAGAAGTTTCAAGCAGATGGGACCTACACCCTAATTATCCGGCT
GCGGCACAACGTGATTAAGACAGGTGTACGCATGATCAGCCTCTCCTATTCCCGAATCTCCTTGGCTGACATCGC
CCAGAAGCTGCAGTTGGATAGCCCCGAAGATGCAGAGTTCATTGTTGCCAAGGCCATCCGGGATGGTGTGATTGA
GGCCAGCATCAACCACGAGAAGGGCTATGTCCAATCCAAGGAGATGATTGACATCTATTCCACCCGAGAGCCCCA
GCTAGCCTTCCACCAGCGCATCTCCTTCTGCCTAGATATCCACAACATGTCTGTCAAGGCCATGAGGTTTCTCTC
CAAATCGTACAACAAGGACTTGGAGTCTGCAGAGGAACGGCGTGAGCGAGAACAGCAGGACTTGGAGTTTGCCAA
GGAGATGGCAGAAGATGATGATGACAGCTTCCCTTGAGCTGGGGGGCTGGGGAGGGGTAGGGGGAATGGGGACAG
GCTCTTTCCCCCTTGGGGGTCCCCTGCCCAGGGCACTGTCCCCATTTTCCACACACAGCTCATATGCTGCATT
GTGCAGGGGGTGGGGGTGCTGGGAGCCAGCCACCCTGACCTCCCCAGGGCTCCTCCCCAGCCGGTGACTTACTG
TACAGCAGGCAGGAGGGTGGGCAGGCAACCTCCCCGGGCAGGGTCTTGCCAGCAGTGTGGGAGCAGGAGGGGAA
GGATAGTTCTGTGTACTCCTTTAGGGAGTGGGGGACTAGAACTGGGATGTCTTGGCTTGTATGTTTTTTGAAGCT
TCGATTATGATTTTTAAACAATAAAAAGTTCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAGCGGCCGCGAAT
TC

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FIGURE 207

MMQEGSARRRGADKAKPPPGGGEQEP PPPAPQDVEMKEEAATGGGSTGEADGKTAAAVEHSQRELDVTLEDI
VEHVQLEKAVSGKEPRFVLRALRMLPSTSRRLNHYVLYKAVQGFFTSNNATRD FLLPFLEPMDEADLQFRPR
TGKAASTPLLPEVEAYLQLLVVIFMMNSKRYKEAQKISDDLMOKISTQNRALDLVAAKCYHHARVYEF LDKLD
VVR SFLHARLRTATLRHDADGQATLLNLLLRNYLHYSLYDQAEKLVSKSVFPEQANNNEWARYLYYTGR IKAIQL
TARRITMTNALRKAPQHTAVGFKQTVHKLLIVVELLLGEIPDRLQFRQPSLKRSLMPYFLLTQAVRTGNLAKF
QFGEKFQADGTYTLIIRLRHNVIKTGVRMISLSYSRISLADIAQKLQLDSPEDA EFIVAKAIRDGVIEAS
KGYVQSKEMIDIYSTREPQLAFHQRI SFCLDIHNMSVKAMRFPPKSYNKDLES AEERREREQQDLEFAKEM
MDDDSFP

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FIGURE 208A

CAGGACAGGGAAGAGCGGGCGCTATGGGGAGCCGGACGCCAGAGTCCCCTCTCCACGCCGTGCAGCTGCGCTGGG
GCCCCGGCGCCGACCCCCGCTCGTGCCGCTGCTGTTGCTGCTCGTGCCGCCGCCACCCAGGGTCGGGGGCTTCA
ACTTAGACGCGGAGGCCCCAGCAGTACTCTCGGGGCCCCGGGCTCCTTCTTCGGATTCTCAGTGGAGTTTACC
GGCCGGGAACAGACGGGGTCAGTGTGCTGGTGGGAGCACCCAAGGCTAATACCAGCCAGCCAGGAGTGTGCAGG
GTGGTGTCTGTCTACCTCTGTCTTGGGGTGCCAGCCCCACACAGTGCACCCCCATTGAATTTGACAGCAAAGGCT
CTCGGCTCCTGGAGTCCCTACTGTCCAGCTCAGAGGGAGAGGAGCCTGTGGAGTACAAGTCCTTGAGTGGTTTCG
GGCAACAGTTCGAGCCCATGGCTCCTCCATCTTGGCATGCGCTCCACTGTACAGCTGGCGCACAGAGAAGGAGC
CACTGAGCGACCCCGTGGGCACCTGTACCTCTCCACAGATAACTTCACCCGAATTCTGGAGTATGCACCCCTGCC
GCTCAGATTTAGCTGGGCAGCAGGACAGGGTTACTGCCAAGGAGGCTTCAGTGCCGAGTTACCAAGACTGGCC
GTGTGGTTTTAGGTGGACCAGGAAGCTATTTCTGGCAAGGCCAGATCCTGTCTGCCACTCAGGAGCAGATTGCAG
AATCTTATTACCCCGAGTACCTGATCAACCTGGTTTCAGGGGCAGCTGCAGACTCGCCAGGCCAGTTCCATCTATG
ATGACAGCTACCTAGGATACTCTGTGGCTGTGGTGAATTCAGTGGTGATGACACAGAAGACTTTGTTGCTGGTG
TGCCCAAAGGGAACCTCACTTACGGCTATGTACCATCCTTAATGGCTCAGACATTGATCCCTCTACAACTTCT
CAGGGGAACAGATGGCCTCCTACTTTGGCTATGCAGTGGCCGCCACAGACGTCAATGGGGACGGGCTGGATGACT
TGCTGGTGGGGGCACCCCTGCTCATGGATCGGACCCCTGACGGGCGGCCTCAGGAGGTGGGCAGGGTCTACGTCT
ACCTGCAGCACCCAGCCGGCATAGAGCCACGCCACCCCTTACCCTCACTGGCCATGATGAGTTTGGCCGATTG
GCAGCTCCTTGACCCCCCTGGGGGACCTGGACCAGGATGGCTACAATGATGTGGCCATCGGGGCTCCCTTTGGTG
GGGAGACCCAGCAGGGAGTAGTGTGTTGATTTTCTGGGGGCCAGGAGGGCTGGGCTCTAAGCCTTCCCAGGTTT
TGCAGCCCCCTGTGGGCAGCCAGCCACACCCAGACTTCTTTGGCTCTGCCCTTCGAGGAGGCCGAGACCTGGATG
GCAATGGATATCCTGATCTGATTGTGGGTCTTTGGTGTGGACAAGGCTGTGGTATACAGGGGCCGCCCATCG
TGTCCGCTAGTGCTCCCTCACCATCTTCCCCGCCATGTTCAACCCAGAGGAGCGGAGCTGCAGCTTAGAGGGGA
ACCCTGTGGCCTGCATCAACCTTAGCTTCTGCCTCAATGCTTCTGGAAAACACGTTGCTGACTCCATTGGTTTCA
CAGTGGAACTTCAGCTGGACTGGCAGAAGCAGAAGGGAGGGGTACGGCGGGCACTGTTCTTGGCCTCCAGGCAGG
CAACCCTGACCCAGACCCTGCTCATCCAGAATGGGGCTCGAGAGGATTGCAGAGAGATGAAGATCTACCTCAGGA
ACGAGTCAGAATTCGAGACAACTCTCGCCGATTACATCGCTCTCAACTTCTCCTTGGACCCCCAAGCCCCAG
TGGACAGCCACGGCCTCAGGCCAGCCCTACATTATCAGAGCAAGAGCCGGATAGAGGACAAGGCTCAGATCTTGC
TGGACTGTGGAGAAGACAACATCTGTGTGCTGACCTGCAGCTGGAAGTGTGTTGGGGAGCAGAACCATGTGTACC
TGGGTGACAAGAATGCCCTGAACCTCACTTTCCATGCCAGAATGTGGGTGAGGGTGGCGCCTATGAGGCTGAGC
TTCGGGTACCGCCCCCTCCAGAGGCTGAGTACTCAGGACTCGTCAGACACCCAGGGAATTCTCCAGCCTGAGCT
GTGACTACTTTGCCGTGAACCAGAGCCGCCTGCTGGTGTGTGACCTGGGCAACCCCATGAAGGCAGGAGCCAGTC
TGTGGGGTGGCCTTCGGTTTACAGTCCCTCATCTCCGGGACACTAAGAAAACCATCCAGTTTGACTTCCAGATCC
TCAGCAAGAATCTCAACAACCTCGCAAAGCGACGTGGTTTCTTTTCGGCTCTCCGTGGAGGCTCAGGCCAGGTCA
CCCTGAACGGTGTCTCCAAGCCTGAGGCAGTGCTATTTCCAGTAAGCGACTGGCATCCCCGAGACCAGCCTCAGA
AGGAGGAGGACCTGGGACCTGCTGTCCACCATGTCTATGAGCTCATCAACCAAGGCCCCAGCTCCATTAGCCAGG
GTGTGCTGGAACCTCAGCTGTCCCCAGGCTCTGGAAGGTCAGCAGCTCCTATATGTGACCAGAGTTACGGGACTCA
ACTGCACCACCAATCACCCCATTAACCCAAAAGGGCCTGGAGTTGGATCCCAGGGTTCCCTGCACCACCAGCAAA
AACGGGAAGCTCCAAGCCGACGCTCTGCTTCTCGGGACCTCAGATCCTGAAATGCCCGGAGGCTGAGTGTTC
GGCTGCGCTGTGAGCTCGGGCCCCCTGCACCAACAAGAGAGCCAAAGTCTGCAGTTGCATTTCCGAGTCTGGGCCA
AGACTTTCTTGACGCGGGAGCAACAGCCATTAGCCTGCAGTGTGAGGCTGTGTACAAAGCCCTGAAGATGCCCT
ACCGAATCCTGCTCGGCAGCTGCCCCAAAAGAGCGTCAGGTGGCCACAGCTGTGCAATGGACCAAGGCAGAAG
GCAGCTATGGCGTCCCACTGTGGATCATCATCTAGCCATCCTGTTTGGCCTCCTGCTCCTAGGTCTACTCATCT
ACATCCTCTACAAGCTTGGATTCTTCAAACGCTCCCTCCCATATGGCACCGCCATGGAAAAAGCTCAGCTCAAGC
CTCCAGCCACCTCTGATGCCCTGAGTCTCTCCCAATTTAGACTCCATTCTGAAAGAACAGTCCCCCACCCTCA
TTCTACTGAAAAGGAGGGGTCTGGGTACTTCTTGAAGGTGCTGACGGCCAGGGAGAAGCTCCTCTCCCCAGCCCA
GAGACATACTTGAAGGGCCAGAGCCAGGGGGGTGAGGAGCTGGGGATCCCTCCCCCCCCATGCACTGTGAAGGACC
CTTGTGTTACACATAACCTCTTCATGGATGGGGGAACCTCAGATCCAGGGACAGAGGCCAGCCTCCCTGAAGCCTT
TGCATTTTGGAGAGTTTCTGAAACAACCTGGAAAGATAACTAGGAAATCCATTACAGTTCTTTGGGCCAGACAT
GCCACAAGGACTTCTGTCCAGCTCCAACCTGCAAAGATCTGTCTCAGCCTTGCCAGAGATCCAAAAGAAGCCC

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FIGURE 208B

CCAGTAAGAACCTGGAACTTGGGGAGTTAAGACCTGGCAGCTCTGGACAGCCCCACCCTGGTGGGCCAACAAAGA
ACACTAACTATGCATGGTGCCCCAGGACCAGCTCAGGACAGATGCCACAAGGATAGATGCTGGCCCAGGGCCAGA
GCCCAGCTCCAAGGGGAATCAGAACTCAAATGGGGCCAGATCCAGCCTGGGGTCTGGAGTTGATCTGGAACCCAG
ACTCAGACATTGGCACCAATCCAGGCAGATCCAGGACTATATTTGGGCCTGCTCCAGACCTGATCCTGGAGGCCC
AGTTCACCCTGATTTAGGAGAAGCCAGGAATTTCCCAGGACCTGAAGGGGCCATGATGGCAACAGATCTGGAACC
TCAGCCTGGCCAGACACAGGCCCTCCCTGTTCCCCAGAGAAAGGGGAGCCCACTGTCCTGGGCCTGCAGAATTTG
GGTCTGCCTGCCAGCTGCACTGATGCTGCCCCCTCATCTCTCTGCCCAACCCTTCCCTCACCTTGGCACCAGACA
CCCAGGACTTATTTAACTCTGTTGCAAGTGCAATAAATCTGACCCAGTGCCCCCACTGACCAGAACTAGAAAAA
AAAA

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FIGURE 209

MGSRTPEsplhAVQLRWGPRRRPPLVPLLLLLLVPPPPRVGGFNLDAAEAPAVLSGPPGSFFGFSVEFYRPGTDGVS
VLVGAPKANTSQPGVLQGGAVYLCPWGASPTQCTPIEFDSKGSRLLESSLSSEGEEPVEYKSLQWFGATVRAHG
SSILACAPLYSWRTEKEPLSDPVGTCYLSTDNFTRILEYAPCRSDFSWAAGQGYCQGGFSAEFTKTGRVVLGGPG
SYFWQGGILSATQEQAESYYPEYLINLVQGQLQTRQASSIYDDSYLGYSVAVGEFSGDDTEDFVAGVPKGNLTY
GYVTILNGSDIRSLYNFSGEQMASYFGYAVAATDVNGDGLDDLLVGAPLLMDRTPDGRPQEVGRVYVYLQHPAGI
EPTPTLTTLTGHDEFGRFGSSLTPLGDLDDQDGYNDVAIGAPFGGETQQGVVVFVFPGGPGGLGSKPSQVLQPLWAAS
HTPDDFFGSALRGGRDLGNGYPDLIVGSFGVDKAVVYRGRPIVSASASLTIFPAMFNPEERSCSLEGNPVACINL
SFCLNASGKHVADSIGFTVELQLDWQKQKGGVRRALFLASRQATLTQTLLIQNGAREDCREMKIYLRNESEFRDK
LSPIHIALNFSLDPQAPVDShGLRPALHYQSKSRIEDKAQILLDCGEDNICVPDLQLEVFGEQNHVYLGDKNALN
LTFHAQNVGEGGAYEAELRVTAPPEAEYSGLVRHPGNFSSLSCDYFAVNQSRLLVCDLGNPMKAGASLWGGLRFT
VPHLRDTKKTIQFDFQILSKNLNNSQSDVVSFRLSVEAQAQVTLNGVSKPEAVLFPVSDWHPRDQPQKEEDLGPA
VHHVYELINQGPSSISQGVLELSCPQALEGQQLLYVTRVTGLNCTTNHPINPKGLELDPEGSLHHQOKREAPSR
SASSGPQILKCPEAECFRLRCELGLHQESQSLQLHFRVWAKTFLQREHQPSLOCEAVYKALKMPYRILPRQL
PQKERQVATAVQWTKAEGSYGVPLWIIILAILFGLLLLGLLIYIYLYKLGFfKRSPLPYGTAMEKAQLKPPATSDA

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FIGURE 210

GGGCGCGCCAGAGACGCAGCCGCGCTCCACCACCCACACCCACCGCGCCCTCGTTTCGCCTCTTCTCCGGGAGCC
AGTCCGCGCCACCGCCGCGCCAGGCCATCGCCACCCTCCGCAGCCATGTCCACCAGGTCCGTGTCCTCGTCCT
CCTACCGCAGGATGTTTCGGCGGCCCCGGGCACCGCGAGCCGGCCGAGCTCCAGCCGGAGCTACGTGACTACGTCCA
CCCGCACCTACAGCCTGGGCAGCGCGCTGCGCCCCAGCACCAGCCGCGAGCCTCTACGCCTCGTCCCCGGGCGGCG
TGTATGCCACGCGCTCCTCTGCCGTGCGCCTGCGGAGCAGCGTGCCCGGGGTGCGGCTCCTGCAGGACTCGGTGG
ACTTCTCGCTGGCCGACGCCATCAACACCGAGTTCAAGAACACCCGCACCAACGAGAAGGTGGAGCTGCAGGAGC
TGAATGACCGCTTCGCCAACTACATCGACAAGGTGCGCTTCCTGGAGCAGCAGAATAAGATCCTGCTGGCCGAGC
TCGAGCAGCTCAAGGGCCAAGGCAAGTCGCGCCTAGGGGACCTCTACGAGGAGGAGATGCGGGAGCTGCGCCGGC
AGGTGGACCAGCTAACCAACGACAAAGCCCCGCGTCGAGGTGGAGCGCGACAACCTGGCCGAGGACATCATGCGCC
TCCGGGAGAAATTGCAGGAGGAGATGCTTCAGAGAGAGGAAGCCGAAACACCCTGCAATCTTTCAGACAGGATG
TTGACAATGCGTCTCTGGCACGTCTTGACCTTGAACGCAAAGTGGAATCTTTGCAAGAAGAGATTGCCTTTTGA
AGAAACTCCACGAAGAGGAAATCCAGGAGCTGCAGGCTCAGATTAGGAACAGCATGTCCAAATCGATGTGGATG
TTTCCAAGCCTGACCTCACGGCTGCCCTGCGTGACGTACGTACGCAATATGAAAGTGTGGCTGCCAAGAACCTGC
AGGAGGCAGAAGAATGGTACAAATCCAAGTTTGCTGACCTCTCTGAGGCTGCCAACCGGAACAATGACGCCCTGC
GCCAGGCAAAGCAGGAGTCCACTGAGTACCGGAGACAGGTGCAGTCCCTCACCTGTGAAGTGGATGCCCTTAAAG
GAACCAATGAGTCCCTGGAACGCCAGATGCGTGAAATGGAAGAGAAGTTTGCCGTTGAAGCTGCTAACTACCAAG
ACACTATTGGCCGCTGCAGGATGAGATTGAGAATATGAAGGAGGAAATGGCTCGTCACCTTCGTGAATACCAAG
ACCTGCTCAATGTTAAGATGGCCCTTGACATTGAGATTGCCACCTACAGGAAGCTGCTGGAAGGCGAGGAGAGCA
GGATTTCTCTGCCTCTTCCAACTTTTCTCCCTGAACCTGAGGGAAACTAATCTGGATTCACTCCCTCTGGTTG
ATACCCACTCAAAAAGGACATTCCTGATTAAGACGGTTGAACTAGAGATGGACAGGTTATCAACGAACTTCTC
AGCATCACGATGACCTTGAATAAAAATTGCACACACTCAGTGGCAGGCGATATATTACCCAGGCAAGAATAAAAA
AGAAATCCCATATCTTAAAGAAACAGCTTTCAAGTGCCTTTCTGCAGTTTTTCAGGAGCGCAAGATAGATTGGA
ATAGGAATAAGCTCTAGTTCTTAACAACCGACACTCCTACAAGATTTAGAAAAAGTTTACAACATAATCTAGTT
TACAGAAAAATCTTGCTAGATACTTTTTAAAGGTATTTTGAATACCATTAACCTGCTTTTTTTTTTCCAG
CAAGTATCCAACCAACTTGTTCTGCTTCAATAAATCTTTGAAAACTCCA

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FIGURE 211

MSTRSVSSSSYRRMFGGPGTASRPSSRSYVTTSTRTYSLGSALRPSTSRSLYASSPGGVYATRSSAVRLRSSVP
GVRLLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLEQQNKILLAELEQLKGQGSRLGDLY
EEEMRELRRQVDQLTNDKARVEVERDNLAEDIMRLREKLQEEMLQREEAENTLQSFRQDVNDASLARLDLERKVE
SLQEEIAFLKKLHEEEIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRQQYESVAAKNLQEAEEWYKSKFADLSE
AANRNNDALRQAKQESTEYRRQVQSLTCEVDALKGTNESLERQMRMEENFAVEAANYQDTIGRLQDEIQNMKEE
MARHLREYQDLLNVKMALDIEIATYRKLLLEGESRISLPLPNFSSLNLRETNLDSLPLVDTHSKRTFLIKTVETR
DGQVINETSQHDDLE

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FIGURE 212A

CAGTTTGGAGCTCAGTCTTCCACCAAAGGCCGTTTCAGTTCTCCTGGGCTCCAGCCTCCTGCAAGGACTGCAAGAG
1TTTCTCCGCAGCTCTGAGTCTCCACTTTTTTGGTGGAGAAAGGCTGCAAAAAGAAAAAGAGACGCAGTGAGTG
GGAAAAGTATGCATCCTATTCAAACCTAATTGAATCGAGGAGCCAGGGACACACGCCCTTCAGGTTTGCTCAGGG
TTTCATATTTGGTGCTTAGACAAATTCAAAATGAGGAAACATCGGCACCTTGCCCTTAGTGGCCGTCTTTTGCCCTC
CTCAGGCTTTCTTACAACCTCATGCCAGCAGCAGCAAGCAGATGTCAAAAATGGTGGCGGTGCTGATATA
CTAGTGGATTCCCTCTTGGACCATTGGAGAGGAACATTTCCAACCTTGTTTCGAGAGTTTCTATATGATGTT
AATCCTTAGCTGTGGGAGAAAATGATTTCCATTTTGCTCTGGTCCAGTTCAACGGAAACCCACATACCGAG
TGTGTTAAATACGTATCGTACTAAACAAGAAGTCCTTTCTCATATTTCCAACATGTCTTATATTGGGGGAACC
AGACTGGAAAAGGATTAGAATACATAATGCAAAGCCACCTCACCAAGGCTGCTGGAAGCCGGGCGGCTGAC
GCCCTCAGGTTATCGTAGTGTAACTGATGGACACTCGAAGGATGGCCTTGCTCTGCCCTCAGCGGAACCTT
TGCTGATGTTAACGTGTTTGCAATTGGAGTTGAGGATGCAGATGAAGGAGCGTTAAAGAAAATAGCAAGT
GGCTCAATATGCATATGTTCAACCTAGAGAATTTACCTCACTTCATGACATAGTAGGAAACTTAGTGTC
TGCAATTCATCCGTGAGTCCAGAAAGGGCTGGGGACACGGAAACCCTTAAAGACATCACAGCACAAAGACTCT
GACATTATTTTCTTATTGATGGATCAAACAACACCGGAAGTGTCAATTTGCGAGTCATTCTCGACTTCCTT
GTAAATCTCCTTGAGAAACTCCCAATTGGAACCTCAGCAGATCCGAGTGGGGGTGGTCCAGTTTAGCGATGAGCCC
AGAACCATGTTTTCTTGGACACCTACTCCACCAAGGCCAGGTTCTGGGTGCAGTGAAAGCCCTCGGGTTTGCT
CGTGGGGAGTTGGCCAATATCGGCCTCGCCCTTGATTTCTGGTGGAGAACCACCTTACCCGGGCAGGGGGCAGC
CGCGTGGAGGAAGGGGTTCGCCAGGTGCTGGTCTCATAAGTGCCGGGCCTTCTAGTGACGAGATTGCTACGGG
GTGGTAGCACTGAAGCAGGCTAGCGTGTTCTCATTGCGCCTTGAGGCCAGGCCGCTCCAGGGCAGAGCTTCAG
CACATAGCTACCGATGACAACCTTGGTGTCTACTGTCCCGGAATTCGTTAGCTTTGGGGACCTCCAGGAGAAATTA
CTGCCGTACATTGTTGGCGTGGCCCAAAGGCACATTGTCTTGAAACCGCCAACCATTGTACACAAGTCATTGAA
GTCAACAAGAGAGACATAGTCTTCTGGTGGATGGCTCATCTGCACTGGGACTGGCCAACCTTCAATGCCATCCGA
GACTTCATTGCTAAAGTCATCCAGAGGCTGGAAATCGGACAGGATCTTATCCAGGTGGCAGTGGCCCCAGTATGCA
GACACTGTGAGGCCTGAATTTTATTTCAATACCCATCCAACAAAAGGGAAGTCATAACCGCTGTGCGGAAAATG
AAGCCCCTGGACGGCTCGGCCCTGTACACGGGCTCTGCTCTAGACTTTGTTTCGTAACAACCTATTACAGAGTTCA
GCCGGCTACCGGGCTGCCGAGGGGATTCTAAGCTTTTGGTGTGATCACAGGTGGTAAGTCCCTAGATGAAATC
AGCCAGCCTGCCAGGAGCTGAAGAGAAGCAGCATAATGGCCTTTGCCATTGGGAACAAGGGTGGCGATCAGGCT
GAGCTGGAAGAGATCGCTTTGACTCCTCCCTGGTGTTCATCCAGCTGAGTTCCGAGCCGCCCATTCGAAGGC
ATGCTGCCTGGCTTGCTGGCACCTCTCAGGACCCTCTCTGGAACCCCTGAAGTTCACTCAAACAAAAGAGATATC
ATCTTTCTTTTGGATGGATCAGCCAACGTTGGAAAAACCAATTTCCCTTATGTGCGCGACTTTGTAATGAACCTA
GTTAACAGCCTTGATATTGGAAATGACAATATTCGTGTTGGTTTAGTGCAATTTAGTGACACTCCTGTAACGGAG
TTCTCTTTAAACACATACCAGACCAAGTCAGATATCCTTGGTCACTGAGGCAGCTGCAGCTCCAGGGAGGTTTCG
GGCCTGAACACAGGCTCAGCCCTAAGCTATGTCTATGCCAACCACTTCACGGAAGCTGGCGGCAGCAGGATCCGT
GAACACGTGCCGCAGCTCCTGCTTCTGCTCACAGCTGGGCAGTCTGAGGACTCCTATTTGCAAGCTGCCAACGCC
TTGACACGCGCGGGCATCCTGACTTTTTGTGTGGGAGCTAGCCAGGCGAATAAGGCAGAGCTTGAGCAGATTGCT
TTTAACCCAAGCCTGGTGTATCTCATGGATGATTTAGCTCCCTGCCAGCTTTGCCTCAGCAGCTGATTACAGCCC
CTAACACATATGTTAGTGGAGGTGTGGAGGAAGTACCACTCGCTCAGCCAGAGAGCAAGCGAGACATTCTGTTC
CTCTTTGACGGCTCAGCCAATCTTGTGGGCCAGTTCCCTGTTGTCGTGACTTTCTCTACAAGATTATCGATGAG
CTCAATGTGAAGCCAGAGGGGACCCGAATTGCGGTGGCTCAGTACAGCGATGATGTCAAGGTGGAGTCCCGTTTT
GATGAGCACCAGAGTAAGCCTGAGATCCTGAATCTTGTGAAGAGAATGAAGATCAAGACGGGCAAAGCCCTCAAC
CTGGGCTACGCGCTGGACTATGCACAGAGGTACATTTTTGTGAAGTCTGCTGGCAGCCGGATCGAGGATGGAGTG
CTTCAGTTTCTGGTGCTGCTGGTTCGAGGAAGGTCACTGACCGTGTGGATGGGCCAGCAAGTAACCTGAAGCAG
AGTGGGGTTGTGCCTTTTCATCTTCCAAGCCAAGACGCAGACCCTGCTGAGTTAGAGCAGATCGTGCTGTCTCCA
GCGTTTATCCTGGCTGCAGAGTCGCTTCCCAAGATTGGAGATCTTCATCCACAGATAGTGAATCTCTTAAATCA
GTGCACAACGGAGCACCAGCACCAGTTTCAGGTGAAAAGGACGTGGTGTCTTGCTTGATGGCTCTGAGGGCGTC
AGGAGCGGCTTCCCTCTGTTGAAAGAGTTTGTCAGAGAGTGGTGGAAAGCCTGGATGTGGGCCAGGACCGGGTC
CGCGTGGCGGTGGTGCAGTACAGCGACCGGACCAGGCCGAGTTCTACCTGAATTCATACATGAACAAGCAGGAC
GTCGTCAACGCTGTCCGCCAGCTGACCCTGTGGGAGGGCCGACCCCAACACCGGGGCGCCCTGGAGTTTGTCT

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FIGURE 212B

CTGAGGAACATCCTGGTCAGCTCTGCGGAAGCAGGATAACAGAAGGTGTGCCCCAGCTGCTGATCGTCCTCACG
GCCGACAGGTCTGGGGATGATGTGCGGAACCCCTCCGTGGTCTGTGAAGAGGGGTGGGGCTGTGCCATTGGCATT
GGCATCGGGAACGCTGACATCACAGAGATGCAGACCATCTCCTTCATCCCGACTTTGCCGTGGCCATTCCCACC
TTTCGCCAGCTGGGGACCGTCCAACAGGTATCTCTGAGAGGGTGACCCAGCTCACCCGCGAGGAGCTGAGCAGG
CTGCAGCCGGTGTTCAGCCTCTACCGAGCCCAGGTGTTGGTGCAAGAGGGACGTGGTCTTTCTCATCGATGGG
TCCCAAAGTGCCGGGCTGAGTTCCAGTACGTTTCGCACCCCTCATAGAGAGGCTGGTTGACTACCTGGACGTGGGC
TTTGACACCACCCGGGTGGCTGTTCAGTTTCAGCGATGACCCCAAGGCGGAGTTCTCTGCTGAACGCCCCATTCC
AGCAAGGATGAAGTGCAGAACGCGGTGCAGCGGTGAGGCCCAAGGGAGGGCGGCAGATCAACGTGGGCAATGCC
CTGGAGTACGTGTCCAGGAACATCTTCAAGAGGCCCTTGGGGAGCCGATTGAAGAGGGCGTCCCACAGTTCCCTG
GTCCTCATCTCGTCTGGAAAGTCTGACGATGAGGTGGTCTGCCGGCGGTGGAGCTCAAGCAGTTTGGCGTGGCC
CCTTTCACGATCGCCAGGAACGCAGACCAGGAGGAGCTGGTGAAGATCTCGCTGAGCCCCGAATATGTGTTCTCG
GTGAGCACCTTCCGGGAGCTGCCCAGCCTGGAGCAGAACTGCTGACGCCCATCACGACCTGACCTCAGAGCAG
ATCCAGAAGCTCTTAGCCAGCACTCGCTATCCACCTCCAGTGCGAGAGTTTCAAGAGAGCTTCCCAACATAGAAGAA
AGAATCATGAAGTCTGTTTGGACCCCTCCGCAGCCACTCCTGCACCTCCAGGGGTGGACACCCCTCCTCCTCACGG
CCAGAGAAGAAGAAAGCAGACATTGTGTTCTGTTGGATGGTTCCATCAACTTCAGGAGGGACAGTTTCCAGGAA
GTGCTTCGTTTGTGTCTGAAATAGTGGACACAGTTTATGAAGATGGCGACTCCATCCAAGTGGGGCTTGTCCAG
TACAACTCTGACCCCACTGACGAATTCTTCTGAAAGGACTTCTCTACCAAGAGGCAGATTATTGACGCCATCAAC
AAAGTGGTCTACAAAGGGGGAAGACACGCCAACACTAAGGTGGGCCTTGAGCACCTGCGGGTAAACCACTTTGTG
CCTGAGGCAGGCAGCCGCTGGACCAGCGGGTCCCTCAGATTGCCTTTGTGATCACGGGAGGAAAGTCCGTGGAA
GATGCACAGGATGTGAGCCTGGCCCTCACCCAGAGGGGGGTCAAAGTGTGTTGCTGTTGGAGTGAGGAATATCGAC
TCGGAGGAGGTTGGAAAGATAGCGTCCAACAGCGCCACAGCGTTCCGCGTGGGCAACGTCCAGGAGCTGTCCGAA
CTGAGCGAGCAAGTTTGGAACTTTGCATGATGCGATGATGAAACCCCTTTGCCCTGGTGTAACTGATGCTGCC
AAAGCTTGTAATCTGGATGTGATTCTGGGGTTTGTATGTTCTAGAGACCAGAATGTTTTTGTGGCCAGAAAGGGC
TTCGAGTCCAAGGTGGACGCCATCTTGAACAGAATCAGCCAGATGCACAGGGTCAGCTGCAGCGGTGGCCGCTCG
CCCACCGTGCCTGTGTGCTAGTGGTGGCCAACACGCCCTCGGGCCCGGTGGAGGCCTTTGACTTTGACGAGTACCAG
CCAGAGATGCTCGAGAAGTTCCGGAACATGCGCAGCCAGCACCCCTACGTCCTCACGGAGGACACCCTGAAGGTC
TACCTGAACAAGTTTACAGAGTCTCTCGCCGACAGCGTGAAGGTGGTCAATTCATTTTACTGATGGAGCAGACGGA
GATCTGGCTGATTTACACAGAGCATCTGAGAACCTCCGCCAAGAAGGAGTCCGTGCCTTGATCCTGGTGGGCCTT
GAACGAGTGGTCAACTTGGAGCGGCTAATGCATCTGGAGTTTGGGCGAGGGTTTATGTATGACAGGCCCCCTGAGG
CTTAACCTTGCTGGACTTGGATTATGAACTAGCGGAGCAGCTTGACAACATTGCCGAGAAAGCTTGCTGTGGGGTT
CCCTGCAAGTGCTCTGGGCAGAGGGGAGACCGCGGGCCCATCGGCAGCATCGGGCCAAAGGGTATTCTGAGGAA
GACGGCTACCGAGGCTATCCTGGTGATGAGGGTGGACCCGGTGAGCGTGGTCCGCTGGTGTGAACGGCACTCAA
GGTTTCCAGGGCTGCCCGGGCCAGAGAGGAGTAAAGGGCTCTCGGGGATTCCAGGAGAGAAGGGCGAAGTAGGA
GAAATTGGACTGGATGGTCTGGATGGTGAAGATGGAGACAAAGGATTGCCTGGTTCTTCTGGAGAGAAAGGGAAT
CCTGGAAGAAGGGGTGATAAAGGACCTCGAGGAGAGAAAGGAGAAAGAGGAGATGTTGGGATTGAGGGGACCCG
GGTAACCCAGGACAAGACAGCCAGGAGAGAGGACCCAAAGGAGAAACCGGTGACCTCGGCCCCATGGGTGTCCCA
GGGAGAGATGGAGTACCTGGAGGACCTGGAGAACTGGGAAGAATGGTGGCTTTGGCCGAAGGGGACCCCCCGGA
GCTAAGGGCAACAAGGGCGGTCTCGCCAGCCGGGCTTTGAGGGAGAGCAGGGGACCAGAGGTGCACAGGGCCCCA
GCTGGTCTCTGCTGGTCTCCAGGGCTGATAGGAGAACAAGGCATTTCTGGACCTAGGGGAAGCGGAGGTGCCCGT
GGCGCTCCTGGAGAACGAGGCAGAACCGGTCCACTGGGAAGAAAGGGTGAGCCCGGAGAGCCAGGACCAAAAGGA
GGAATCGGGAACCCGGGCCCCGTGGGGAGACGGGAGATGACGGGAGAGACGGAGTTGGCAGTGAAGGACGCAGA
GGCAAAAAAGGAGAAAGAGGATTTCTGGATACCCAGGACCAAGGGTAACCCAGGTGAACCTGGGCTAAATGGA
ACAACAGGACCCAAAGGCATCAGAGGCCGAAGGGGAAATTCGGGACCTCCAGGGATAGTTGGACAGAAGGGGAGA
CCTGGCTACCCAGGACAGCTGGTCCAAGGGGCAACAGGGGCGACTCCATCGATCAATGTGCCCTCATCCAAAGC
ATCAAAGATAAATGCCCTTGCTGTTACGGGCCCCCTGGAGTGCCCCGTCTTCCCAACAGAACTAGCCTTTGCTTTA
GACACCTCTGAGGGAGTCAACCAAGACATTTTCGGCCGGATGCGAGATGTGGTCTTGAGTATTGTGAATGTCCTG
ACCATTGCTGAGAGCAACTGCCCGACGGGGGCCGGGTGGCTGTGGTCACTACAACAACGAGGTGACCACGGAG
ATCCGGTTTGTGACTCCAAGAGGAAGTCGGTCTCTCTGGACAAGATTAAGAACCTTCAGGTGGCTCTGACATCC

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FIGURE 212C

AAACAGCAGAGTCTGGAGACTGCCATGTCGTTTGTGGCCAGGAACACATTTAAGCGTGTGAGGAACGGATTCTTA
ATGAGGAAAGTGGCTGTTTTCTTCAGCAACACACCCACAAGAGCATCCCCACAGCTCAGAGAGGCTGTGCTCAAA
CTCTCAGATGCGGGGATCACCCCTTGTTCTTACAAGGCAGGAAGACCGGCAGCTCATCAACGCTTTGCAGATC
AATAACACAGCAGTGGGGCATGCGCTTGCTGCTGCAGGGAGAGACCTCACAGACTTCCTGGAGAATGTCTC
ACGTGTCATGTTTGCTTGGACATCTGCAACATCGACCCATCCTGTGGATTGGCAGTTGGAGGCCCTTCCTTCAGG
GACAGGAGAGCGGCAGGGAGTGATGTGGACATCGACATGGCTTTCATCTTAGACAGCGCTGAGACCACCACCTG
TTCCAGTTCAATGAGATGAAGAAGTACATAGCGTACCTGGTCAGACAACCTGGACATGAGCCAGATCCCAAGGCC
TCCCAGCACTTCGCCAGAGTGGCAGTTGTGACAGCAGCGCCCTCTGAGTCCGTGGACAATGCCAGCATGCCACCT
GTGAAGGTGGAATTTCTCCCTGACTGACTATGGCTCCAAGGAGAAGCTGGTGGACTTCCTCAGCAGGGGAATGACA
CAGTTGCAGGGAACCAAGGGCCTTAGGCAGTGCCATTGAATACCCATAGAGAATGTCTTTGAAAGTGCCCCAAAC
CCACGGGACCTGAAAATTGTGGTCTGATGCTGACGGGCGAGGTGCCGGAGCAGCAGCTGGAGGAGGCCAGAGA
GTCATCCTGCAGGCCAAATGCAAGGGCTACTTCTTCGTGGTCTCGGCATTGGCAGGAAGGTGAACATCAAGGAG
GTATACACCTTCGCCAGTGAGCCAAACGACGCTTCTTCAAATTAGTGGACAAGTCCACCGAGCTCAACGAGGAG
CCTTTGATGCGCTTCGGGAGGCTGTTGCCGTCCTTCGTGACAGTGAAAATGCTTTTTACTTGTCCCCAGATATC
AGGAAACAGTGTGATTGGTTCCAAGGGGACCAACCCACAAAGAACCTTGTGAAGTTTGGTCACAAACAAGTAAAT
GTTCCGAATAACGTTACTTCAAGTCTTACATCCAACCCAGTGACGACAACGAAGCCGGTGACTACGACGAAGCCG
GTGACCACCACAACAAAGCCTGTAACCACCACAACAAAGCCTGTGACTATTATAAATCAGCCATCTGTGAAGCCA
GCCGCTGCAAAGCCGGCCCTGCGAAACCTGTGGCTGCCAAGCCTGTGGCCACAAAGACGGCCACTGTTAGACCC
CCAGTGGCGGTGAAGCCAGCAACAGCAGCGAAGCCTGTAGCAGCAAAGCCAGCAGCTGTAAGACCCCCGCTGCT
GCTGCAAAACAGTGGCGACCAAGCCTGAGGTCCCTAGGCCACAGGCAGCCAAACAGCTGCCACCAAGCCAGCC
ACCACTAAGCCCGTGGTTAAGATGCTCCGTGAAGTCCAGGTGTTTGAAGATAACAGAGAACAGCGCCAAACTCCAC
TGGGAGAGGCCTGAGCCCCCGGTCCTTATTTTATGACCTCACCGTCACCTCAGCCCATGATCAGTCCCTGGTT
CTGAAGCAGAACCTCACGGTCACGGACCGCTCATTGGAGGCCTGCTCGCTGGGCAGACATACCATGTGGCTGTG
GTCTGCTACCTGAGGTCTCAGGTGAGAGCCACCTACCACGGAAGTTTCAGTACAAAGAAATCTCAGCCCCACCT
CCACAGCCAGCAAGGTGAGCTTCTAGTTCAACCATCAATCTAATGGTGAGCACAGAACCATTGGCTCTCACTGAA
ACAGATATATGCAAGTTGCCGAAAGACGAAGGAACCTGCAGGGATTCATATTAAATGGTACTATGATCCAAAC
ACCAAAAGCTGTGCAAGATTCTGGTATGGAGGTGTGGTGGAAACGAAACAAATTTGGATCACAGAAAGAATGT
GAAAAGGTTTGGCTCCTGTGCTCGCCAAACCCGAGTCATCAGTGTGATGGGAACCTAAGCGTGGGTGGCCAAC
ATCATATACCTCTTGAAGAAGAAGGAGTCAGCCATCGCCAACTGTCTCTGTAGAAGCTCCGGGTGTAGATTCCC
TTGCACTGTATCATTTCATGCTTTGATTTTACACTCGAACTCGGGAGGGAACATCCTGCTGCATGACCTATCAGTA
TGGTGCTAATGTGTCTGTGGACCCTCGCTCTCTGTCTCCAGCAGTTCTCTCGAATACTTTGAATGTTGTGTAACA
GTTAGCCACTGCTGGTGTGTTATGTGAACATTCTATCAATCCAAATTCCTCTGGAGTTTCATGTTATGCCTGTT
GCAGGCAAATGTAAAGTCTAGAAAATAATGCAAATGTCACGGCTACTCTATATACTTTTGCTTGGTTTCAATTTTT
TTCCCTTTTAGTTAAGCATGACTTTAGATGGGAAGCCTGTGTATCGTGGAGAAACAAGAGACCAACTTTTTTCAAT
CCCTGCCCCCAATTTCCAGACTAGATTTCAAGCTAATTTTCTTTTTCTGAAGCCTCTAACAATGATCTAGTTC
AGAAGGAAGCAAAATCCCTTAATCTATGTGCACCGTTGGGACCAATGCCTTAATTAAAGAATTTAAAAAAGTTGT
AATAGAGAATATTTTTGGCATTCTCTCAATGTTGTGTGTTTTTTTTTTTTTGTGTGCTGGAGGGAGGGGATTAA
TTTTAATTTTAAATGTTTAGGAAATTTATACAAAGAACTTTTTAATAAAGTATATTGAAAGTTTAAAAA
AAAAAA

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FIGURE 213

MRKHRHLPLVAVFCLFLSGFPTTHAQQQQADVKNAAADIIFLVDSSWTIGEEHFQLVREFLYDVVKS LAVGEND
FHFALVQFNNGNPHTFLLNTYRTKQEVLSHISNMSYIGGTNQTGKGLEYIMQSHLTAAAGSRAGDGVPQVIVVLT
DGHSKDGLALPSAELKSADVNVFAIGVEDADEGALKEIASEPLNMHMFNLENFTSLHDIVGNLVCVHSSVSPER
AGDTETLKDITAQDSADIIFLIDGSNNTGSVNFAVILDFLVNLEKLP IGTQQIRVGVVQFSDEPRTMFSLDTYS
TKAQVLGAVKALGFAGGELANIGLALDFVVENHFTAGGSRVEEGVPQVLVLISAGPSSDEIRYGVVALKQASVF
SFGGLGAQAASRAELQHIATDDNLVFTVPEFRSFGDLQEKLLPYIVGVAQRHIVLKPPTIVTQVIEVNKRDIVFLV
DGSSALGLANFNAIKDFIAKVIQRLIEIGQDLIQVAVAQYADTVRPEFYFNTHPTKREVITAVRKMKPLDGSALYT
GSALDFVRNNLFTSSAGYRAAEGIPKLLVLITGGKSLDEISQPAQELKRSSIMAFAGNKGADQAELEEIAFDSS
LVFIPAEFRAAPLQGMPLGLLAPLRTLSTGTPVEVHSNKRDIIFLLDGSANVGKTNFPYVRDFVMNLVNSLDIGNDN
IRVGLVQFS DTPVTEFSLNTYQTKSDILGHLRQLQLQGSGSLNTGSALS YVYANHFTEAGGSRIREHVPQLLLLL
TAGQSEDSYLQAANALTRAGILTCV GASQANKAELEQIAFNPSLVYLMDDFSSLPALPQQLIQPLTTYVSGGVE
EVPLAQPESKRDILFLFDGSANLVGQFPVVRDFLYKI IDELVNKP EGTRIAVAQYSDDVKVESRFDEHQSKPEIL
NLVKRMKIKTGKALNLGYALDYAQR YIFVKSAGSRIEDGVLFVLLVAGRSSDRVDGPASNLKQSGVVPFFIFQA
KNADPAELEQIVLSPAFILAAESLPKIGDLHPQIVNLLKSVHNGAPAPVSGEKDVVFLLDGSEGVRS GFPLLKEF
VQRVVESLDVGQDRVRVAVVQYSDRTRPEFYLN SYMNKQDVVNAVRLTLLGGPTPNTGAALFVLNRN ILVSSAG
SRITEGVPQLLIVLTADRSGDDVRNPSVVVKRGGA VPIGIGIGNADITEMQTISFIPDFAVAIPTFRQLGT VQQV
ISERV TQLTREELSRLQPVLPSPGCVGKRDVFLIDGSQSAGPEFYVRTLIERLVDYLDVGFDTRVAVIQ
FSDDPKAEFL LNAHSSKDEVQNAVQRLRPKGGRQINVGNALEYVSRNIFKRPLGSRIEEGVPQFLVLISSGKSDD
EVVVP AVELKQFGVAPFTIARNADQEELVKISLSPEYVFSVSTFRELP SLEQKLLTPITTLTSEQIQKLLASTRY
PPPVR EFREL PNIEERIMNSFGPSAATPAPP GVDTPPPSRPEKKKADIVFLLDGSINFRRDSFQEV LRFVSEIVD
TVYEDGDSIQVGLVQYNSDPTDEFFLKDFSTKRQIIDAINKV VYKGGRHANTKVGLEHLRVNH FVPEAGSRLDQR
VPQIAFVITGGKSVEDAQDVSLALTQRGV KVFAGVVRNIDSEEVGKIASNSATAFRVGNVQELSE LSEQVLETLH
DAMHETLCPGVTDAAKACNLDVILGFDGSRDQNVFVAQKGFESKVDAILNRISQMHRVSCSGGRSPTVRVSVVAN
TPSGPVEAFDFDEYQPEMLEKFRNMRSQHPYVLTEDTLKVYLNKFRQSSPD SVKVVIHFTDGADGDLADLHRASE
NLRQEGVRALILVGLERVVNLERLMHLEFGRGFMYDRPLRLNLLDLDYELAEQLDNIAEKACCGVPCKCSGQRGD
RGPIGSIGPKGIPGEDGYRGYPGDEGGPGERGPPGVNGTQGFQGC PGQRGVKGSRGFFPGEKGEVGEIGLDGLDGE
DGDKGLPGSSGEKGNPGRRGDKGPRGEKGERGDVGIRGDPGNPQDSQER

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FIGURE 214

GTTGGTGAGCATCATGGCAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCG
AATCGGTGCCCCACTCCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCAT
GGTGGGTGAGCTGGCGGCACGGCGGGCGGCTGGCGTGCTGGAGATGATCCGGGAAGGGAAGATTGCCGGTCG
GGCAGTCCTTATTGCTGGCCAGCCGGGCACGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCCTGGGCCC
TGACACGCCATTACAGCCATCGCCGGCAGTGAAATCTTCTCCCTGGAGATGAGCAAGACCGAGGCGCTGACGCA
GGCCTTCCGGCGGTCCATCGGCGTTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGGGAGGTGGTGGAGATCCA
GATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAAC TGACCCTCAAGACCACAGAGATGGAGACCAT
CTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGTCCAGGCCGGGGACGTGATCACCATCGA
CAAGGCGACGGGCAAGATCTCCAAGCTGGGCGCTCCTTCACACGCGCCCGCGACTACGACGCTATGGGCTCCCA
GACCAAGTTTCGTGCAGTGCCAGATGGGGAGCTCCAGAAACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGA
GATCGACGTCACTCACTCTCGCACCCAGGGCTTCCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGA
AGTCCGTGAGCAGATCAATGCCAAGGTGGCTGAGTGGCGCGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGCT
GTTTCATCGACGAGGTCCACATGCTGGACATCGAGAGCTTCTCCTTCTCAACCGGGCCCTGGAGAGTGACATGGC
GCCTGTCTTGATCATGGCCACCAACCGTGGCATCACGCGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCAT
CCCCATAGACCTGCTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAGACACGAAGCAGATCCT
CCGCATCCGGTGCAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGCTGACCCGCATCGGGCTGGA
GACGTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGAAACGCAAGGGTACAGAAGT
GCAGGTGGATGACATCAAGCGGGTCTACTCACTCTTCTGGACGAGTCCCGCTCCACGCAGTACATGAAGGAGTA
CCAGGACGCCTTCTCTTCAACGAAC TCAAAGGCGAGACCATGGACACCTCCTGAGTTGGATGTATCCCCCGAC
CCCACCCTGTTTTCCACCAGAGTTCTGACACTGTGACTCTGTATAAAATGGTTGGGAAGCTGC

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FIGURE 215

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVLEMIREGKIAGRAVLI
AGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIIIEGEVVEIQIDRP
ATGTGSKVGKLTTLKTTMETIYDLGTMIESLTKDKVQAGDVITIDKATGKISKLGSRFTRARDYDAMGSQTKFV
QCPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDE
VHMLDIESFSFLNRALES DMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTKQILRIRC
EEEDVEMSEDAYTVLTRIGLETSRLRYAIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESSTQYMKEYQDAF
LFNELKGETMDTS

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FIGURE 216

GAGCAGCGCGGCCTGACGGGACCAAGGCGGCGGGAGTCTGCGGTCGTTCCCTCGGCTGTGGACCGGGCGGCACGC
ACGCGGTGCAGGGTAACATGCGGGATGCGGAAGTAATTATTTTGCCAAAGAAACATAAGAAGAAAAAGGAGCGGA
AGTCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCTGAATCCAAAGTTG
CTAAGTTGGACACGTCTCAGTGGCCCCCTTTTGCTAAAGAATTTTGATAAGCTGAATGTAAGGACAACACACTATA
CTTGCATGTGGTTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTCATTAATCTTG
CCCTCTAACCCCTCTTCCCATGAGGTGGTAGCCTGGATTTCGACGGATACTTCGGGTGGAGAAGACAGGGC
TGGTACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAGCCACTCGCTTGGTGAAGT
CAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGTCCGGCTGCACAATGCTATTGAAGGGGGGACCCAGCTTT
GGCCCTAGAACTCTGACAGGTGCCTTATTCCAGCGACCCCCACTTATTGCTGCAGTAAAGAGGCAGCTCC
GAGGACCATCTACGAGAGCAAAATGATTGAATACGATCCTGAAAGAAGATTAGGAATCTTTTGGGTGAGTT
GGCTGGCACCTACATTTCGGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTCAGATGCAGG
TCGGAGGGTTCGTTCTGGAGTCATGAGTGAAGAGGACCACATGGTGACAATGCATGATGTGCTTGATGCTC
GGCTGTATGATAACCACAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCTTTGGAAAAGCTGTTGACAT
ATAAACGGCTGGTTATGAAAGACAGTGCAGTAAATGCCATCTGCTATGGGGCCAAGATTATGCTTCCAGGTG
TTTTCGATATGAGGACGGCATTGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAAGGAGAAGCAATCTGCA
TGGCTATTGCATTAATGACCACAGCGGTCTCTCTACCTGCGACCATGGTATAGTAGCCAAGATCAAGAGAGTGA
TCATGGAGAGAGACACTTACCCTCGGAAGTGGGGTTTAGGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGC
AGGGCCTTCTGGACAAGCATGGGAAGCCCACAGACAGCACACCTGCCACCTGGAAGCAGGAGTATGTTGACTACA
GTGAGTCTGCCAAAAAAGAGGTGGTTGCTGAAGTGGTAAAGCCCCGAGGTAGTTGCCGAAGCAGCAAAAAGT
CGAAGCGGAAGCGAGAGAGTGAAGTGAAGTGACGAGACTCCTCCAGCAGCTCCTCAGTTGATCAAGAAGGAAA
AGAAGAAGAGTAAGAAGGACAAGAAGGCCAAAGCTGGTCTGGAGAGCGGGGCCGAGCCTGGAGATGGGGACAGTG
ATACCACCAAGAAGAAGAAGAAGAAGAAGCAAAAGAGGTAGAATTGGTTTCTGAGTAGTGAAGGCCACTTG
AAGCTGGAGGAGAACTAAAGCCTTATTGAGAAAACATGTTATAGATCCTTTTGTGCTGAGAGAGTGGAACATA
GGTCCTAGACAGGGTGAAGAGTTCTGGCACATTTTAGCTGCTACTTTGAGACCTCGGTGATGTTACCTGGTGTGG
TCATCCCATCTTGTCTGTTTTAAGGATATGGGTGGTGAAAGATGAAAGAGGCAGAGTTTATCCCAATGACTTCT
CTGTTTGAGTTGGGAAGCCTCACCTTCAGACCCAGTAACTGTCCGCAGCTGTCTGCTAGTGGTTGTCTTAACATC
GTAGTCCTAGTTTGCATTTTTTAAATCCCCTCTGTTTAAAGGTTTGTAAACAAAAACAAAAACTAAGTCTGC
TCAGTGAAATGCTGTAGAACCCTAAATAAGTGGTAGAAGAGTGCTACTGAATTTTGTCTCTGAATTCAGTATAAC
TGAGTTTTGTCCATGCTGGTGTCTGGGTTATAGGCCTGATGGGCCTGGTAGTTTTCCATCTTGTTCTGGCCTAGA
GGTCAGTCCTTTGCACCTCCTCAAAGCTTGTGTACAGTGCTCACCTAAATCCATCTGACTACTTGTTTCTGTGCC
CTCTTGTTTTAGGCCTCGTTTACTTTTTAAAAATGAAATTGTTTATTGCTGGGAGAAGAATGTTGTAATTTTTAC
TTATTAAAGTCAACTTGTTAAGTTTTTTATGTATTCCTGTTGGGTTTTCTTGTTGATCTCATGCTAGCAGAGCAA
AAATTGTAAATATTTTGATTAAAAATCTAGGGACCTTTATGTCCTATTTGGAATTCGATATCAA

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FIGURE 217

MADAEVIILPKKHKKKKERKSLPEEDVAEIQHAEFLIKPESKVAKLDTSQWPLLLKNFDKLNVRTTHYTPLACG
SNPLKREIGDYIRTGFINLDKPSNPFSSHEVVAWIRRIIRVEKTGHSGTLDPKVTGCLIVCIERATRLVKSQQSAG
KEYVGIVRLHNAIEGGTQLSRALETITGALFQRPPLIAAVKRQLRVRTIYESKMI EYDPERRLGIFWVSCEAGTY
IRTLCVHLGLLLGVGGQMQLRRVRSGVMSEKDHMTMHDVLD AQWLYDNHKDESYLRRVVYPLEKLLTSHKRLV
MKDSAVNAICYGAKIMLPGLRYEDGIEVNQEIVVITTKGEAICMAIALMTTAVISTCDHGIVAKIKRVIMERDT
YPRKWGLGPKASQKKLMIKQGLLDKHGKPTDSTPATWKQEYVDYSESAKKEVVAEVVKAPQVVAEAAKTAKRKRE
SESESEDETPPAAPQLIKKEKKKSKDKKAKAGLESGAEPGDGSDTTKKKKKKKKAKEVELVSE

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FIGURE 218

TCTGGGCGCGCGCGACGTCAGTTTGTAGTTCTGTGTTCTCCCCGCCCGTGTCCCGCCCGACCCGCGCCCGCGATGC
TGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCCTGCTCTCCGTCCCGCGCTCCGTGCCGCTGCGCCTCCCCGCGG
CCCCGCGCTGCAGCAAGGGCTCCGGCGACCCGTCTCTCTCTCTCTCCGGGAACCCGCTCGTGTACCTGGACG
TGGACGCCAACGGGAAGCCGCTCGGCCGCGTGGTGTGGAGCTGAAGGCAGATGTCGTCCCAAAGACAGCTGAGA
ACTTCAGAGCCCTGTGCACTGGTGAGAAGGGCTTCGGCTACAAAGGCTCCACCTTCCACAGGGTGATCCCTTCCT
TCATGTGCCAGGCGGGCGACTTCACCAACCACAATGGCACAGGCGGGAAGTCCATCTACGGAAGCCGCTTTTCCTG
ACGAGAACTTTTACACTGAAGCACGTGGGGCCAGGTGTCCTGTCCATGGCTAATGCTGGTCCCTAACACCAACGGCT
CCCAGTTCTTTCATCTGCACCATAAAGACAGACTGGTTGGATGGCAAGCATGTTGTGTTCCGGTCACGTCAAAGAGG
GCATGGACGTCGTGAAGAAAATAGAATCTTTCGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTCATCACAG
ACTGTGGCCAGTTGAGCTAAATCTGTGGCCAGGGTGTGGCATGGTGGCAGCTGCAAATGTCCATGCACCCAGGTG
GCCGCGTTGGGCTGTGAGCCAAGGTGCCTGAAACGATACGTGTGCCCACTCCACTGTCACAGTGTGCCTGAGGAA
GGCTGCTAGGGATGTTAGACCTCGGCCAGGACCCACCACATTGCTTCCTAATACCCACCCTTCCTCACGACCTCA
TTTCTGGGCATCTTTGTGGACATGATGTCACCCACCCCTTGTCAAGCATTGCCTGTGATTGCCAGCCAGATTCT
ATCTGTGCCTTGGACATGGTGATGGTGTGGGTTGCCATCCAAGTGAAAGTCTTTTCCTTGACCAAGGGGGACAG
TCAGTTTTGCAAAGGACTCTAATACCTGTTTAATATTGTCTTCCTAATTGGGATAATTTAATTAACAAGATTGA
CTAGAAGTGAACTGCAACACTAATTCCTCCCGTGTGTGGTGTGACCTGAGTTGGTGACACAGGCCACAGACCCC
AGAGCTTGGCTTTTGAAACACAATCAGGGCTTTTGTGAAGGTTCCCCCGCTGAGATCTTTCCTCCTGGTTACTG
TGAAGCCTGTTGGTTTGCTGCTGTCGTTTTTGTAGGAGGGCCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAA
CCTCACTTGAGCTGTGCCTAGACAATGTGAATTCCTGTGTTGCTAACAGAAAGTGGCCTGTAAGCTCCTGTGCTCC
GGAGGGAAGCATTTCCTGGTAGGCTTTGATTTTTCTGTGTGTTAAAGAAATTCAATCTACTCATGATGTGTTATG
CATAAAACATTTCTGGAACATGGATTTGTGTTACCTTAAATGTGAAAATAAATCCTATTTTCTATGGAAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 219

MLALRCGSRWLGLLSVPRSVPLRLPAARACSKGSGDPSSSSSSGNPLVYLDVDANGKPLGRVVLELKADVVPKTA
ENFRALCTGEKGFYKGSTFHRVIPSFMCQAGDFTNHNGTGGKSIYGSRFPDENFTLKHVGPVLSMANAGPNTN
GSQFFICTIKTDWLDGKHVVFGHVKEGMDVVKKIESFGSKSGRTSKKIVITDCGQLS

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FIGURE 220

TCTGGGCGCGCGCGACGTCAGTTTGTAGTTCTGTGTTCTCCCCGCCCCGTGTCCCGCCCCGACCCGCGCCCCGCGATGC
TGGCGCTGCGCTGCGGCTCCCGCTGGCTCGGCCTGCTCTCCGTCCCCGCGCTCCGTGCCGCTGCGCCTCCCCGCGG
CCCGCGCCTGCAGCAAGGGCTCCGGCGACCCGTCTCTTCTCTCTCTCCGGGAACCCGCTCGTGTACCTGGACG
TGGACGCCAACGGGAAGCCGCTCGGCCGCGTGGTGTGAGCTGAAGGCAGATGTCGTCCCAAAGACAGCTGAGA
ACTTCAGAGCCCTGTGCACTGGTGAGAAGGGCTTCGGCTACAAAGGCTCCACCTTCCACAGGGTGATCCCTTCCT
TCATGTGCCAGGCGGGCGACTTCACCAACCACAATGGCACAGGCGGGAAGTCCATCTACGGAAGCCGCTTTCCTG
ACGAGAACTTTTACACTGAAGCACGTGGGGCCAGGTGTCTGTCCATGGCTAATGCTGGTCCTAACACCAACGGCT
CCCAGTTCTTCATCTGCACCATAAAGACAGACTGGTTGGATGGCAAGCATGTTGTGTTTCGGTCACGTCAAAGAGG
GCATGGACGTCGTGAAGAAAATAGAATCTTTCGGCTCTAAGAGTGGGAGGACATCCAAGAAGATTGTCATCACAG
ACTGTGGCCAGTTGAGCTAATCTGTGGCCAGGGTGCTGGCATGGTGGCAGCTGCAAATGTCCATGCACCCAGGTG
GCCGCGTTGGGCTGTGAGCCAAGGTGCCTGAAACGATACGTGTGCCCACTCCACTGTCACAGTGTGCCTGAGGAA
GGCTGCTAGGGATGTTAGACCTCGGCCAGGACCCACCACATTGCTTCCTAATACCCACCCTTCCTCACGACCTCA
TTTCTGGGCATCTTTGTGGACATGATGTCACCCACCCCTTGTCAAGCATTGCCTGTGATTGCCCAGCCCAGATT
ATCTGTGCCTTGGACATGGTGATGGTGATGGGTTGCCATCCAAGTGAAAGTCTTTTCCTTGACCAAGGGGGACAG
TCAGTTTTGCAAAGGACTCTAATACCTGTTAATATTGTCTTCCTAATTGGGATAATTTAATTAACAAGATTGA
CTAGAAGTGAACTGCAACACTAACTTCCCCGTGCTGTGGTGTGACCTGAGTTGGTGACACAGGCCACAGACCCC
AGAGCTTGGCTTTTGAACACAACCTCAGGGCTTTTGTGAAGGTTCCCCCGCTGAGATCTTTCCTCCTGGTTACTG
TGAAGCCTGTTGGTTTGTGCTGCTGCTGTTTTTGTAGGAGGGCCCATGGGGGTAGGAGCAGTTGAACCTGGGAACAAA
CCTCACTTGAGCTGTGCCAGACAATGTGAATTCCTGTGTTGCTAACAGAAGTGGCCTGTAAGCTCCTGTGCTCC
GGAGGGAAGCATTTCCTGGTAGGCTTTGATTTTTCTGTGTGTTAAAGAAATTCAATCTACTCATGATGTGTTATG
CATAAAACATTTCTGGAACATGGATTTGTGTTACCTTAAATGTGAAAATAAATCCTATTTTCTATGGAAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 221

MLALRCGSRWLGLLSVPRSVPLRLPAARACSKGSGDPSSSSSSGNPLVYLDVDANGKPLGRVVLELKADVVPKTA
ENFRALCTGEKGFYKGSTFHRVIPSFMCQAGFTNHNGTGGKSIYGSRFPDENFTLKHVGPVLSMANAGPNTN
GSQFFICTIKTDWLDGKHVVFGHVKEGMDVVKKIESFGSKSGRTSKKIVITDCGQLS

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FIGURE 222

TGCGCCGTCCCGCCCGCCAGCGCCCCAGCGAGGAAGCAGCGCGCAGCCCCGCGGCCAGCGCACCCGCAGCAGCG
CCCGCAGCTCGTCCGCGCCATGTTCCAGGCGGCCGAGCGCCCCCAGGAGTGGGCCATGGAGGGCCCCCGCGACGG
GCTGAAGAAGGAGCGGCTACTGGACGACCGCCACGACAGCGGCCTGGACTCCATGAAAGACGAGGAGTACGAGCA
CATGGTCAAGGAGCTGCAGGAGATCCGCCTCGAGCCGCAGGAGGTGCCGCGCGGCTCGGAGCCCTGGAAGCAGCA
ACCGAGGACGGGGACTCGTTCCCTGCACTTGGCCATCATCCATGAAGAAAAGGCACTGACCATGGAAGTGAT
AGGTGAAGGGAGACCTGGCTTTCTCAACTTCCAGAACAACCTGCAGCAGACTCCACTCCACTTGGCTGT
ACCAACCAGCCAGAAATTGCTGAGGCACTTCTGGGAGCTGGCTGTGATCCTGAGCTCCGAGACTTTTCGAGG
AATACCCCCCTACACCTTGCTGTGAGCAGGGCTGCCTGGCCAGCGTGGGAGTCTTGACTCAGTCTGCACCAC
CACCTCCACTCCATCCTGAAGGCTACCAACTACAATGGCCACACGTGTCTACACTTAGCCTCTATCCATGG
CTGGGCATCGTGGAGCTTTTGGTGTCTTGGGTGCTGATGTCAATGCTCAGGAGCCCTGTAATGGCCGGAC
CTTACCTCGCAGTGGACCTGCAAAATCCTGACCTGGTGTCACTCCTGTTGAAGTGTGGGGCTGATGTCAA
AGTTACCTACCAGGGCTATTCTCCCTACCAGCTCACCTGGGGCCGCCAAGCACCCGGATACAGCAGCAGCT
ACAGCTGACACTAGAAAACCTTCAGATGCTGCCAGAGAGTGAGGATGAGGAGAGCTATGACACAGAGTCAGA
CACGGAGTTCACAGAGGACGAGCTGCCCTATGATGACTGTGTGTTTGGAGGCCAGCGTCTGACGTTATGAGT
AAAGGGGCTGAAAGAACATGGACTTGTATATTTGTACAAAAAAAAGTTTTATTTTCTAAAAAAGAAAAA
GAAGAAAAAATTTAAAGGGTGTACTTATATCCACACTGCACACTGCCTAGCCCCAAACGTCTTATTGTGGTAGGA
TCAGCCCTCATTTTGTGCTTTTGTGAACTTTTGTAGGGGACGAGAAAGATCATTGAAATTCTGAGAAAACCTC
TTTTAAACCTCACCTTTGTGGGTTTTTGGAGAAGGTTATCAAAAATTTTATGGAAGGACCACATTTTATATTTA
TTGTGCTTCGAGTGACTGACCCAGTGGTATCCTGTGACATGTAACAGCCAGGAGTGTTAAGCGTTCAGTGATGT
GGGGTGAAAGTTACTACCTGTCAAGGTTTTGTGTTACCCTCCTGTAAATGGTGTACATAATGTATTGTTGGTAAT
TATTTTGGTACTTTTATGATGTATATTTATTAAAGAGATTTTACAAATG

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FIGURE 223

MFQAAERPQEWAMEGPRDGLKKERLLDDRHD SGLDSMKDEEYEQMVKELQEIRLEPQEVPRGSEPWKQQLTEDGD
SFLHLAI IHEEKALTMEVIRQVKGDLAFLNFQNNLQOTPLHLAVITNQPEIAEALLGAGCDPELRDFRGNTPLHL
ACEQGCLASVGVLTQSCTTPHLHSILKATNYNGHTCLHLASIHGYLGIVELLVSLGADVNAQEP CNGRTALHLAV
DLQNPDLVSLLLKCGADVNRVTYQGYSPIYQLTWGRPSTRIQQQLGQLTLENLQMLPESEDEESYDTESEFTEFTE
DELPYDDCVFGGQRLTL

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FIGURE 224

CGGCGGAGCTGGTCCCGTTGTGCTGCGGCGCCGCGCGGCCCTGCAGTCCCGGGCCCCGCGCCCCGCGCCGCCGCC
GCCCCGCCATGGAGCCCCGGCCCCGACGGCCCCGCGCCTCCGGCCCCGCGCCATCCGCGAGGGCTGGTTCCGCGA
GACCTGCAGCCTGTGGCCCCGGCCAGGCCCTGTGCTGCAGGTGGAGCAGCTGCTCCACCACCGGCGCTCGCGCTA
CCAGGACATCCTCGTCTTCCGCAGTAAGACCTATGGCAACGTGCTGGTGTGGACGGTGTTCATCCAGTGCACGGA
GAGAGACGAGTTCTCCTACCAGGAGATGATCGCCAACCTGCCTCTCTGCAGCCACCCCAACCCGCGAAAGGTGCT
GATCATCGGGGGCGGAGATGGAGGTGTCCTGCGGGAGGTGGTGAAGCACCCCTCCGTGGAGTCCGTGGTCCAGTG
TGAGATCGACGAGGATGTTCATCCAAGTCTCCAAGAAGTTCCCTGCCAGGCATGGCCATTGGCTACTCTAGCTCGAA
GGTGACCCTACATGTGGGTGACGGTTTTGAGTTCATGAAACAGAATCAGGATGCCTTCGACGTGATCATCACTGA
CTCCTCAGACCCCATGGGCCCCGCGGAAAGTCTCTTCAAGGAGTCCTATTACCAGCTCATGAAGACAGCCCTCAA
GGAAGATGGTGTCTCTGCTGCCAGGGCGAGTGCGAGTGGGTGCACCTGGACCTCATCAAGGAGATGCGGCAGTT
CTGCCAGTCCCTGTTCCCCGTGGTGGCCTATGCCTACTGCACCATCCCCACCTACCCAGCGGCCAGATCGGCTT
CATGCTGTGCAGCAAGAACCCGAGCACGAACCTCCAGGAGCCGGTGCAGCCGCTGACACAGCAGCAGGTGGCGCA
GATGCAGCTGAAGTACTACAACCTCCGACGTGCACCGCGCCGCCCTTTGTGCTGCCCCGAGTTTGCCCGCAAGGCCCT
GAATGATGTGAGCTTGAGCCCCAGGCGCCACCCTGATGCCACCCAGGACCTCGGACCTTGGAGCCTGCGGGGTGCC
TCGGCCCCCTCCAGCCCCGGGCCGGACCTCCTGCTGGCTCTCGCCCCACCAACCAAGTGTACAGCCCCAGAATGC
TGCCCGGCCTGCCCTGCTGGGCGGACTGTCTGTGTGTCTGTCTCTGTGGCGTTCCACCTCCAAGCCTATACCAGC
TGTGTACAGCGCCATCTCTCTGCCTTCTGTTGCCCCG

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FIGURE 225

MEPGPDGPAASGPAAIREGWFRETCSLWPGQALSQVEQLLHRRRSRYQDILVFRSKTYGNVLVLDGVIQCTERD
EFSYQEMIANLPLCSHPNPRKVLIIIGGGDGGVLREVVKHPSVESVVQCEIDEDVIQVSKKFLPGMAIGYSSSKVT
LHVGDGFEEFMKQNQDAFDVIIITDSSDPMGPAESLFKESYYQLMKTALKEDGVLCCQGECEWLHLDLIKEMRQFCQ
SLFPVVAYAYCTIPTYPGQIGFMLCSKNPSTNFQEPVQPLTQQQVAQMLKYNSDVHRAAFVLPEFARKALND
VS

[illegible]

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FIGURE 227

MAGLPRIIKETQRLLAEPVPGIKAEPDESNARYFHVVIAGPQDSPFEGGTFKLELFLPEEYPMAAPKVREMTKI
YHPNVDKLGRICLDILKDKWSPALQIRTVLLSIQALLSAPNPDDPLANDVAEQWKTNEAQAIETARAWTRLYAMN
NI

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FIGURE 228

C1AGTTTCTAAGGATCATGTCTGCGAGCCAGGATTCCCGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGA
AGGCGTCATCGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCG
TGSCATCTACGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCGAGCCATTCTACCTTGTATCAAGGGTTA
TGATGTGATTGCTCAAGCCCAATCTGGGACTGGGAAAACGGCCACATTTGCCATATCGATTCTGCAGCAGATTGA
SATCTAAAAGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGT
GACTAGGAGACTACATGGGCGCCTCCTGTCACGCCTGTATCGGGGGCACCAACGTGCGTGCTGAGGTGCA
GTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTGGCCGTGTGTTTGATATGCTTAACCGGAGATA
CTGTCCCCCAAATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCA
TATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTCAGCCACAATGCCTTCTGATGT
GAGGTGACCAAGAAGTTCATGAGGGACCCATTCTGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGG
GCGCCAGTTCTACATCAACGTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCT
ATCACCCAGGCAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCG
ATTCACTGTATCCGCCATGCATGGAGATATGGACAAAAGGAACGAGACGTGATTATGAGGGAGTTTCGTTT
CTCTAGCAGAGTTTTGATTACCACTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
AACTATGACCTTCCACCAACAGGGAAAACATATACACAGAATCGGTTCGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCAT
TGAGGAAATGCCCTCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCACCCAGCCCCAGCCAGGGCTCAAT
CTCTGGGGGCTGAGGAGCAGCAGGAGGGGGGAGGGAAGGGAGCCAAGGGATGGACATCTTGTCAATTTTTTTTCTT
TGAATAAATGTCACTTTTTTGAGGCAAAAGAAGG

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FIGURE 229

MSASQDSRSRDNGPDGMEPEGVIESNWNEIVDSFDDMNLSESLLRGIYAYGF EKPSAIQQRAILPCIKGYDVIAQ
AQSGTGKTATFAISILQQIELDLKATQALVLAPTRELAQQIQKVVMALGDYMGASCHACIGGTNVRAEVQKLQME
APHIIVGTPGRVFDMLNRRYLSPKYIKMFVLDEADEMLSRGFKDQIYDIFQKLNSNTQVVLLSATMPSDVLEVTK
KFMRDPIRILVKKEELTLEGIRQFYINVEREEWKLDTLCDLYETLTITQAVIFINTRRKVDWLTEKMHARDFTVS
AMHGDMQKQKRDVIMREFRSGSSRVLITTDLLARGIDVQQVSLVINYDLPTNRENYIHRIGRGRFGRKGVA INM
VTEEDKRTL RDIETFYNTSIEEMPLNVADLI

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FIGURE 230

GCACGATGAGCTCAATCGGCACTGGGTATGACCTGTCAGCCTCTACATTCTCTCCTGACGGAAGAGTTTTTCAAG
TTGAATATGCTATGAAGGCTGTGGAAAATAGTAGTACAGCTATTGGAATCAGATGCAAAGATGGTGTTGTCTTTG
GGGTAGAAAAATTAGTCCTTTCTAACTTTATGAAGAAGGTTCCAACAAAAGACTTTTTTAATGTTGATCGGCATG
TTGGAATGGCAGTAGCAGGTTTGTGGCAGATGCTCGTTCTTTAGCAGACATAGCAAGAGAAGAAGCTTCCAAC
TCAGATCTAACTTTGGCTACAACATTCCACTAAAACATCTTGCAGACAGAGTGGCCATGTATGTGCATGCATATA
CACTCTACAGTGCTGTAGACCTTTTGGCTGCAGTTTCATGTTAGGGTCTTACAGTGTGAATGACGGTGCGCAAC
TCTACATGATTGACCCATCAGGTGTTTCATACGGTTATTGGGGCTGTGCCATCGGCAAAGCCAGGCAAGCTGCAA
AGACGGAAATAGAGAAGCTTCAGATGAAAGAAATGACCTGCCGTGATATCGTTAAAGAAGTTGCAAAAATAATT
ACATAGTACATGACGAAGTTAAGGATAAAGCTTTTGAAGTAACTCAGCTGGGTTGGTGAATTAATAATGGAA
GACATGAAATTGTTCCAAAAGATATAAGAGAAGAAGCAGAGAAATATGCTAAGGAATCTCTGAAGGAAGAAGATG
AATCAGATGATGATAATATGTAACATTTACTCCAGCATCTATTGTATTTTAAATTTCTACTCCAGTCCAATGTAA
CTATTTAGCCCTG

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FIGURE 231

MSSIGTGYDLSASTFSPDGRVFQVEYAMKAVENTSSTAIGIRCKDGVVFGVEKLVL SKLYEEGSNKRLFNVD RHVG
MAVAGLLADARSLADIAREEASNFRSNGYNIPLKHLADRVAMYVHAYTLYSAVRPFGCSFMLGSSVNDGAQLY
MIDPSGVSYGYWGCAIGKARQAAKTEIEKLQMKEMTCRDIVKEVAKIIYIVHDEVKDKAFELELSWVGELTNGRH
EIVPKDIREEAKEYAKESLKEEDESDDDNM

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FIGURE 232

ATTCTGAGCCGAGCCCGGTGCCAAGCGCAGCTAGCTCAGCAGGCGGCAGCGGCGGCCTGAGCTTCAGGGCAGCCA
GCTCCTCCCGGTCTCGCCTTCCTCGCGGTCAGCATGAAAGCCTTCAGTCCCGTGAGGTCCGTTAGGAAAAACAGC
CTGTCGGACCACAGCCTGGGCATCTCCCGGAGCAAACCCCTGTGGACGACCCGATGAGCCTGCTATACAACATG
AACGACTGCTACTCCAAGCTCAAGGAGCTGGTGCCAGCATCCCCAGAACAAGAAGGTGAGCAAGATGGAAATC
CTGCAGCACCTCATCGACTACATCTTGGACCTGCAGATCGCCCTGGACTCGCATCCCACTATTGTCAGCCTGCAT
CACCAGAGACCCGGGCAGAACCAGCGCTCCAGGACGCCGCTGACCACCCTCAACACGGATATCAGCATCCTGTCC
TTGCAGGCTTCTGAATTCCCTTCTGAGTTAATGTCAAATGACAGCAAAGCACTGTGTGGCTTGAATAAGCGGTGTT
CATGATTTCTTTTATTCTTTGCACAACAACAACAACAATTACGGAATCTTTAAGTGCTGAACTTATTTT
TCAACCATTTCACAAGGAGGACAAGTTGAATGGACCTTTT

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FIGURE 233

MKAFSPVRSVRKNSLSDHSLGISRSKTPVDDPMSLLYNMDCYSKLKELVPSIPQNKKVSKMEILQHLIDYILD
QIALDSHPTIVSLHHQRPQGNQRSRTPLTTLNTDISILSLQASEFPSELMSNDSKALCG

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FIGURE 234A

ATTGCAACACATGCAGCTGCCTGGAGAGAGGGAGCCGGTGTCTACGTCAGAGCCGCCGCCGCCGCGAGCCGCCG
C GGGGAGGAGCAGCCGCTGCCGCCCAGGACTGGGCCCTTAGGGAGGAGGAGGCGAGAAGATGGCGGACGACCCC
A BTGCTGCCGACAGGAACGTGGAGATCTGGAAGATCAAGAAGCTCATTAAAGAGCTTGGAGGCGCCCGGGCAAT
G GACACGATGATATCATTGATCATTCTCCCAAAGACCAGATTTACAGAGTGGCAAAAATGTTAGCGGATGAG
AACTGCATCTAACATTAAGTCACGAGTAAACCGCCTTTTCACTCCTGGGAGCCATTACATCTGTACAACAA
AAACTTTTATAACAAAGTACCTCCAAATGGTCTGGTTGTATACTGTGGAACAATTGTAACAGAAGAAGGA
AAAGAAAGTCAACATTGACTTTGAACCTTTCAAACCAATTAATACGTCATTGTATTTGTGTGACAACAAA
CATAACAGAGGCTCTTACAGCACTACTTTTCAATGATGATAGCAAGTTTGGATTTCATTGTAATAGATGGTAGTGGT
TTTTTGGCACACTCCAAGGAAACACAAGAGAAGTCTTGCACAAATTCAGTGTGGATCTCCCAAAGAAACAC
GAGGAGGTCAGTCAGCCTTTCGCTTTTGGCCGTTTAAAGATGGAAAAGCGACATAACTATGTTTCGGAAAGTA
GACTGCTGTGCAGCTGTTTATTTCTGGGGACAAAGTGAATGTGGCTGGTCTAGTTTTAGCTGGATCCGCT
TTAAACTGAACTAAGTCAATCTGATATGTTTGATCAGAGGTTACAATCAAAAGTTTTTAAATTAGTTGAT
TCTATGGTGGTGAATGGATTCAACCAAGCTATTGAGTTATCTACTGAAGTCTCTCCAACGTGAAATTC
AAGAGAAGAAATTAATAGGACGATACTTTGATGAAATCAGCCAGGACACGGGCAAGTACTGTTTTGGCGTT
CAGATACACTAAAGGCTTTGGAAATGGGAGCTGTAGAAATCTAATAGTCTATGAAATCTGGATATAATGAGA
TATGTTCTTTCATTGCCAAGGCACAGAAGAGGAGAAATTTCTCTATCTAATCCAGAGCAAGAAAAGGATAAATCT
CATTTACAGACAAAGAGACCGGACAGGAACATGAGCTTATCGAGAGCATGCCCTGTTGGAATGGTTTGCTAAC
AACTATAAAAAATTTGGAGCTACGTTGGAAATTTGTCACAGATAAATCACAAGAAGGGTCTCAGTTTGTGAAAGGA
TTTGGTGAATTTGGAGGTATCTTGGGTACCGAGTAGATTTCCAGGGAATGGAATACCAAGGAGGAGACGATGAA
TTTTTTGACCTTGATGACTACTAGGTAGTCGACATGGGTCCGGCAAAACGTGCCTCACCTCCAGCATCCAACCC
AAGGAGCATACCCATGGTGGAAATCCAACAGATCCCTGCCTTACAATTGGAACATTTCCAGAACTTAATCCATGA
GCATTGGATATTGAAAAGAAAACCGAAACAAAACAGACCCAGCCCTACACTTTGGTTTGTCTATGGTGTGACGCG
AGCAGCCTACAATAAGTTTCTTAAACGCCACTTTGGACTAATTTAAAAAAGAATCCCAGTTTTTACTTTTACTGG
ATGGTGAAATTTGGTTGCTCTTGTATTTTATGAAAAAATGATTTTTTTAACTTCATACATAGAAGCAAAAATA
CTTTAACTGCTGTAAACCTTCAAAGTTAATAGAAGTGAGATCATACTGGTTTGTCTTATTTTGTATTGGAGAA
AAATTAATTTGCTGCATTTTCGAGTGACCCATTTACATGGCATTCTCAGCTTAGACTGCGTAAGAAGAAATATAT
GTGGTGAAATGTTGGAACCATTTCTCTCTTGGTCTCTGTTTAAATGTTGAAAGGGTGAGCTAATAGGAGGCACTTT
CAACTTCACTCCCTCAGCTACCCCGTCCCTCCAGACTGGCAGTTTCAAGGATGCAATTTGCATTGCAAAATC
AACTGACTCATGAAGCATTGCGCCAGTGCAGTGTCTTACTTCCATCTGTTTGCAGACACATTTGTGCCCGGCGT
TTGGGAGCCCTTTGTATCAATGTTCTGACAAGGGTCCCTATAACCTTAACCTACTCGAAACCGGTTTGGGATGGA
TATGATGGGGCTTCTGTGCTATTGCTGGGATTGGGAGAAATAAAACATGCAATTTAAGTGAAGCGAAGAAATTT
AAAGAGGATTTTATTTTGTCTGGGTCAATCCTTGTAAAAAGGGAGGTGGATGTGTTTCTTGTGTTGGATGGCAT
GAGATTATGTGAATGTTTGTATTTATTAATAAGTGAAGTGTGTTTTCACAGGAACGACAGACATGTATGACTG
CATGTAATTATAAACTCCTGACCTCCTGGTGGGTTGGAGCATCTGTTTCAAATGTGGGACTTACAAGCACTTCT
CACATGAGAAATTAGGGGCGGGTGGGAAGGGATGGGACACAGCTTCTGGCACCATGGATTTAAGACCATGTTGGA
TCCAAAAGTTGGCCTGAAACCCCTGAAGCTGATGCTTACAGCTGGGCTGTAAGTCAGACTTGAACCCAGCTGATA
TGCAAGGTATGGCGTGCCAGGGTGGTGACAGTTGAACAAAGTGTATAGTACGTGCCAGTGGTAGCGATGGAAA
AAAGTATACCAAATGGACTTTGAAGGACCAAAGTTTTTAAAGTCAATTGGTATCACCTCCACACTGACTAGGGT
AGTGGGGTGCATTTGGTTTTCAAATGGGTACTTTTAACTTTAGTGCCTGACTGCTGTTTCTTTACTGACTTGA
TTCAGTCACTCGTAGCTTTATTTGGTCTGAACAGCTCCTTGTTCAGGTTACAGACCTGCCTATCGTTCCAATA
ATCCTGTTTCACTTGAATGAAGGGAGTATGTCTTAAATGTAAAGTTTCTGGTTCTCACACTGTACTCTGAGGTCC
AAATACTGTCTGTCAATGTGTAACCTGATGTCTCAACCCCTGTGAGAAGAGTCCATTATTTGGTGTTCACCAAC
GTGGGAGACTTCAACGGAAACAGGCTTTTTTGTCTTGGGCTCTGCTATTTGTTTGCAGAACACCAAGAGCGAGCA
AACACGCTCTCTTACAGCAGTACCTTAGGGTTTTGCCATTGTAAATGGGTCTGATGTGATATGACAAGACCAGA
GAAATTTGGATGTAAATTTACATTTTTGAATATGCTTGTGTTTTCACATGATACATTTAGGGTATGCAGCTCCTTT
TGATGTTTTTATTTTTACTATTTAAGTTTGGAAATGATGCCAAATTTTTGTATTTCTTAAATCAATGTGTTCTCT
TCGGTGATATATATTGCATTATATATTGATGTGTGTATCAATATATATTGATATGTATTACACTTACACATACAA
ACACATATAAGAGGGGTGAAAACCGTAGCCTTTGCATTCTCTATAGCCTCTGCAGAGAGATACTAAGCAGCAAA

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FIGURE 234B

ATCTTGGTGTGTGATGTACAGAAATGGAGAAGAGTATTAAACCATATTTAAG

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FIGURE 235

MADDPSAADRNVEIWKIKKLIKSLAARGNGTSMISLIIPPKDQISRVAKMLADEFGTASNIKSRVNRLSVLGAI
TSVQQRLKLYNKVPPNGLVVYCGTIVTEEGKEKKVNIDFEFFKPINTSLYLCDNKFHTEALTALLSDDSKFGFIV
IDGSGALFGTLQGNTREVLHKFTVDLPKKHGRGGQSALRFARLRMEKRHNYVRKVAETAVQLFISGDKVNVAGLV
LAGSADFKTELSQSDMFDQRLQSKVLKLVDISYGGENGFNQAIELSTEVLSNVKFIQEKKLIGRYFDEISQDTGK
YCFGVEDTLKALEMGAVEILIVYENLDIMRYVLHCQGTEEEKILYLTPEQEKDKSHFTDKETGQEHELIESMPLL
EWFANNYKKFGATLEIVTDKSQEGSQFVKGFGGIGGILRYRVDFQGMETQGGDDEFFDLDDY

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FIGURE 236

TGCTGCGAACCACGTGGGTCCCGGGCGCGTTTCGGGTGCTGGCGGCTGCAGCCGGAGTTCAAACCTAAGCAGCTG
GAAGGAACCATGGCCAACTGTGAGCGTACCTTCATTGCGATCAAACCAGATGGGGTCCAGCGGGGTCTTGTTGGA
GAGATTATCAAGCGTTTTGAGCAGAAAGGATTCCGCCTTGTGGTCTGAAATTCATGCAAGCTTCCGAAGATCTT
CTCAAGGAACACTACGTTGACCTGAAGGACCGTCCATTCTTTGCCGGCCTGGTGAAATACATGCACTCAGGGCCG
GTAGTTGCCATGGTCTGGGAGGGGCTGAATGTGGTGAAGACGGGCCGAGTCATGCTCGGGGAGACCAACCCCTGCA
GACTCCAAGCCTGGGACCATCCGTGGAGACTTCTGCATACAAGTTGGCAGGAACATTATACATGGCAGTGATTCT
GTGGAGAGTGCAGAGAAGGAGATCGGCTTGTGGTTTCACCCTGAGGAAGTGGTAGATTACACGAGCTGTGCTCAG
AACTGGATCTATGAATGACAGGAGGGCAGACCACATTGCTTTTCACATCCATTTCCCCTCCTTCCCATGGGCAGA
GGACCAGGCTGTAGGAAATCTAGTTATTTACAGGAAGTTCATCATAATTTGGAGGGAAGCTCTTGGAGCTGTGAG
TTCTCCCTGTACAGTGTTACCATCCCCGACCATCTGATTAAATGCTTCCTCCCAGC

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FIGURE 237

MANCERTFIAIKPDGVQ RGLVGEI IKRFEQKGFR LVGLKFMQASEDLLKEHYVDLKDRPFFAGLVKYMHS GPVVA
MVWEG LNVVKTGRV MLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVESAEKEIGLWFHPEELVDYTSCAQNWI
YE

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FIGURE 238

CCGCCATTTTGTGAGAAGCAAGGTGGCCTCCACGTTTCCTGAGCGTCTTCTTCGCTTTTGCCTCGACCGCCCTT
GACCACAGACATGTCTCGGGATCGGTTCCGGAGTCGTGGCGGTGGCGGTGGTGGCTTCCACAGGCGTGGAGGAGG
CGGCGGCCGCGGGCGGCCTCCACGACTTCCGTCTCCGCCGCCCGGCATGGGCCTCAATCAGAATCGCGGCCCCAT
GGGTCTTGCCCCGGGCCAGAGCGGCCCTAAGCCTCCGATCCCGCCACCGCCTCCACACCAACAGCAGCAACAGCC
ACCACCGCAGCAGCCACCGCCGCAGCAGCCGCCACCGCATCAGCCGCCCGCGCATCCACAGCCGCATCAGCAGCA
GCAGCCGCCGCCACCGCCGCAGGACTCTTCCAAGCCCGTCGTTGCTCAGGGACCGGCCCGCTCCCGGAGTAGG
CAGCGCACCACAGCCTCCAGCTCGGCCCCGCCCGCCACTCCACCAACCTCGGGGGCCCCGCCAGGGTCCGGGCC
AGGCCCCGACTCCGACCCCCGCCGCTGCACTCCTCGGCCCTCCCGGGGCGCCGCCACCCACCCGCCAAGCAG
CGGGGTCCCTACCACACCTCCTCAGGCCGAGGCCCGCCGCTCCGCCCGCGGCAGTCCCGGGCCCCGGGTCCAGG
GCCTAAGCAGGGCCAGGTCCGGGTGGTCCCAAAGGCGGCAAAATGCCTGGCGGGCCGAAGCCAGGTGGCGGCC
GGGCCTAAGTACGCTGGCGGCCACCCCAAGCGCCGCATCAGAGCGGCGGGGAGCCCCGCGGGGGCCGCCAGCA
CCACCCGCCCTACCACAGCAGCATCACCAGGGGCCCGCCCGCGGGCGGGCCGCGGCCGAGCGAGGAGAAGAT
CTCGGACTCGGAGGGGTTTAAAGCCAATTTGTCTCTCTTGAGGAGGCCTGGAGAGAAAACCTTACACACAGCGATG
TCGGTTGTTTGTGGGAATCTACCTGCTGATATCAGGAGGATGAATTCAAAGACTATTTGCTAAATATGGAGA
ACCAGGAGAAGTTTTATCAACAAAGGCAAGGATTTCGATTTATTAAGCTTGAATCTAGAGCTTTGGCTGAAAT
TGCCAAAGCCGAATGGATGATACCCCATGAGAGGTAGACAGCTTCGAGTTCGCTTTGCCACACATGCTGCTGC
CCTTTCTGTTCTGTAATCTTTACCTTATGTTTCCAATGAACTGTTGGAAGAAGCCTTTAGCCAATTTGGTCTAT
TGAAAGGGCTGTTGTAATAGTGGATGATCGTGAAGATCTACAGGGAAGGCATTGTTGAATTTGCTTCTAAGCC
AGCAGCAAGAAAGGCATTTGAACGATGCAGTGAAGGTGTTTTCTTACTGACGACAACTCCTCGTCCAGTCATTGT
GGAACCACTTGAACAACTAGATGATGAAGATGGTCTTCTGAAAACTTGCCAGAAGAATCCAATGTATCAAAA
GGAGAGAGAAAACCCCTCCTCGTTTTGCCAGCATGGCACGTTTGAGTACGAATATTCTCAGCGATGGAAGTCTTT
GGATGAAATGGAAAAACAGCAAAGGGAACAAGTTGAAAAAACATGAAAGATGCAAAAGACAAATTGGAAAGTGA
AATGGAAGATGCCTATCATGAACATCAGGCAAATCTTTTGCCCAAGATCTGATGAGACGACAGGAAGAATTAAG
ACGCATGGAAGAACCTTACAATCAAGAAATGCAGAAACGTAAAGAAATGCAATTGAGGCAAGAGGAGGAACGACG
TAGAAGAGAGGAAGAGATGATGATTCTGTAACGTGAGATGGAAGAACAATGAGGCGCCAAAGAGAGGAAAGTTA
CAGCCGAATGGGCTACATGGATCCACGGGAAAGAGACATGCGAATGGGTGGCGGAGGAGCAATGAACATGGGAGA
TCCCTATGGTTCAGGAGGCCAGAAATTTCCACCTCTAGGAGGTGGTGGTGGCATAGGTTATGAAGCTAATCCTGG
CGTTCCACCAGCAACCATGAGTGGTTCCATGATGGGAAGTGACATGCGTACTGAGCGCTTTGGGCAGGGAGGTGC
GGGGCCTGTGGGTGGACAGGTCCTAGAGGAATGGGGCTGGAATCCAGCAGGATATGGTAGAGGGAGAGAAGA
GTACGAAGGCCCAAACAAAAAACCCGATTTTAGATGTGATATTTAGGCTTTCATTCCAGTTTGTGTTTTTT
TGTTTAGATACCAATCTTTTAAATCTTTCATTTTAGTAAGAAAGCTATCTTTTATGGATGTTAGCAGTTTATT
GACCTAATATTTGTAAATGGTCTGTTTGGGCAGGTAAATTTATGTAATGCAGTGTGTTGGAACAGGAGAATTTTT
TTTCTTTTTATTTCTTTATTTTTCTTTTTTACTGTATAATGTCCCTCAAGTTTATGGCAGTGACCTTGTGCC
ACTGAATTTCAAAGTGTAACCAATTTTTTTTTTTTACTGTGCTTCAAATAAATAGAAAAATAGTTATAATATTG
GATCTTCACTTTGCCATTCATGCTTCTATGCATATTAGGCTACGTATTCCACATTGAAAGCATGAGAGTGTCTA
GGCCTTTGAATGGCATATGCCATTTCTGGGAAATGCATCTGGAGGCTAAGTATTGCTTTCTACAAATAATTGCCC
CCTTTGTTTTTAAAAAGAAGAAATGCATATTGAAGTAGTTGATGATTTGTTTGGCATATAGGAAGCACGCTGGT
CTAAGTATTTTTTAAATGGTTATGTAAGCAAAGCTGAACTGTAAATCTTCAGGAATATGTATTAAGATTGTGGAA
TGGGTGTAAGACAATTGGTAGGGGTGAAAGTGGGTTTGATTAAATGGATCTTTTATGGCCCTATGATCTATCCT
TTACTTGAAAGCTTTTGAAAGTGGAAGGTCAATTTGTTGCATTTCCCATTTCTTGTTTTTTAAAGACCAACA
AATCTCAAGCCCTATAAATGGCTTGATTGAACTTTACATTTGAATTAAAGATGTTAAACATGAAAAAA

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FIGURE 239

MSKDRFRSRGGGGGGFHRRGGGGGRGGLHDFRSPPPGMGLNQNRGPMGPGPGQSGPKPPIPPPPPHQQQQQPPPQ
QFPFQQPPPHQPPHPQPHQQQQPPPPPPQDSSKPVVAQGPGPAPGVGSAPPASSSAPPATPPTSGAPPGSGPGPT
FIPPPAVTSAPPGAPPPTTPSSGVPTTPPQAGGPPPPPAAVPGPGPGPKQGPGGPKGGKMPGGPKPGGGPGLS
TPGGHPKPPHRGGGEPRGGRQHHPYHQHHQGGPPGGPGRSEEKISDSEGFKANLSLLRRPGEKTYTQRCRLF
PADITEDEFKRLFAKYGEPGEVFINKGKGFGFIKLESRALAEIAKAELDDTPMRGRQLRVRFATHAAALSV
FVSNELLEEAFSQFGPIERAVVIVDDRGRSTGKGIVEFASKPAARKAFERCSEGVFLLTTTPRPVIVEPL
EDGLPEKLAQKNPMYQKERETPPRFAQHGTFEYEYSQRWKSLEMEKQOREQVEKNMKDAKDKLESEMED
AETHQANLLRQDLMRRQEELRRMEELHNQEMQKRKEMQLRQEEERRRREEEMMIRQREMEEQMRRQREESYSRM
RERDMRMGGGGAMNMGDPYSGGQKFPPPLGGGGGIGYEANPGVPPATMSGSMMSGDMRTERFGQGGAGPV
PRGMGPGTPAGYGRGREYEGPNKKPRF

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FIGURE 240

GCCCGTCCCGCCGCCCCGCCAGCCATGAGCTCCACGCAGTTCAACAAGGGCCCCCTCGTACGGGCTGTGCGCC
GAGGTCAAGAACCGGCTCCTGTCCAAATATGACCCCCAGAAGGAGGCAGAGCTCCGCACCTGGATCGAGGGACTC
ACCGGCCTCTCCATCGGCCCCGACTTCCAGAAGGGCCTGAAGGATGGAACCTATCTTATGCACACTCATGAACAAG
CTACAGCCGGGCTCCGTCCCCAAGATCAACCGCTCCATGCAGAACTGGCACCAGCTAGAAAACCTGTCCAACCTC
ATCAAGGCCATGGTCAGCTACGGCATGAACCTGTGGACCTGTTTCGAGGCCAACGACCTGTTTGAGAGTGGGAAC
ATGACGCAGGTGCAGGTGTCTCTTCTCGCCCTGGCGGGGAAGGCCAAGACTAAGGGGGCTGCAGAGCGGGGTGGAC
ATTGGCGTCAAGTACTCGGAGAAGCAGGAGCGGAATTCGACGATGCCACCATGAAGGCTGGCCAGTGGCGTCATC
GGGCTGCAGATGGGCACCAACAAATGCGCCAGCCAGTCGGGCATGACTGCCTACGGCACGAGAAGGCATCTCTAT
GACCCCAAGAACCATATCCTGCCCCCATGGACCACTCGACCATCAGCCTCCAGATGGGCACGAACAAGTGCGCC
AGCCAGGTGGGCATGACGGCTCCCGGGACCCGGCGGCACATCTATGATACCAAGCTGGGAACCGACAAGTGTGAC
AACTCCTCCATGTCCCTGCAGATGGGCTACACGCAGGGCGCCAACCAGAGCGGCCAGGTCTTCGGCCTGGGCGG
CAGATATATGACCCCAAGTACTGCCCCGAAGGCACAGTGGCCGATGGGGCTCCCTCGGGCACCGGCGACTGCCCG
GACCCGGGGGAGGTCCCTGAATATCCCCCTTACTACCAGGAGGAGGCCGGCTACTGAGGCTCCCAAGCACGCTCTC
TCCCCACATCGTCTTCCCATCTGGGTTTTTGGGTTTTTCTGTGTTTTTCATCTTTTTTTTTTTTTTCTTGACCCG
TTCAGTGCTGCCAGTCAACCAAGGGTCTGTGAGTGTGAGCGTGGGATCAGGCAGCAGAGCTTTTTTCCCCTTTGC
CTTGATCCTTCGCAAGGCTGAGCCACTGGGCTGTGGGGGAAGGGGTCAAGGCCATATCCCAATACGTGTAGGGCG
AGGGTCCCTGCTGGCACATTCAGGCTGTGCTGGGAAGAAGAGACCTGGGCTTGAAGGAACCGGTCCCCGACGGT
TTCTGGTTGCCTCGCCTCTTCCCCCTTTTGTGAGCTGAGCAGTTTGTGGTTTTCTATGCCCGCAAGTTTCAGGAAG
TATTCACAAAAGAAAAATACATTTTTTCCCCAGGGGTGGGGCAAGGACAGTGGAGAGAGTGCTAGGAAATGAGT
CCCCTGGGAAAGGGGACCGGGCCGTGATGTTAAATATCTCCGGCTCCCAAGTACTGGATTGCTTAGGACCTTC
AGATCAACAGACTTCAGACCCTCAGACCTGCCCCGGGGCCAGGTGGAGAAAGTGAGGGCCGTACAAGGAAGTGAA
ATTCTGAGTTGTTGGGGCTAAGCCTGACCCCTCTCCATGCTCCCCGCCCCAACTCACTCTGGCCTCAGTAGATT
TTTTTTTCAGTTGTGGTTGTTGCCAGGCTGGAGTGCAGTGGCGCCATCTTGGCTCACTGCACCTCCACCTTCCG
GGCTCAAGCGATTCTCCAGCCTCAGCCTCCTGAGTAGCTAGGACTGCAGGTGCTCCACCACGCCCCGGCTAATTTT
TGTATTTTTAGTAGAGATGGGGTTTTCCCATGTTGGCCAGGCTGGTCTCGAACTCCTGGCCTCAGGTGTGATCCG
CCCGCCTCCGCCTCCCCAAGCGCTGAGATTACAGGTGTGAGCCACCGTGCCCAGGCCCTCAGTAGGTTTTAAGGA
GTCCCCAGCCCTCCTCCTTCTGGGCCCCGACCAGCTTATACTGCTCCATCTTCCCCGGCCACATGCCCCGCCAAG
TACTGCACAGGGACCCCCCAGGGGCCCTGCTCCGTGAGATAATGTGAAATACGACTGTGGACCAAACGCAA
TAAACCTTTGTTTGTAGGAAG

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FIGURE 241

MSSTQFNKGPSYGLSAEVKNRLLSKYDPQKEAELRTWIEGLTGLSIGPDFQKGLKDGITILCTLMNKLQPGSVPKI
NRSMQNWHQLENLSNFIKAMVSYGMNPVDLFEANDLFESGNMTQVQVSLLAGKAKTKGLQSGVDIGVKYSEKQ
ERNFDDATMKAGQCIVIGLQMGTNKCASQSGMTAYGTRRHLYDPKNHILPPMDHSTISLQMGTNKCASQVGMTAPG
TRRHIYDTKLGTDKCDNSSMSLQMGYTQGANQSGQVFLGRQIYDPKYCPQGTVADGAPSGTGDCPDPEVPEYP
PYYQEEAGY

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FIGURE 242

CTGAAGATGGCGGCTGCTGTAGGACGGTTGCTCCGAGCGTCGGTTGCCCGACATGTGAGTGCCATTCCCTTGGGGC
ATTTCTGCCACTGCAGCCCTCAGGCCTGCTGCATGTGGAAGAACGAGCTTGACAAATTTATTGTGTTCTGGTTCC
AGTCAAGCAAAATTATTCAGCACCAGTTCCTCATGCCATGCACCTGCTGTCACCCAGCATGCACCCTATTTTAAG
GGTACAGCCGTTGTCAATGGAGAGTTCAAAGACCTAAGCCTTGATGACTTTAAGGGGAAATATTTGGTGCTTTTC
TTCTATCCTTTGGATTTACCTTTGTGTGTCCTACAGAAATTGTTGCTTTTAGTGACAAAGCTAACGAATTTTAC
GATGTGAACGTGAAGTTGTCGCAGTCTCAGTGGATTCCCACCTTTAGCCATCTTGCCTGGATAAATACACCAAGA
AAGAATGGTGGTTTGGGCCACATGAACATCGCACTCTTGTCAGACTTAAC TAAGCAGATTTCCCGAGACTACGGT
GTGCTGTTAGAAGGTTCTGGTCTTGCACTAAGAGGTCTCTTCATAATTGACCCCAATGGAGTCATCAAGCATTG
AGCGTCAACGATCTCCAGTGGGCCGAAGCGTGGAAGAAACCTCCGCTTGGTGAAGGCGTTCCAGTATGTAGAA
ACACATGGAGAAGTCTGCCAGCGAAGTGGACACCGGATTCTCCTACGATCAAGCCAAGTCCAGCTGCTTCCAAA
GAGTACTTTCAGAAGGTAAATCAGTAGATCACCCATGTGTATCTGCACCTTCTCAACTGAGAGAAGAACCACAGT
TGAAACCTGCTTTTATCATTTTCAAGATGGTTATTTGTAGAAGGCAAGGAACCAATTATGCTTGTATTTCATAAGT
ATTACTCTAAATGTTTTGTTTTGTAAATCTGGCTAGGACCTTTTAAACATGGTTAGTTGCTAGTACAGGAATCG
TTTATTGGTAACATCTTGGTGGCTGGCTAGCTAGTTTCTACAGAACATAATTTGCCTCTATAGAAGGCTATTCTT
AGATCATGTCTCAATGGAAACACTCTTCTTCTTAGCCTTACTTGAATCTTGCCTATAATAAAGTAGAGCAACAC
ACATTGAAAGCTTCTGATCAACGGTCCTGAAATTTTCATCTTGAATGTCTTTGTATTAACTGAATTTTCTTTTA
AGCTAACAAAGATCATAATTTTCAATGATTAGCCGTGTAACCTCCTGCAATGAATGTTTATGTGATTGAAGCAAAT
GTGAATCGTATTATTTTAAAAAGTGGCAGAGTGACTTAACTGATCATGCATGATCCCTCATCCCTGAAATTGAGT
TTATGTAGTCATTTTACTTATTTTATTTCATTAGCTAACTTTGTCTATGTATATTTCTAGATATTGATTAGTGTA
TCGATTATAAAGGATATTTATCAAATCCAGGGATTGCATTTTGAAATTATAATTATTTTCTTTGCTGAAGTATTC
ATTGTAAACATACAAATAACATATTTAAACAAAAAAAAAAAA

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FIGURE 243

MAAAVGRLLRASVARHVSAIPWGISATAALRPAACGRTSLTNLLCSGSSQAKLFSTSSSCHAPAVTQHAPYFKGT
AVVNGEFKDLSLDDFKGKYLVLFFYPLDFTFVCPTEIVAFSDKANEFHDVNCEVVAVSVDSHFSLAWINTPRKN
GGLGHMNIALLSDLTKQISRDYGVLLLEGSGLALRGLFIIDPNGVIKHLVNDLPVGRSVEETLRLVKAFQYVETH
GEVCPANWTPDSPTIKPSPAASKEYFQKVNQ

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FIGURE 244

TGGCCGGAATTCCGGGGAGGGAGAAGCCCCCTTTGGCCTGCCTTACGGAAGCCTGCGAGGGAGGGTGGTGTCCACT
GCCCAGTTCGGTGTCCCGATGCCAGCGCCACGCAGCGCAAGAGTCAGGAGAAGCCGCGGGAGATCATGGACGCG
GCGGAAGATTATGCTAAAGAGAGATATGGAATATCTTCAATGATACAATCACAAGAAAAACCAGATCGAGTTTGTG
GTTCCGGGTTAGAGACTTGACAATACAAAAAGCTGATGAAGTTGTTTGGGTACGTGCAAGAGTTTCATACAAGCAGA
GCTAAAGGGAAACAGTGCTTCTTAGTCCCTACGTCAGCAGCAGTTTAATGTCCAGGCTCTTGTGGCGGTGGGAGAC
CATGCAAGCAAGCAGATGGTTAAATTTGCTGCCAACATCAACAAAGAGAGCATTGTGGATGTAGAAGGTGTTGTG
AGAAAAGTGAATCAGAAAATTGGAAGCTGTACACAGCAAGACGTTGAGTTACATGTTCAGAAGATTTATGTGATC
AGTTTGGCTGAACCCCGTCTGCCCTGCAGCTGGATGATGCTGTTTCGGCCTGAGCAAGAAGGAGAAGAGGAAGGA
AGAGCTACTGTTAACCAGGATACAAGATTAGACAACAGAGTCATTGATCTTAGGACATCAACTAGTCAGGCAGTC
TTCCGTCTCCAGTCTGGCATCTGCCATCTCTTCCGAGAACTTTAATTAACAAAGGTTTTGTGGAAATCCAACT
CCTAAAATTATTTAGCTGCCAGTGAAGGAGGAGCCAATGTTTTTACTGTGTCATATTTAAAAATAATGCATAC
CTGGCTCAGTCCCCACAGCTATATAAGCAAATGTGCATTTGTGCTGATTTTGAAGAAGTTTTCTCTATTGGACCA
GTATTCAGAGCGGAAGACTCTAATACCCATAGACATCTAACTGAGTTTGTGGTTTGGACATTGAAATGGCTTTT
AATTACCATTACCACGAAGTTATGGAAGAAATTGCTGACACCATGGTACAAATATTCAAAGGACTTCAAGAAAGG
TTTCAGACTGAAATTCAAACAGTGAATAAACAGTTCCCATGTGAGCCATTCAAATTTTTGGAGCCAACCTCTAAGA
CTAGAATATTGTGAAGCATTGGCTATGCTTAGGGAAGCTGGAGTCGAAATGGGAGATGAAGACGATCTGAGCACA
CCAAATGAAAAGCTGTTGGGTCAATTTGGTAAAGGAAAAGTATGATACAGATTTTTATATTCTTGATAAATATCCA
TTGGCTGTAAGACCTTTCTATACCATGCCTGACCCAAGAAATCCCAAACAGTCCAAGTCTTACGATATGTTTCATG
AGAGGAGAAGAAATATTGTCAGGAGCTCAAAGAATACATGATCCTCAACTGCTAACAGAGAGAGCTTTACATCAT
GGAAATGATTTGGAGAAAATTAAGGCTTACATTGATTCCCTCCGCTTTGGAGCCCTCCTCATGCTGGTGGAGGC
ATTGGATTGGAACGAGTTACTATGCTGTTTCTGGGATTGCATAATGTTTCGTCAGACCTCCATGTTCCCTCGTGAT
CCCAAACGACTCACTCCTTAAATTACACTTTGCCACTTAACTCCAGTGTGGATGACAGAGCGAGACCCTGCCTC
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAGCCACACTT
ATTCTTTTCAGTAACCTGCTAGTGACACAGGCTGTACTTTAGGTACTTAAAATATGCACTAGAATAAATTTGCAAG
GCCCTAAATATCACTGTTATTTTTGGAGTAATTCAGTATAGGTTTCGTTTAAAGAGATTTTTATAACTTCAGAC
ATGCATCAGTAGGAAATAACTTGAGAAATTCATATGGTTATGTTACAAATTCATATTCTGTTACTACAGTAAACG
TTAAGAGTTTTTAACAGTTAAGATTGTACAATTTTTCTTCTTTTCTATATTACAAGGGCCCCAGTGTTAATGTCT
TAGATTTTCAGTATTTGAAGTTATTTTTTAAATTCTGTCAATTGAGATAAGAATAATTCAGGTAGCATCTGAAAT
TTAATGAATGTATAATTGGCATATCATGGAAAATTAACCAGAAAGTATCAGTTCTTAAAGTTATGCCTAGAAA
TTATGTAAAGCTAACTACTGGTTAGAAAGTATTAGTGTAAATATTGTATTAAATTTGTAAATTCTAACTTGAA
TTTCAATAAAATTTTAAAGCT

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FIGURE 245

MP SATQRKSQEKPREIMDAAEDYAKERYGISSMIQSQEKPDRLVVRVRLTIQKADEVVWVRARVHTSRAKGKQC
H LVLRRQQQFNVQALVAVGDHASKQMVKFAANINKESIVDVEGVVRKVNQKIGSCTQQDVELHVQKIYVISLAEPR
LPLQLDDAVRPEQE GEEEGRATVNQDTRL DNRVIDLRTSTSQAVFRLQSGICHLFRET LINKGFVEIQTPKIISA
ASEGGANVFTVSYFKNNAYLAQSPOLYKQMCICADFEKVFSIGPVFRAEDSNTHRHLTEFVGLDIEMAFNYHYHE
ADTMVQIFKGLQERFQTEIQTVNKQFPCEPFFLEPTLRLEYCEALAMLREAGVEMGDEDDLSTPNEKLL
KEYD TDFYILD KYPLAVRPFYTMPDPRNPKQSKSYDMFMRGEEILSGAQRIHDPQLLTERALHHGNDLEK
DSFRFGAPPHAGGGIGLERVTMLFLGLHNVRQTSMFPRDPKRLTP

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FIGURE 246

ACTTGGCCTTACACTCCGCTCGGCTCACCATGTGTCACTCTCGCAGCTGCCACCCGACCATGACCATCCTGCAGG
CCCCGACCCCGGGCCCCCTCCACCATCCCGGGACCCCGGGCGGGGCTCCGGTCTTGAGATCTTCACCTTCGACCCCTC
TCCCGGAGCCCGCAGCGGGCCCTGCCGGGCGCCCCAGCGCCTCTCGCGGGCACCGAAAGCGCAGCCGCAGGGTCT
CTCTACCCTCGAGTGGTGAGTATCGCCGAAGTGGGCATTTCGCGGTGTGCGCTGCCCTGGAGTCACTGGGGAACGA
CCCGACTCCAGAGCCTCGACCTGACCTGTCTCCTGTTTTGTCTCCCCTTAGTCCGGCGCCAGCTGCCAGTCGAGG
AACCGAACCCAGCCAAAAGGCTTCTCTTTCTGCTGCTCACCATCGTCTTCTGCCAGATCCTGATGGCTGAAGAGG
GTGTGCCGGCGCCCCCTGCCTCCAGAGGACGCCCCTAACGCCGCATCCCTGGCGCCACCCCTGTGTCCCCCGTCC
TCGAGCCCTTTAATCTGACTTCGGAGCCCTCGGACTACGCTCTGGACCTCAGCACTTTCCTCCAGCAACACCCGG
CCGCCTTCTTAACTGTGACTCCCCGCACTCCCCAAAAAGAATCCGAAAAACCACAAAGAAACACCAGGCGTACCTG
GTGCGCGAGAGCGTATCCCCAACTGGGACTTCCGAGGCAACTTGAATCAGAACACTACAGCGGAGACGCCACCC
GGTGCTTGAGGCGGGACCGAGGCGCACAGAGACCGAGGCGCATAGAGACCGAGGCACAGCCAGCTGGGCTAGGC
CGGTGGGAAGGAGAGCGTCGTAAATTTATTTCTTATTGCTCCTAATTAATATTTATATGTATTTATGTACGTCCT
CCTAGGTGATGGAGATGTGTACGTAATATTTATTTTAACTTAATGCAAGGGTGTGAGATGTTCCCTCTGCTGTAAA
TGCAGGTCTCTTGGTATTTATTGAGCTTTGTGGGACTGGTGGAAGCAGGACACCTGGAATGCGGCAAGTAGGA
GAAGAAATGGGGAGGACTCGGGTGGGGGAGGACGTCCCGGCTGGGATGAAGTCTGGTGGTGGGTTCGTAAGTTTAG
GAGGTGACTGCATCCTCCAGCATCTCAACTCCGTCTGTCTACTGTGTGAGACTTCGGCGGACCATTAGGAATGAG
ATCCGTGAGATCCTTCCATCTTCTTGAAGTCGCCTTTAGGGTGGCTGCGAGGTAGAGGGTTGGGGGTGGTGGGC
TGTCACGGAGCGACTGTCGAGATCGCCTAGTATGTTCTGTGAACACAAATAAAATTGATTTACTGTCTGC

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FIGURE 247

MCHSRSCHPTMTILQAPTPAPSTIPGPRRGSGPEIFTFDPLPEPAAAPAGRPSASRGHRKRSRRVSLPSSGEYRR
SGHSRCALPWSHWGTTRLQSLDLTCLLFCLPLVRRQLPVEEPNPAKRLFLLLTIVFCQILMAEEGVPAPLPED
APNAASLAPTPVSPVLEPFNLTSEPSDYALDLSTFLQQHPAAF

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FIGURE 248A

GCGCGACCGTCCCCGGGGGTGGGGCCGGGCGCAGCGGCGAGAGGAGGCGAAGGTGGCTGCGGTAGCAGCAGCGCGG
CAGCCTCGGACCCAGCCCGGAGCGCAGGGCGGCCGCTGCAGGTCCCCGCTCCCCCTCCCCGTGCGTCCGCCCCATGG
CCGCCCGCGGGCAGCTGTGCTTGCTCTACCTGTGCGGCGGGGCTCCTGTCCCGGCTCGGCGCAGCCTTCAACTTTGG
ACACTCGGGAGGACAACGTGATCCGGAATATGGAGACCCCGGGAGCCTCTTCGGCTTCTCGCTGGCCATGCACT
GGCAACTGCAGCCCCGAGGACAAGCGGCTGTTGCTCGTGGGGGGCCCCGCGCGGAGAAGCGCTTCCACTGCAGAGAG
CCAACAGAACGGGAGGGCTGTACAGCTGCGACATCACCGCCCCGGGGGCCATGCACGCGGATCGAGTTTGATAACG
ATGCTGACCCACGTGAGAAAGCAAGGAAGATCAGTGGATGGGGGTACCGTCCAGAGCCAAGGTCCAGGGGGCA
AGGTCGTGACATGTGCTCACCGATATGAAAAAGGCAGCATGTTAATACGAAGCAGGAATCCCAGACATCTTTG
GGCGGTGTTATGTCTGAGTCAGAAATCTCAGGATTGAAGACGATATGGATGGGGGAGATTGGAGCTTTTGTGATG
GGCGATTGAGAGGCCATGAGAAATTTGGCTCTTGCCAGCAAGGTGTAGCAGCTACTTTTACTAAAGACTTTCATT
ACATTGTATTTGGAGCCCCGGGTACTTATAACTGGAAAGGGATTGTTCTGTAGAGCAAAAGAATAACACTTTTT
TTGACATGAACATCTTTGAAGATGGGCCCTATGAAGTTGGTGGAGAGACTGAGCATGATGAAAGTCTCGTTCCTG
TTCCTGCTAACAGTTACTTAGGTTTTTCTTTGGACTCAGGGAAAGGTATTGTTTCTAAAGATGAGATCACTTTTG
TATCTGGTGCTCCCAGAGCCAATCACAGTGGAGCCGTGGTTTTGCTGAAGAGAGACATGAAGTCTGCACATCTCC
TCCCTGAGCACATATTCGATGGAGAAGGTCTGGCCTCTTCATTGGCTATGATGTGGCGGTGGTGGACCTCAACA
AGGATGGGTGGCAAGATATAGTTATTGGAGCCCCACAGTATTTTGATAGAGATGGAGAAGTTGGAGGTGCAGTGT
ATGTCTACATGAACCAGCAAGGCAGATGGAATAATGTGAAGCCAATTCGTCTTAATGGAACCAAAGATTCTATGT
TTGGCATTGCAGTAAAAAATATTGGAGATATTAATCAAGATGGCTACCCAGATATTGCAGTTGGAGCTCCGTATG
ATGACTTGGGAAAGGTTTTTATCTATCATGGATCTGCAATGGAATAAATAACCAACCAACACAGGTTCTCAAGG
GTATATCACCTTATTTTGGATATTCAATTGCTGGAAACATGGACCTTGATCGAAATTCCTACCTTGATGTTGCTG
TTGGTTCCTCTCAGATTCACTAATTTTTAGATCCCGGCTGTGATTAATATTAGAAAACCATCACAGTAA
CTCCTAACAGAAATTGACCTCCGCCAGAAAACAGCGTGTGGGGCGCCTAGTGGGATATGCCTCCAGGTTAAATCCT
GTTTTGAATATACTGCTAACCCCGCTGGTTATAATCCTTCAATATCAATTGTGGGCACACTTGAAGCTGAAAAAG
AAAGAAGAAAATCTGGGCTATCCTCAAGAGTTTCAGTTTCGAAACCAAGGTTCTGAGCCCAAATATACTCAAGAAC
TAACTCTGAAGAGGCAGAAACAGAAAGTGTGCATGGAGGAAACCTGTGGCTACAGGATAATATCAGAGATAAAC
TGCGTCCCATTCCCATAACTGCCTCAGTGGAGATCCAAGAGCCAAGCTCTCGTAGGCGAGTGAATTCACCTCCAG
AAGTTCCTCCAATTCTGAATTCAGATGAACCCAAGACAGCTCATATTGATGTTCACTTCTTAAAAGAGGGATGTG
GAGACGACAATGTATGTAACAGCAACCTTAACTAGAATATAAATTTGCACCCGAGAAGGAAATCAAGACAAAT
TTTCTTATTTACCAATTCAAAAGGTGTACCAGAACTAGTTCTAAAAGATCAGAAGGATATTGCTTTAGAAATAA
CAGTGACAAACAGCCCTTCCAACCCAAGGAATCCCACAAAAGATGGCGATGACGCCCATGAGGCTAACTGATTG
CAACGTTTCCAGACACTTTAACTATTCTGCATATAGAGAACTGAGGGCTTTCCCTGAGAAACAGTTGAGTTGTG
TTGCCAACAGAAATGGCTCGCAAGCTGACTGTGAGCTCGGAAATCCTTTTAAAAGAAATTCAAATGTCACCTTTT
ATTTGGTTTTTAAGTACAACCTGAAGTCACCTTTGACACCCCATATCTGGATATTAATCTGAAGTTAGAAACAACA
GCAATCAAGATAATTTGGCTCCAATTACAGCTAAAAGCAAAAGTGGTTATTGAAGTGTCTTTATCGGTCTCGGGAG
TTGCTAAACCTTCCAGGTGTATTTTGGAGGTACAGTTGTTGGCGAGCAAGCTATGAAATCTGAAGATGAAGTGG
GAAGTTTAAATAGAGTATGAATTCAGGGTAATAAACTTAGGTAAACCTCTTACAAACCTCGGCACAGCAACCTGA
ACATTCAGTGGCCAAAAGAAATTAGCAATGGGAAATGGTTGCTTTATTTGGTGAAAGTAGAATCCAAAGGATTGG
AAAAGGTAACCTTGTGAGCCACAAAAGGAGATAAACTCCCTGAACCTAACGGAGTCTCACAACCTCAAGAAAGAAAC
GGGAAATTACTGAAAAACAGATAGATGATAACAGAAAATTTTCTTTATTTGCTGAAAGAAAATACCAGACTCTTA
ACTGTAGCGTGAACGTGAACGTGTGTGAACATCAGATGCCCGCTGCGGGGGCTGGACAGCAAGGCGTCTCTTATTT
TGCGCTCGAGGTTATGGAACAGCACATTTCTAGAGGAATATTCCAACTGAACTACTTGGACATTCTCATGCGAG
CCTTCATTGATGTGACTGCTGCTGCCGAAAATATCAGGCTGCCAAATGCAGGCACCTCAGGTTTCAGTGACTGTGT
TTCCCTCAAAGACTGTAGCTCAGTATTCGGGAGTACCTTGGTGGATCATCCTAGTGGCTATTCTCGCTGGGATCT
TGATGCTTGCTTTATTAGTGTTTATACTATGGAAGTGTGGTTTTCTTCAAGAGAAAATAAGAAAAGATCATTATGATG
CCACATATCACAAGGCTGAGATCCATGCTCAGCCATCTGATAAAGAGAGGCTTACTTCTGATGCATAGTATTGAT
CTACTTCTGTAATTGTGTGGATTCTTTAAACGCTCTAGGTACGATGACAGTGTTCGCCGATACCATGCTGTAAGG
ATCCGGAAAAGAGCGAGAGATCAAAGATGAAAAGTATATTGATAACCTTGAAAAAAACAGTGGATCACAAAG
TGGAACAGAAAATGAAAGCTACTCATAGCGGGGGCCTAAAAAAGCTTCACAGTACCCAACTGCTTTTTTC

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FIGURE 248B

CAACTCAGAAATTCAATTTGGATTTAAAAGCCTGCTCAATCCCTGAGGACTGATTTTCAGAGTGA CTACACACAGT
ACGAACCTACAGTTTTTA ACTGTGGATATTGTTACGTAGCCTAAGGCTCCTGTTTTGCACAGCCAAATTTAAACT
GTTGGAATGGATTTTTCTTTAACTGCCGTAAATTTAACTTTCTGGGTTGCCTTTGTTTTGGCGTGGCTGACTTAC
ATCATGTGTTGGGGAAGGGCCTGCCAGTTGCACTCAGGTGACATCCTCCAGATAGTGTAGCTGAGGAGGCACCT
ACACTCACCTGCACTAACAGAGTGGCCGTCCTAACCTCGGGCCTGCTGCGCAGACGTCCATCACGTTAGCTGTCC
CACATCACAAGACTATGCCATTGGGGTAGTTGTGTTTCAACGGAAAGTGCTGTCTTAACTAAATGTGCAATAGA
AGGTGATGTTGCCATCCTACCGTCTTTTCTGTTTCTAGCTGTGTGAATACCTGCTCACGTCAAATGCATACAA
GTTTCATTCTCCCTTTCACTAAAAACACACAGGTGCAACAGACTTGAATGCTAGTTATACTTATTTGTATATGGT
ATTTATTTTTCTTTTCTTTTACAAACCATTTTGTATTGACTAACAGGCCAAAGAGTCTCCAGTTTACCCCTCAG
GTTGGTTTAATCAATCAGAATTAGAATTAGAGCATGGGAGGGTCATCACTATGACCTAAATTATTTACTGCAAAA
AGAAAATCTTTATAAATGTACCAGAGAGAGTTGTTTTAATAACTTATCTATAAACTATAACCTCTCCTTCATGAC
AGCCTCCACCCCAACCCAAAAGGTTTAAGAAATAGAATTATAACTGTAAAGATGTTTATTTTCAGGCATTGGAT
ATTTTTTACTTTAGAAAGCCTGCATAATGTTTCTGGATTTACATACTGTAACATTCAGGAATTCTTGGAGAAGATG
GGTTTATTCACTGAACCTCTAGTGCGGTTTACTCACTGCTGCAAATACTGTATATTCAGGACTTGAAAGAAATGGT
GAATGCCTATGGAAGTCTAGTGATCCAACTGATCCAGTATAAGACTACTGAATCTGCTACCAAAACAGTTAATCA
GTGAGTCGAGTGTTCTATTTTTTGTGTTTGTTCCTCCCTATCTGTATTCCCAAAAATTACTTTGGGGCTAATTT
AACAAGAACTTTAAATTGTGTTTAAATTGTAATAATGGCAGGGGGTGGAATTATTACTCTATACATTCAACAGAG
ACTGAATAGATATGAAAGCTGATTTTTTTTTAATTACCATGCTTCACAATGTTAAGTTATATGGGGAGCAACAGCA
AACAGGTGCTAATTTGTTTTGGATATAGTATAAGCAGTGTCTGTGTTTTGAAAGAATAGAACACAGTTTGTAGTG
CCACTGTTGTTTTGGGGGGGGCTTTTTTTCTTTTTCCGGAAATCCTTAAACCTTAAGATACTAAGGACGTTGTT
TTGGTTGTACTTGGAATCTTAGTCACAAAATATATTTTTGTTTACAAAAATTTCTGTAAAACAGGTTATAACAGT
GTTTAAAGTCTCAGTTTCTTGCTTGGGGAACCTTGTTGCCCTAATGTGTTAGATTGCTAGATTGCTAAGGAGCTGA
TACTTGACAGTTTTTTAGACCTGTGTTACTAAAAAAAAGATGAATGTCGGAAAAGGGTGTGGGAGGGTGGTCAA
CAAAGAAACAAAGATGTTATGGTGTGTTAGACTTATGGTTGTTAAAAATGTCATCTCAAGTCAAGTCACTGGTCTG
TTTGCATTTGATACATTTTTGTACTAACTAGCATTGTAAATATTTTCATGATTAGAAATTACCTGTGGATATTT
GTATAAAAGTGTGAAATAAATTTTTTATAAAAGTGTTCAATTGTTTCGTAACACAGCATTGTATATGTGAAGCAAA
CTCTAAAATTATAAATGACAACCTGAATTATCTATTTTCATCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 249

MAAAGQLCLLYLSAGLLSRLGAAFNLDTREDNVIRKYGDPGSLFGFSLAMHWQLQPEDKRLLLVGAPRGEALPLQ
RANRTGGLYSCDITARGPCTRIEFDNDADPTSESKEDQWMGVTVQSQGPGGKVVTCAHRYEKRQHVNTKQESRDI
FGRCYVLSQNLRIEDDMDGGDWSFCDGRLRGHEKFGSCQQGVAATFTKDFHYIVFGAPGTYNWKGIVRVEQKNNT
FFDMNIFEDGPYEVGGETEHDESLVPVPANSYLGFSLD SGKGIVSKDEITFVSGAPRANHSGAVVLLKRDMSAH
LLPEHIFDGEGLASSFGYDVAVVDLNKDGWQDIVIGAPQYFDRDGEVGGAVYVYMNQQGRWNNVKPIRLNGTKDS
MFGIAVKNIGDINQDGYPDIAVGAPYDDL GKVF IYHGSANGINTKPTQVLKGISPYFGYSIAGNMDLDRNSYPDV
AVGSLSDSVTIFRSRPVINIQKTIITVTPNRIDL RQKTACGAPSGICLQVKSCFEYTANPAGYNPSISIVGTLEAE
KERRKSGLSRVQFRNQGSEPKYTQELTLKRQKQKVCMEETLWLQDNIRD KLRPIPI TASVEIQEPSSRRRVNSL
PEVLPILNSDEPKTAHIDVHFLKEGCGDDNVCNSNLKLEYKFCTREGNQDKFSYLP IQKGVPELV LKDQKDIALE
ITVTNPSNPRNPTKDGDDAHEAKLIATFPD TLTY SAYRELRAFPEKQLSCVANQNGSQADCELG NPFKRNSNVT
FYLVLSTTEVTFDTPYLDINLKLETTSNQDN LAPITAKAKVVI ELLLSVSGVAKPSQVYFGGT VVGEQAMKSEDE
VGSLIEYEF RVINLGKPLTNLGTATLNIQWPKEISNGKWL LYLKVESKGLEKVTCEPQKEINSLNL TESHNSRK
KREITEKQIDDN RKFSLFAERKYQTLNCSVNVCNVNIRCP LRGLDSKASLILRSRLWNSTFLEEYSK LNYLDILM
RAFIDVTAAAENIRLPNAGTQVRVTVFPSKTVAQYSGVPWWIILVAILAGILMLALLVFILWKCGFFKR NKDHY
DATYHKAEIHAQPSDKERLTSDA

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FIGURE 250

GCAAACTCCCGCAGACTTCTCTGTAGATCGCTGAGCGATACTTTCGGCAGCACCTCCTTGATTCTCAGTTTTGCT
TGAGGCCGCAACCAGGCCCGCGCCGCCACCATGTTTCGAAATCAGTATGACAATGATGTCAGTGTGGAGCCCC
CAGGGCAGGATTCATCAAATTGAATATGCAATGGAAGCTGTTAAACAAGGTTTCAGCCACAGTTGGTCTGAAATCA
AAAACATCATGCAGTTTTTGGTTGCATTGAAAAGGGCGCAATCAGAGCTTGCAGCTCATCAGAAAAAAATTCTCCAT
TACAACCACATTGGTATCTCAATTGCGGGGCTTACTGCTGATGCTAGACTGTTATGTAATTTTATGCGTCAG
TTTTGGATTCCAGATTTGTATTCGATAGACCACTGCCTGTGTCTCGTCTTGTATCTCTAATTGGAAGCAAG
GAGATACCAACACAACGATATGGCCGGAGACCATATGGTGTGGTCTCCTTATTGCTGGTTATGATGATATG
GCTCAGCTCACATTTTCCAAACCTGTCCATCTGCTAACTATTTTGAAGTGCAGAGCCATGTCCATTGGAGCCCGTTCC
TCAGCTCGTACTTACTTGGAGAGACATATGTCTGAATTTATGGAGTGTAATTTAAATGAAGTAGTTAAACAT
TGCCTGTCCTTAAGAGAGACGCTTCCTGCAGAACAGGACCTGACTACAAAGAATGTTTCCATTGGAATTGTT
AAGACTTGGAGTTTACAATCTATGATGATGATGATGTGTCTCCATTCCCTGGAAGGTCTTGAAGAAAGACCA
GAAAGGCACAGCCTGCTCAACCTGCTGATGAACCTGCAGAAAAGGCTGATGAACCAATGGAACATTAAGTG
AGCCAGTCTATATATGTATTATCAAATATGTAAGAATACAGGCACCACATACTGATGACAATAATCTATACT
AACCAAAAGTTGCAGAGTGGTGAATGCTATGCTATGTTTTAGGAATCAGTCCAGATGTGAGTTTTTTCCAA
GACCTCACTGAAACCTATATAATGGAATACATTTTTCTTTGAAAGGGTCTGTATAATCATTTTCTAGAAGTAT
GGTATCTATACTAATGTTTTTTATATAAGAACATAGGTGTCTTTGTGGTTTTAAAGACAACCTGTGAAATAAAAT
TGTTTCACCGCCTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 251

MFRNQYDNDVTWSPQGRIHQIEYAMEAVKQGSATVGLKSKTHAVLVALKRAQSELAHQKKILHVDNHIGISIA
GLTADARLLCNFMRQECLDSRFVFDRLPVSRLVSLIGSKTQIPTQRYGRRPYGVGLLIAGYDDMGPHIFQTCPS
ANYFDCRAMSIGARSQSARTYLERHMSEFMECNLNELVKHGLRALRETLPAEQDLTTKNV SIGIVGKDLEFTIYD
DDDVSPFLEGLEERPQRKAQPAQPADEPAEKADEPMEH

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FIGURE 252

GGGGTGACGCAGGCGCAGCGCGGGCTGCGCGCGCTACTGCCCATCCCCGGTTGTCCCACTTTTGTTGCGCTCTCT
TCGGTCCTCTACTCAAGAGCTCCGTCTCCGTCTCGCCCTCCTCGAAGTCCTCGTCGCGCGCCCGCGACCCAGGTC
GCCCTGAAATCTAGCCCGTCCGAGCGCGAGTCCAACGGCCGCGGCCGACCAAGGCCCCCTCAGACCGTGCCATG
GGTGACAGTGATGACGAGTACGATCGAAGGCGCAGGGACAAGTTTCAAGAGAGCGCAGCGACTACGACCGTTTC
CGCGAGAGAGATGAAAGACGTCGAGGGGACGATTGGAATGACAGAGAGTGGGACCGTGCGCCGTGAGCGCCGTAGT
CGGGGTGAATATCGGGACTATGACCGGAATCGGCGAGAGCGCTTCTCGCCACCTCGCCACGAACCTAGCCCGCCA
CAGAAGCGCATGAGGAGAGACTGGGATGAGCACAGCTCTGACCCATACCCACAGTGGCTATGAGATGCCCTATGCT
GGGGGGGGGTGGGGGGCCCAACTTATGGCCCCCTCAGCCCTGGGGGCCACCTGACGTCCACATCATGCAGCACCA
TGTCCTGCCTATCCAGGCCAGGCTGGGCAGCATTGCAGAGATTGACCTGGGTGTGCCGCCGCCCGTGATGAAGAC
CTTCAAGGAGTTTCTCCTCTCCCTGGATGACTCGGTGGATGAGACGGAGGCCGTCAAGCGCTATAATGACTACAA
GCTGGATTTCGGAGGCAACAGATGCAGGATTTCTTCTGGCGCACAAAGATGAGGAGTGGTTTCGGTCTAAGTA
CCACCCAGATGAGGTGGGGAAGCGTCGGCAGGAGGCCCGGGGGGCCCTGCAAAACCGACTGAGGGTCTTCTCTGTC
CCTCATGGAGACTGGCTGGTTTGATAACCTTCTCCTGGACATAGACAAAGCTGATGCCATTGTCAAGATGCTGGA
TGCAGCCGTGATTAAGATGGAAGGAGGCACGGAGAATGATCTCCGCATCCTGGAGCAGGAGGAGGAGGAGGAGCA
GGCAGGAAAGCCTGGGGAGCCAGCAAGAAAGAAGAAGGACGGGTGGAGCAGGCCTAGGGGACGGGGAGCGCAA
AACCAACGACAAGGATGAGAAGAAGGAAGACGGCAAGCAGGCTGAGAATGACAGTTCTAATGATGACAAAACAAA
GAAGTCGGAGGGTGTGGGGACAAGGAAGAGAAGAAAGAAAGACTCCGAGAAGGAAGCCAAAAGAGTAGCAAGAA
GCGGAACCGGAAGCACAGTGGTGACGACAGCTTTGACGAGGGCAGCGTGTGAGAGTCTGAGTCGGAGTCAGAGAG
CGGCCAGGCTGAGGAGGAGAAGGAGGAGGCCGAAGCGCTCAAGGAGAAGGAGAAGCCCAAGGAAGAAGAATGGGA
GAAGCCCAAGGACGCCGCGGGGCTGGAGTGCAAGCCGCGGCCGCTGCATAAGACCTGCTCCCTCTTCATGCGCAA
CATCGCGCCCAACATCTCCCGGGCCGAGATCATCTCCCTTTGTAAAAGGTACCCAGGCTTTATGCGGGTGGCGCT
CTCAGAGCCCCAGCCAGAGAGGAGGTTTTTCCGTCTGGCTGGGTGACCTTCGACCGCAGTGTTAACAATAAAGA
GATCTGTTGGAACCTGCAGAACATCCGTCTCCGGAGTGTGAGCTGAGCCCTGGTGTGAAGTGGGACCTGACCCGG
CGCGTTTCGAACATCAACGGCATCACCCAGCACAAAGCAGATTGTGCGCAACGACATCAAGCTGGCGGCCAAGCTG
ATCCACACGCTGGATGACAGGACACAGCTTTGGGCCTCAGAACCAGGGACGCCTCCCTGCCCCAGAGCCTGCCC
TCGCAAAACCCGATCTTGAAGAATATCACCGACTACCTGATCGAGGAAGTAAGCGCCGAGGAGGAGGAGCTGCTG
GGGAGCAGCGGGGGCGCTCCTCCTGAGGAGCCTCCTAAGGAAGGGAACCCGGCAGAGATCAACGTGGAGCGGGAT
GAGAAGTTGATTAAGGTCTTGGACAAGCTCCTCCTTTACCTGCGCATCGTGATTCTTGGATTATTACAACACC
TGTGAGTACCCCAACGAGGACGAGATGCCCAATCGCTGTGGGATCATCCACGTTCCGGGGGCCATGCCACCCAAC
CGCATCAGTCACGGGGAAGTGCTGGAGTGGCAGAAGACTTTTGGAGAGAAGCTCACGCCGTTGCTGAGTGTGCGG
GAGTCACTCTCAGAGGAAGAGGCCCAGAAGATGGGGCGCAAAGACCCAGAGCAGGAAGTGAGGAAGTTCGTACCC
TCCAACACGCAGGAAGTGGGCAAGGATAAGTGGCTGTGCTCCTCTCAGTGGCAAGAAATTCAAGGGTCTGAGTTT
GCGCGCAAACATATCTTCAACAAGCATGCAGAGAAAATTGAGGAAGTGAGAAAGGAAGTCGCGTTTTTTTAAACAAC
TTCTCACTGATGCTAAGCGCCCAGCTCTGCCTGAGATCAAGCCAGCCAGCCACCTGGCCCCGCCAGATACTC
CCCCAGGTTTTGACCCAGGACTCCCCACCCAGACTCCCCAGGGCCTGATGCCCTATGGTCAGCCCCGG
CCCCGATCTTGGGCTATGGAGCTGGTGCTGTCCGCCCTGCAGTCCCCACAGGAGGCCCTCCATACCCCCATGCC
CCGTATGGTGCTGGTCGAGGGAAGTATGATGCCTTCGAGGCCAGGGAGGCTATCCTGGGAAACCTCGCAACAGG
ATGGTTCTGTGAGACCCAAGGGCCATTGTGGAATATCGGGACCTGGATGCCCCAGACGATGTTGATTTCTTTTGA
GCCGTCCCCCGTTCTCAGTCCTGTATCATCCATACTTGTACTACCTTGTCTATGAAGCTCTGAGAATTTTTTG
TACGATCAGCCTTACTGCTAATAAAAGCACTTCCACAGGGAAAAA

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FIGURE 253

CCGCAGAACTTGGGGAGCCGCCGCCCATCCGCCGCCGAGCCAGCTTCCGCCGCCGAGGACCGGCCCTGCC
CCAGCCTCCGCAGCCGCGGCGGTCCACGCCCCGCCGCCAGGGCGAGTCGGGGTCGCCGCTGCACGCTTCT
CAGTGTTCCCCGCGCCCCGCATGTAACCCGCCAGGCCCCCGCAACGGTGTCCCCTGCAGCTCCAGCCCCGGCT
GCACCCCCCGCCCCGACACCAGCTCTCCAGCCTGCTCGTCCAGGATGGCCGCGGCCAAGGCCGAGATGCAGCTG
ATGTCCCCGCTGCAGATCTCTGACCCGTTCCGATCCTTTCTCACTCGCCACCATTGGACAACCTAACCTAAGCTG
GAGGAGATGATGCTGCTGAGCAACGGGGCTCCCCAGTTCTCGGCGCCGCCGGGGCCCCAGAGGGCAGCGGCAGC
AACAGCAGCAGCAGCAGCAGCGGGGGCGGTGGAGGCGGCGGGGGCGGCAGCAACAGCAGCAGCAGCAGCAGCACC
TTCAACCCTCAGGCGGACACGGGCGAGCAGCCCTACGAGCACCTGACCGCAGAGTCTTTTCTGACATCTCTCTG
AACAACGAGAAGGTGCTGGTGGAGACCAGTTACCCAGCCAAACCACTCGACTGCCCCCATCACCTATACTGGC
CGCTTTTCCCTGGAGCCTGCACCCAACAGTGGCAACACCTTGTGGCCCGAGCCCCCTCTTCACTTGGTCAGTGGC
CTAGTGAGCATGACCAACCCACCGGCTCCTCGTCTCAGCACCATCTCCAGCGGCTCCTCCGCTCCGCTCC
CAGAGCCACCCCTGAGCTGCGCAGTGCCATCCAACGACAGCAGTCCCATTACTCAGCGGCACCCACCTTCCCC
ACGCCGAACACTGACATTTTCCCTGAGCCACAAAGCCAGGCTTCCCGGGCTCGGCAGGGACAGCGCTCCAGTAC
CCGCTCCTGCCTACCCTGCCGCCAAGGGTGGCTTCCAGGTTCCCATGATCCCCGACTACCTGTTTCCACAGCAG
CAGGGGGATCTGGGCCTGGGCACCCAGACCAGAAGCCCTTCCAGGGCCTGGAGAGCCGCACCCAGCAGCCTTCG
CTAACCCTCTGTCTACTATTAAGGCCCTTGGCACTCAGTCGGGCTCCAGGACCTGAAGGCCCTCAATACCAGC
TACCAGTCCCAGCTCATCAAAACCAGCCGCATGCGCAAGTATCCAACCGGCCAGCAAGACGCCCCCCCCACGAA
CGCCCTTACGCTTGGCCAGTGGAGTCTGTGATCGCCGCTTCTCCCGCTCCGACGAGCTCACCCGCCACATCCGC
ATCCACACAGGCCAGAAGCCCTTCCAGTGCCGCATCTGCATGCGCAACTTCAGCCGCAGCGACCACCTCACCACC
CACATCCGCACCCACACAGGCGAAAAGCCCTTCGCCTGCGACATCTGTGGAAGAAAGTTTGGCAGGAGCGATGAA
CGCAAGAGGCATACCAAGATCCACTTGCGGCAGAAAGGACAAGAAAGCAGACAAAAGTGTGTGGCCTCTTCGGCC
ACCTCCTCTCTCTCTTCCCTACCCGTCCCCGGTTGCTACCTCTTACCCGTCCCCGGTTACTACCTCTTATCCATCC
CCGGCCACCACCTCATACCATCCCCTGTGCCACCTCCTTCTCCTCTCCCGGCTCCTCGACCTACCCATCCCCT
GTGCACAGTGGCTTCCCCTCCCCTGCGGTGGCCACCACGTACTCCTCTGTGTCCCCCTGCTTTCCCGGCCAGGTC
AGCAGCTTCCCTTCTCAGCTGTACCAACTCCTTCAGCGCTCCACAGGGCTTTCGGACATGACAGCAACCTTT
TCTCCAGGACAATTGAAATTTGCTAAAGGGGAAAGGGGAAAGAAAGGGGAGAAAAAGAAACACAAGAGA
CTTAAAGGACAGGAGGAGGAGATGGCCATAGGAGAGGAGGGTTCTCTTAGGTCAGATGGAGGTTCTCAGAGCCA
AGTCTCCCTCTCTACTGGAGTGAAGGTCTATTGGCCAACAATCCTTTCTGCCCACTTCCCTTCCCCAATTAC
TATTCCCTTTGACTTCAGCTGCCTGAAACAGCCATGTCCAAGTTCTTACCTCTATCCAAAGAACTTGATTGCA
TGGATTTTGGATAAATCATTTTCACTATCATCTCCATCATATGCCTGACCCCTTGCTCCCTTCAATGCTAGAAAAT
CGAGTTGGCAAAATGGGGTTTGGGCCCCCTCAGAGCCCTGCCCTGCACCCTTGACAGTGTCTGTGCCATGGATTT
CGTTTTTCTTGGGGTACTCTTGATGTGAAGATAATTTGCATATTCTATTGTATTATTTGGAGTTAGGTCCTCACT
TGGGGGAAAAAAAAAAAAAAAAAGCCAAGCAAACCAATGGTGATCCTCTATTTTGTGATGATGCTGTGACAATAAG
TTTGAACCTTTTTTTTTTGAACAGCAGTCCAGTATTCTCAGAGCATGTGTCAGAGTGTGTTCGGTTAACCTTT
TTGTAAATACTGCTTGACCGTACTCTCACATGTGGCAAAATATGGTTTGGTTTTTCTTTTTTTTTTTGAAAGTG
TTTTTTCTTCGTCTTTTTGGTTTAAAAAGTTTACAGTCTTGGTGCTTTTGTGTGATGCCCCTTGCTGATGGCTT
GACATGTGCAATTGTGAGGGACATGCTCACCTCTAGCCTTAAGGGGGGCAGGGAGTGATGATTGGGGGAGGCTT
TGGGAGCAAAATAAGGAAGAGGGCTGAGCTGAGCTTCGGTTCTCCAGAATGTAAGAAAACAAAATCTAAACAAA
ATCTGAACCTCTCAAAAGTCTATTTTTTTAACTGAAAATGTAAATTTATAAATATATTCAGGAGTTGGAATGTTGT
AGTTACCTACTGAGTAGGCGCGATTTTTTGTATGTTATGAACATGCAGTTCATTATTTTGTGGTTCTATTTTACT
TTGTACTTGTGTTTGTCTAAACAAAGTGACTGTTTGGCTTATAAACACATTGAATGCGCTTTATTGCCCATGGGA
TATGTGGTGATATCCTTCAAAAAATTAAACGAAAATAAAGTAGCTGCGATTGGG

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FIGURE 254

MAAKAEMQLMSPLQISDPFGSFPHSPTMDNYPKLEEMLLSNGAPQFLGAAGAPEGSGSNSSSSSSGGGGGGGG
GSNSSSSSSSTFNPQADTGEQPYEHLTAESFPDISLNNEKVLVETSYPSQTTRLPPITYTGRFSLEPAPNSGNTLW
PEPLFSLVSGLVSMTNPPASSSSAPSPAASSASASQSPPLSCAVPSNDSSPIYSAAPTFFPTPNTDIFPEPQSQAF
PGSAGTALQYPPPAYPAAKGGFQVPMIPDYLFPQQQDLGLGTPDQKPFQGLSRTQQPSLTPLSTIKAFATQSG
SQDLKALNTSYQSOLIKPSRMRKYPNRPSKTPPHERPYACPVESCDRRFSRDELTRHIRIHTGQKPFQCRICMR
NFSRSDHLTTHIRTHTGEKPFACDICGRKFARSDEKRHTKIHLRQDKKADKSVVASSATSSLSSYPSPVATSY
PSPVTTSYPSPATTSYSPSPVPTSFSSPGSSSTYSPVHSGFPSPSVATTYSSVPPAFPAQVSSFPSSAVTNSFSAS
TGLSDMTATFSPRTIEIC

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FIGURE 255

CTTCCCCTTCTCTGCCCTGCTCCAGGCACCAGGCTCTTTCCCTTCAGTGTCTCAGAGGAGGGGACGGCAGCACC
ATGGACCCCCGCTTGTCCACTGTCCGCCAGACCTGCTGCTGCTTCAATGTCCGCATCGCAACCACCGCCCTGGCC
ATCTACCATGTGATCATGAGCGTCTTGTTGTTTCATCGAGCACTCAGTAGAGGTGGCCCATGGCAAGGCGTCTGCG
AAGCTCTCCCAGATGGGCTACCTCAGGATCGCTGACCTGATCTCCAGCTTCCTGCTCATCACCATGCTCTTCATC
ATCAGCCTGAGCCTACTGATCGGCGTAGTCAAGAACCGGGAGAAGTACCTGCTGCCCTTCCTGTCCCTGCAAATC
ATGGACTATCTCCTGTGCCTGCTCACCTGCTGGGCTCCTACATTGAGCTGCCCGCCTACCTCAAGTTGGCCTCC
CGGAGCCGTGCTAGCTCCTCCAAGTTCCCCCTGATGACGCTGCAGCTGCTGGACTTCTGCCTGAGCATCCTGACC
CTCTGCAGCTCCTACATGGAAGTGCCACCTATCTCAACTTCAAGTCCATGAACCACATGAATTACCTCCCCAGC
CAGGAGGATATGCCTCATAACCAGTTCATCAAGATGATGATCATCTTTTCCATCGCCTTCATCACTGTCTTATC
TTCAAGGTCTACATGTTCAAGTGCGTGTGGCGGTGCTACAGATTGATCAAGTGCATGAACTCGGTGGAGGAGAAG
AGAAACTCCAAGATGCTCCAGAAGGTGGTCTTGCCGTCTACGAGGAAGCCCTGTCTTTGCCATCGAAGACCCCA
GAGGGGGGGCCAGCACCACCCCATACTCAGAGGTGTGACCCCTCGCCAGGCCCCAGCCCCAGTGTGGGAGGGGT
GGAGCTGCCTCATAATCTGCTTTTTTGGCTTTGGTGGCCCCCTGTGGCCTGGGTGGGCCCTCCCGCCCCCTCCCTGGC
AGGACAATCTGCTTGTGTCTCCCTCGCTGGCCTGCTCCTCCTGCAGGGCCTGTGAGCTGCTCACAACCTGGGTCAA
CGCTTTAGGCTGAGTCACTCCTCGGGTCTCTCCATAATTACGCCAACAATGCTTGGTTTTATTTCAATCAGCTCT
GACACTTGTTTTAGACGATTGGCCATTCTAAAGTTGGTGAGTTTGTCAAGCAACTATCGACTTGATCAGTTCAGCC
AAGCAACTGACAAATCAAAAACCCACTTGTCAGTTCAGTAAATAATTTGGTCAAACAACAGTCTATTGCATTGA
TTTATAAATAGTTGTCAGTTCACATAGCAATTTAATCAAGTAATCATTAAATTAGTTACCCCTATATATAAATAT
ATGTAATCAATTTCTTCAAATAGCTTGCTTACATGATAATCAATTAGCCAACCATGAGTCATTTAGAATAGTGAT
AAATAGAATACACAGAATAGTGATGAAATTCATTTAAAAAATCACGTTAGCCTCCAAACCATTTAATTCAAATG
AACCCATCAACTGGATGCCAACTCTGGCGAATGTAGGACCTCTGAGTGGCTGTATAATTGTTAATTCAAATGAAA
TTCATTTAAACAGTTGACAACTGTCATTCAACAATTAGCTCCAGGAAATAACAGTTATTTTCATCATAAAACAGT
CCCTTCAAACACACAATTGTTCTGCTGAAGAGTTGTCATCAACAATCCAATGCTCACCTATTCAGTTGCTCTGTG
GTCAGTGTGGCTGCATAGCAGTGGATTCCATGAAAGGAGTCATTTTAGTGATGAGCTGCCAGTCCATTCCCAGGC
CAGGCTGTGCTGGCCATCCATTAGTCGATTAGTCATAGGCGAATCTGTTCTGCCCCGAGGCTTGTGGTCAAGC
AAAAATTCAGCCCTGAAATCAGGCACATCTGTTTCGTTGGACTAAACCCACAGGTTAGTTCAGTCAAAGCAGGCAA
CCCCCTTGTGGGCACTGACCCTGCCACTGGGGTCATGGCGGTTGTGGCAGCTGGGGAGGTTTGGCCCCAACAGCC
CTCCTGTGCCTGCTTCCCTGTGTGTCGGGGTCCTCCAGGGAGCTGACCCAGAGGTGGAGGCCACGGAGGCAGGGT
CTCTGGGGACTGTGCGGGGGGTACAGAGGGAGAAGGCTCTGCAAGAGCTCCCTGGCAATACCCCTTGTGTAATTG
CTTTGTGTGCGACAGGGAGGAAGTTTCAATAAAGCAACAACAAGCTTCAAGGAATTC

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FIGURE 256

MLPRLSTVRQTCCCFNVRIATTALAIYHVIMSVLLFIEHSVEVAHGKASCKLSQMGYLRIADLISSFLLITMLFI
LSLLIGVVKNREKYLLPFLSLQIMDYLLCLLTLLGSYIELPAYLKLASRSRASSSKFPLMTLQLLDFCLSILT
LCSSYMEVPTYLNFKSMNHMNYLPSQEDMPHNQFIKMMIIFSIAFITVLIFKVYMFKCVWRCYRLIKCMNSVEEK
RNSKMLQKVVLPSEYEALSLPSKTPEGGPAPPYSEV

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FIGURE 257

CACGAGGGAGCGCTAACGTCCTTTCTGTCTCCCGCGGTGGTGAACGCGGTGAAAACCTGAGGCTGCTAAGGGCACC
CTCACTTACTCCAGGATGAGGGGCATGGTGGCAATTCTCATCGCTTTTCATGAAGCAGAGGAGGATGGGTCTGAAC
GACTTTATTGAGAAGATTGCCAATAACTCCTATGCATGCAAACACCTGAAGTTCAGTCCATCTTGAAGATCTCC
CAACCTCAGGAGCCTGAGCTTATGAATGCCAACCCTTCTCCTCCACCAAGTCCCTTCTCAGCAAATCAACCTTGGC
CCGTCGTCCAATCCTCATGCTAAACCATCTGACTTTCACTTCTTGAAAGTGATCGGAAAGGGCAGTTTTGGAAAG
GTTCTTCTAGCAAGACACAAGGCAGAAGAAGTGTTCTATGCAGTCAAAGTTTTACAGAAGAAAGCAATCCTGAAA
AAGAAAGAGGAGAAGCATATTATGTCGGAGCGGAATGTTCTGTTGAAGAATGTGAAGCACCTTTTCTGGTGGGC
CTTCACTTCTCTTCCAGACTGCTGACAAATTGTACTTTGTCTAGACTACATTAATGGTGGAGAGTTGTTCTAC
CATCTCCAGAGGGAACGCTGCTTCTGGAACACGGGCTCGTTTTCTATGCTGCTGAAATAGCCAGTGCCTTGGGC
TACCTGCATTCACTGAACATCGTTTTATAGAGACTTAAACCAGAGAATATTTTGCTAGATTACAGGGACACATT
GTCCTTACTGATTTCCGACTCTGCAAGGAGAACATTGAACACAACAGCACAAACATCCACCTTCTGTGGCACGCCG
GAGTATCTCGCACCTGAGGTGCTTCATAAGCAGCCTTATGACAGGACTGTGGACTGGTGGTGCCTGGGAGCTGTC
TTGTATGAGATGCTGTATGGCCTGCCGCCTTTTTATAGCCGAAACACAGCTGAAATGTACGACAACATTCTGAAC
AAGCCTCTCCAGCTGAAACCAATATTACAAATTCCGCAAGACACCTCCTGGAGGGCCTCCTGCAGAAGGACAGG
ACAAAGCGGCTCGGGGCCAAGGATGACTTCATGGAGATTAAGAGTCATGTCTTCTCTCTTAATTAACCTGGGAT
GATCTCATTAAATAAGAAGATTACTCCCCCTTTTAAACCAAAATGTGAGTGGGCCCAACGAGCTACGGCATTGTGAC
CCCGAGTTTACCAGAGAGCCTGTCCCCAACTCCATTGGCAAGTCCCCTGACAGCGTCTCTGTCACAGCCAGCGTC
AAGGAAGCTGCCGAGGCTTTCCTAGGCTTTTCTATGCGCTCCACGGACTCTTCTCTCTGAACCTGTTAGGG
CTTGGTTTTTAAAGGATTTTATGTGTGTTTCCGAATGTTTTAGTTAGCCTTTTGGTGGAGCCGCCAGCTGACAGGA
CATCTTACAAGAGAATTTGCACATCTCTGGAAGCTTAGCAATCTTATTGCACACTGTTGCTGGAATTTTTTGAA
GAGCACATTCTCCTCAGTGAGCTCATGAGGTTTTCATTTTTATTCTTCTTCCAACGTGGTGCTATCTCTGAAAC
GAGCGTTAGAGTGCCGCCTTAGACGGAGGCAGGAGTTTTCGTTAGAAAGCGGACCTGTTCTAAAAAAGGTCTCCTG
CAGATCTGTCTGGGCTGTGATGACGAATATTATGAAATGTGCCTTTTCTGAAGAGATTGTGTTAGCTCCAAAGCT
TTTCTATCGCAGTGTTTCAGTCTTTATTTTCCCTTGTGGATATGCTGTGTGAACCGTCGTGTGAGTGTGGTAT
GCCTGATCACAGATGGATTTTGTATAAGCATCAATGTGACACTTGCAGGACACTACAACGTGGGACATTGTTTG
TTTCTTCCATATTTGGAAGATAAATTTATGTGTAGACTTTTTTGTAAAGATACGGTTAATAACTAAAAATTTATTGA
AATGGTCTTGCAATGACTCGTATTGATGCCTAAAGAAAGCATTGCTGCTACAAATATTTCTATTTTTAGAAAG
GGTTTTTATGGACCAATGCCCCAGTTGTCAGTCAGAGCCGTTGGTGTTTTTTCAATTGTTTAAATGTACCTGTAA
AATGGGCATTATTTATGTTTTTTTTTTTGCATTCTGATAATTGTATGTATTGTATAAAGAACGTCTGTACATTG
GGTTATAACACTAGTATATTTAACTTACAGGCTTATTTGTAATGTAAACCACCATTTTAAATGTACTGTAATTAA
CATGGTTATAATACGTACAATCCTTCCCTCATCCCATCACAACTTTTTTGTGTGTGATAAACTGATTTTGGT
TTGCAATAAAACCTTGAAAAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 258

MTVKTEAAKGTLTYSRMRGMVAILIAFMKQRRMGLNDFIQKIANN SYACKHPEVQSILKISQPQEPELMNANPSP
PPSPSQQINLGPSSNPHAKPSDFHFLKVIGKGSFGKVLLARHKAEEVFYAVKVLQKKAILKKKEEKHIMSERNVL
LKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKP
ENILLDSQGHIVLTD FGLCKENIEHNSTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSR
NTAEMYDNILNKPLQLKPNITNSARHLLEGLLQKDR TKRLGAKDDFMEIKSHVFFSLINWDDLINKKITPPFNPN
VSGPNELRHFDPEFTEEPVPNSIGKSPDSVLVTASVKEAAEAFLGFSYAPPTDSFL

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FIGURE 259

GGCCTGTTCTCGAGTCCGCGCTTTTCGTCACCGCCATGTCGGGAGGTGGTGTGATTTCGTGGCCCCGCAGGGAACA
ACGATTGCCGCATCTACGTGGGTAACCTACCTCCAGACATCCGAACCAAGGACATTGAGGACGTGTTCTACAAAT
ACGGCGCTATCCGCGACATCGACCTCAAGAAATCGCCGCGGGGACCGCCCTTCGCCTTCGTTGAGTTCGAGGACC
CGCGAGACGCGGAAGACGCGGTGTATGGTCGCGACGGCTATGATTACGATGGGTACCGTCTGCGGGTGGAGTTTC
CTCGAAGCGGCCGTGGAACAGGCCGAGGCGGCGGGGGTGGAGGTGGCGGAGCTCCCCGAGGTTCGTATGGCC
CCCCATCCAGGCGGTCTGAAAACAGAGTGGTTGTCTCTGGACTGCCTCCAAGTGGAAGTTGGCAGGATTTAAAGG
ATCACATGCGTGAAGCAGGTGATGTATGTTATGCTGATGTTTACCGAGATGGCACTGGTGTCTGAGTTTGTAC
GGAAAGAAGATATGACCTATGCAGTTCGAAAACGGATAACACTAAGTTTAGATCTCATGAGGGAGAACTGCCT
ACATCCGGGTAAAGTTGATGGGCCCCAGAAGTCCAAGTTATGGAAGATCTCGATCTCGAAGCCGTAGTCGTAGCA
GAAGCCGTAGCAGAAGCAACAGCAGGAGTCGCAGTTACTCCCCAAGGAGAAGCAGAGGATCACCACGCTATTCTC
CCCGTCATAGCAGATCTCGCTCTCGTACATAAGATGATTGGTGACACTTTTTGTAGAACCCATGTTGTATACAGT
TTTTCTTTATTTCAGTACAATCTTTTCATTTTTTAATTCAAACCTGTTTTGTTTCAAGATGGGCTAAAGTGTGAAAT
GCATTCTTGTAATATCCCCCTTGCTCCTAACATCTACATTCCCTTCGTGTCTTTGATAAATTGTATTTTAAGTGAT
GTCATAGACAGGATTGTTTTAAATTTAGTTAACTCCATACTCTTCAGACTGTGATATTGTGTAAATGTCTATCTGC
CCTGGTTTGTGTGAACTGGGATGTTGGGGGTGTTTGTGGTTATCTTACCTGGGGAAGTTCTTATGTTTATCTTGC
TTTTCATGTGTCTTTCTGTAGACATATCTGAAGAGATGGATTAAGAATGCTTTGGATTAAGGATTGTGGAGACA
TTTCAATCATTTTAGGATTGTCAAAGGAGGATTGAGGAGGATCAGATCAATAATGGAGGCAATGGTATGACTCC
AAGTGCTATTGTACAGATGAAATTGGCAGTATTGACCTTATACTAAAAGGCAGGGGTAAAAATGATTATATAC
ATTTTCCTTAAACACTTGCAAACATTTTATTTCAGTTGTCTTTAGCTACAATTGCTTTTGTCTTTTAAACCTTGGC
AATTGTGGCAAAATTAATATGCCCATTTTGTAGCAACTTATTTTGTCTCCCTTCCCCCATTTTGTTTTAAATAGG
GACTAATGTGGGAAGAACTGGCTAATTTGTACAGTGCTTAGTTACAACCTGTTAATGTGTGACCTGCTGTTGGTG
TACATGTGGGTACAGGGTGTTTTTAAATCCAACAAGATAGAGTATAAATATCAATACTGCTAAATCTGCATGTCTT
CTGTGTGACTGATAGAGCGTTGCTATTTTCATTTTTTTAAGACAAAATGAAAGCAAAATATAGAGTTCCAATGTAT
TGGTGTAGATAATCTAGTTGGGAATACTTTAAGTCTCACCTTCCCCTTTAAACTAATATTCTATAATTGGTTTCAT
ATGTTTAAAAGACTTTAATTTACAAATTAATTTGCAAATGGGAGCATTAGATTAGTTTGTAGACTTAGGTGGGTA
GCAATGCCAGTAACTTAAATTACGTAACCTTCTTGCAACCACGAAACCTGTAATACGCTGTACAGTAACAAGTGT
TGGCATTATCAGTTGAAGTGTAAATACAAAATGCTTCTTCCAATTAGTCTCTATGATGATTAAAGTTTCTAAATTT
TATCTGAACACCATTACAGAACTTGTTTTGGGGAATTTGATAGTTATTGATGTGCATCTGTTAAACTGATGACAG
ACATAACTCATCATTCCCCAGAAACCTTTTTTGTATTACAGTATCTAACATTTGCCTCCTCTTTTTTGGTTTTTGC
TGGTTATAAAGGTTTGGATTGGAGAGGGCTCACTGGATCCCAATCCTTGGAGCTGGATCATTGGATTCAAATCAT
AATGTGGATAGGATAGGGAGGATGAATTACCAGGATTTCATGGAGCGGGATCAGATTACCAGGAACATAGGAGTGG
ATTCTGCCCCAACCACCGCATTTCGTGTGGATTTTTTTTATTCAACTTAATTGGCTATTCCAAAGATTTTTTTT
TTCTATTTTTGACGATTGGAGCCCTTAAGATGCACGATGGAATTGTGTTTTGCGTTTTTGGTAAAAGGAGCAA
AGCGAGGACCTGGAGATAAACGCTGGAGCAATCTCCTTGAAGGATTACAGCACGAGTAGATGGTAAACATTTAAA
GGGGAAGGGGGGGTGTGTTTAAATAGTAAATCAGTAAGTCACTTCTAAATTTAAAGAAAACAAAATTGGAGTT
GAAGAATAAGTAGGTTTCCAATTGGCTATTGCCGTTTTCTTTGAAAAAATAAACATTTTTTAAAAACAAAAAA
AAAAAAA

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FIGURE 260

MSGGGVIRGPAGNDCRIYVGNLPPDIRTKDIEDVFYKYGAIRDIDLKNRRGGPPFAFVEFEDPRDAEDAVYGRD
GYDYDGYRLRVEFPRSGRGTGRGGGGGGGGGAPRGYGPSSRRSENRRVVVSGLPPSGSWQDLKDHMREAGDVCYA
DVYRDGTGVVEFVRKEDMTYAVRKL DNTKFRSHEGETAYIRVKVDGPRSPSYGRSRSRSRSRSRSRSRSRNSRSRS
YSPRRSRGSPRYSPRHSRSRSRT

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FIGURE 261

AGATAACAAGAGTAATCCACAGACTTAAACATGAGCTCAGATGCCAGCCAAGGCGTGATTACCACTCCTCCTCC
TCCCAGCATGCCTCACAAGAGAGATATTTTGACCGCATCAATGAAAATGACCCAGAATACATTAGGGAGAGGAA
CATGTCTCCTGATCTACGACAAGACTTCAACATGATGGAGCAGAGGAAACGAGTTACTCAGATCCTGCAAAGTCC
TGCCTTTTCGGGAAGACTTGGAATGCCTTATTCAAGAACAGATGAAGAAAGGCCACAACCCAACTGGATTACTAGC
ATTACAGCAGATTGCAGATTACATCATGGCCAATTCTTTCTCGGGTTTTTCTTCACCTCCTCTCAGTCTTGGCAT
GGTCACACCTATCAATGACCTTCCTGGTGCAGATACATCCTCATATGTGAAGGGAGAAAACTTACTCGCTGTAA
ACTTGCCAGCCTGTACAGACTTGTAGACTTGTGATGGGCACACCTGGCAAATACCTATATCTCAGTAAGAAT
AAGTAAGGAGCAAGACCACATTATAATAATCCCAGAGGCCATCTTTTTCTGAAGCTACAGCCTCCAATTTGGT
GAAAGTCAATATAATAGGAGAAGTGGTTGACCAGGGGAAGTACCAATTTGAAAATTGACCATACAGGATTAGTCC
CCATGCTGCAATCTATTCAACACGTCTGATGTTAAGTGTGTCATACACATCCATACCCTTGCAACAGCAGCTGT
ATCCTCCATGAAATGTGGGATCCTTCCAATTTCTCAAGAGTCTCTTCTTCTGGGAGATGTTGCCTATTATGACTA
CCAAGGGTCACTTGAAGAACAGGAGGAGAGAATCAACTGCAGAAGGTTCTGGGACCAAGTTGTAAGGTGCTGGT
ACTCAGGAATCATGGTGTGGTTGCACTTGAGAGAACATTAGAGGAGGCTTTTCATTATATTTTTAATGTGCAACT
AGCCTGTGAGATTAGGTTGCAGGCCCTAGCAGGTGCAGGTGGAGTAGACAATCTCCATGTACTGGACTTTCAGAA
GTATAAAGCTTTCACTTACACTGTAGCAGCGTCTGGTGGAGGAGGTGTGAATATGGGTTCCCAACAAAAATGGAA
GGTTGGCGAAATTGAGTTTGAAGGGCTTATGAGGACTCTGGACAACCTTGGGGTATAGAACAGGCTATGCTTACAG
GCATCCTCTCATTGAGAGAAGCCTAGGCACAAGAGTGATGTGGAATCCAGCAACTGTGACTGCTTTTTCTT
TGAAGACGATACAGTGCCACTCTCTCCTCTCAAATACATGGCACAGAGGCAACAGCGTGAAAAAACAGATGGCT
GAACTCACCAAATACTTACATGAAAGTGAATGTGCCTGAGGAGTCTCGGAACGGAGAAAACAGTCCCCGAACCAA
AATCAGTGAGTGAAGCAGAAGACTCATCTAAAGTTAGTGGTGAACACCTATCAAAATTGAAGATCCAAATCA
GTTTGTTCTTTTAAACACAAACCCGAATGAGGTACTAGAAAAGAGAAATAAGATTCCGGGAACAAAATCGATATGA
CTTGAAGACAGCAGGACCACAATCTCAGTTGCTTGTGGAATTGTTGTGGATAAGCCACCTTCTACTATGCAATT
TGAAGATGATGATCATGGCCCACCAGCTCCTCCTAACCCATTTAGTCATCTCACAGAAGGAGAACTTGAAGAGTA
TAAGAGGACAATCGAACGTAAACAACAAGGCCTAGAAGATGCTGAGCAGGAATTACTCTCAGATGACGCTTCATC
TGTTTCACAAATTCAGTCTCAAACCTCAGTCACCGCAAATGTCCCTGAAAAATTAGAAGAAAACCATGAGCTGTT
TTCCAAGAGCTTCATCTCCATGGAAGTGCCTGTGATGTTAGTAAATGGCAAGGATGATATGCATGATGTTGAAGA
TGAGCTTGCTAAGCGAGTGAGTAGGTTAAGCACAAGTACAACCATAGAAAACATCGAGATTACTATTAAGTCTCC
AGAGAAAATCGAAGAAGTCTGTACCTGAAGGCTCCCCTTCAAATCGCCATCCAAGAAAAAGAAAGAAATTCCG
CACTCCTTCTTTTCTGAAAAAGAACAAAAAAAGGAGAAAGTTGAGGCCATAATAAAGTCTTTTTATAATTATTA
TTATAACAATGTGACATTGCACATCTAAATACCACATTTAAGTTGATCATTAATATGCAATGGTAGATCAGATTG
GGGGATGTAGCAAACCTGGACTTTAAGAACTGGAAAGAGGTTTTACAAAAGAAAACTTTTCAGATTCATCTCAT
TTTATATGTCCAGAAATGGCTTTGAATTTTAAGCAATTACTAGTTTTAATTAGCTCTGCCCTCATGAAGTATTAT
TATAATTCACCATAAACAGCTATCTGTCTGAATTACTTCAGGCCTTCTCCATAATATCTGTTAGAAAGAAATTGC
CAGTGAGCAAGTGAGAATTTTTATTTCTCAATACCTGCTTCACTTGATAATCATATTATAATTTTTTATCATGAT
TATTGACTATATTTTTGGAGTCCCATTGTTTCAGTGGGCATTAACAGAATGCTTTAAAACTTCTAAGACAAGAA
TCTATAGCATTAGTATACACTGGCACATAATTTTTTAAAAAGTTTTAAGAAAAGATTCAATTTGGAATTTTATTCA
CAGTATAAAATTTCTCACCTGAAGTAACTTTGTTTGCCAAAAAGTTGTTTTAATAAACTATAATTTTTGAAAA
CTTCTTTTTTTATTAGTTTAGAAAGCCCCTTATTTTTCAACAAAAGGGGATTTTGTACACATAACATGGGTTATTT
AGTTTAACTCTGGC

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FIGURE 262

MDSASQGVITTPPPSPMPHKERYFDRINENDPEYIRERNMSPDLRQDFNMMEQRKRVTOILQSPAFREDLECLI
QEQMKKGHNPTGLLALQQIADYIMANSFSGFSSPPLSLGMVTPINDLPGADTSSYVKGEKLTRCKLASLYRLVDL
FGWAHLANTYISVRISKEQDHIIIPRGLSFSEATASNLVKVNIIGEVVDQGSTNLKIDHTGFSPHAAIYSTRPD
VKCVIHIHTLATAAVSSMKCGILPISQESLLLGDVAYDYQGSLEEQEERIQLQKVLGSPCKVLVLRNHGVVALG
TEAFHYIFNVQLACEIQVQALAGAGGVDNLHVLDFOKYKAFTYTTVAASGGGGVNMGSHQKWKVGEIEFEGLM
NLGYRTGYAYRHPLIREKPRHKS DVEIPATVTAFSFEDDTVPLSPLKYMAQRQQREKTRWLN SPNTYMKVN
FSRNGETSPRTKITWMKAEDSSKVSGGTPIKIEDPNQFVPLNTNPNEVLEKRNKIREQNRYDLKTAGPQSQL
AGIVVDKPPSTMQFEDDDHGPPAPPNPF SHLTEGELEEYKRTIERKQOGLEDAEQELLSDDASSVSQIQSQTQS
AVPEKLEENHELFSKSFISMEVPVMVNGKDDMHDVEDELAKRVSRLSTSTTIENIEITIKSPEKIEEVL SPE
SKSPSKKKKKFRTPSFLKKNKKKEKVEA

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FIGURE 263

ATATAACCGCGTGGCCCGCGCGCGCTTCCCTCCCGGCGCAGTCACCGGCGCGGTCTATGGCTGCGACTTCTCT
AATGTCTGCTTTGGCTGCCCCGGCTGCTGCAGCCCCGCGCACAGCTGCTCCCTTCGCCTTCGCCCTTCCACCTCGC
GGCAGTTCGAAATGAAGCTGTTGTCAATTTCTGGAAGGAACTGGCCCAGCAGATCAAGCAGGAAGTGCGGCAGGA
GGTAGAAGAGTGGGTGGCTCAGGCAACAAACGGCCACACCTGAGTGTGATCCTGGTTGGCGAGAATCCTGCAAG
TCACTCCTATGTCCTCAACAAAACCAGGGCAGCTGCAGTTGTGGGAATCAACAGTGAGACAATTATGAAACCAGC
TTCAATTTAGAGGAAGAATTGTTGAATTTAATCAATAAACTGAATAATGATGATAATGTAGATGGCCTCCTTGT
TCAGTTGCCTCTTCCAGAGCATATTGATGAGAGAAGGATCTGCAATGCTGTTTCTCCAGACAAGGATGTTGATGG
CTTTCATGTAATTAATGTAGGACGAATGTGTTTGGATCAGTATTCCATGTTACCGGCTACTCCATGGGGTGTGTG
GGAAATAATCAAGCGAAGTGGCATTCCAACCCTAGGGAAGAATGTGGTTGTGGCTGGAAGGTCAAAAAACGTTGG
AATGCCCATTGCAATGTTACTGCACACAGATGGGGCGCATGAACGTCCCGGAGGTGATGCCACTGTTACAATATC
TCATCGATATACTCCCAAAGAGCAGTTGAAGAAACATAACAATCTTGCAGATATTGTAATATCTGCTGCAGGTAT
TCCAAATCTGATCACAGCAGATATGATCAAGGAAGGAGCAGCAGTCATTGATGTGGGAATAAATAGAGTTCACGA
TCCTGTAACTGCCAAACCCAGTTGGTTGGAGATGTGGATTTTGAAGGAGTCAGACAAAAGCTGGGTATATCAC
TCCAGTTCCTGGAGGTGTTGGCCCCATGACAGTGGCAATGCTAATGAAGAATACCATTATTGCTGCAAAAAGGT
GCTGAGGCTTGAAGAGCGAGAAGTGCTGAAGTCTAAAGAGCTTGGGGTAGCCACTAATTAACTACTGTGTCTTCT
GTGTCACAAACAGCACTCCAGGCCAGCTCAAGAAGCAAAGCAGGCCAATAGAAATGCAATATTTTTAATTTATTC
TACTGAAATGGTTTAAATGATGCCTTGATTTATTGAAAGCTTAAATGGGTGGGTGTTTCTGCACATACCTCTG
CAGTACCTCACCAGGGAGCATTCCAGTATCATGCAGGGTCTGTGATCTAGCCAGGAGCAGCCATTAACTAGTG
ATTAATATGGGAGACATTACCATATGGAGGATGGATGCTTCACTTTGTCAAGCACCTCAGTTACACATTCGCCTT
TTCTAGGATTGCATTTCCCAAGTGCTATTGCAATAACAGTTGATACTCATTTTAGGTACCAGACCTTTTGAGTTC
AACTGATCAAACCAAAGGAAAAGTGTGCTAGAGAAAATTGGGGAAAAGGTGAAAAAGAAAAATGGTAGTAATT
GAGCAGAAAAAATTAATTTATATATGATTGATTGGCAACCAGATTTATCTAAGTAGAACTGAATTGGCTAGGA
AAAAAGAAAAACTGCATGTTAATCATTTTCCCTAAGCTGTCTTTTGGAGGCTTAGTCAGTTTATTGGGAAAATGTT
TAGGATTATTCCTTGCTATTAGTACTCATTTTATGTATGTTACCCCTCAGTAAGTTCTCCCCATTTTAGTTTTCT
AGGACTGAAAGGATTCTTTTCTACATTATACATGTGTGTTGTCATATTTGGCTTTTGCTATATACTTTAACTTCA
TTGTTAAATTTTGTATTGTATAGTTTCTTTGGTGTATCTTAAACCTATTTTGA AAAACAACTTGGCTTGAT
AATCATTTGGGCAGCTTGGGTAAGTACGCAACTTACTTTTCCACCAAAGAACTGTCAGCAGCTGCCTGCTTTTCT
GTGATGTATGTATCCTGTTGACTTTTCCAGAAATTTTTTAAGAGTTGAGTTACTATTGAATTTAATCAGACTTT
CTGATTAAAGGGTTTTCTTTCTTTTTTAATAAAACACATCTGTCTGGTATGGTA

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FIGURE 264

MSALAARLLQPAHSCSLRLRPFHLAAVRNEAVVISGRKLAQQIKQEVQRQEEWVASGNKRPHLSVILVGENPAS
HSYVLNKTRAAAVVGINSETIMKPASISEEELNLINKLNDDNVDGLLVQLPLPEHIDERRICNAVSPDKDVG
FHVINVGRMCLDQYSMLPATPWGVWEIIKRTGIPTLGKNVVVAGRSKNVGMPIAMLLHTDGAHERPGGDATVTIS
HRYTPKEQLKKHTILADIVISAAGIPNLITADMIKEGAAVIDVGINRVHDPVTAKPKLVGDVDFEGVRQKAGYIT
PVPGGVGPMTVAMLMKNTIIAAKKVLRLEEREVLKSKELGVATN

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FIGURE 265

GGGGGAGTGAAAGCGAAAGCCCGGGCGACTAGCCGGGAGACCAGAGATCTAGCGACTGAAGCAGCATGGCCAAGC
CGTGTGGGGTGCGCCTGAGCGGGGAAGCCGCAAACAGGTGGAGGTCTTCAGGCAGAATCTTTTCCAGGAGGCTG
AGGAATTCCTCTACAGATTCTTGCCACAGAAAATCATATACCTGAATCAGCTCTTGCAAGAGGACTCCCTCAATG
TGGCTGACTTGACTTCCCTCCGGGCCCCACTGGACATCCCCATCCCAGACCCTCCACCCAAGGATGATGAGATGG
AAACAGATAAGCAGGAGAAGAAAGAAGTCCCTAAGTGTGGATTTCTCCCTGGGAATGAGAAAGTCCTGTCCCTGC
TTGCCCTGGTTAAGCCAGAAGTCTGGACTCTCAAAGAGAAAATGCATTCTGGTGATTACATGGATCCAACACCTGA
TCCCCAAGATTGAAGATGGAAATGATTTTGGGGTAGCAATCCAGGAGAAGGTGCTGGAGAGGGTGAATGCCGTCA
AGACCAAAGTGGAAGCTTTCCAGACAACCATTTCCAAGTACTTCTCAGAACGTGGGGATGCTGTGGCCAAGGCCT
CCAAGGAGACTCATGTAATGGATTACCGGGCCTTGGTGCATGAGCGAGATGAGGCAGCCTATGGGGAGCTCAGGG
CCATGGTGCTGGACCTGAGGGCCTTCTATGCTGAGCTTTATCATATCATCAGCAGCAACCTGGAGAAAATTGTCA
CCCCAAAGGGTGAAGAAAAGCCATCTATGTACTGAACCCGGGACTAGAAGGAAAATAAATGATCTATATGTTGTG
TGG

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FIGURE 266

MAKPCGVRLSGEARKQVEVFRQNLFQEAEFLYRFLPQKIIYLNQLLQEDSLNVADLTSLRAPLDIPDPPPKD
DEMETDKQEKKEVPKCGFLPGNEKVL SLLALVKPEVWTLKEKCILVITWIQHLIPKIEDGNDFGVAIQEKVLERV
NAVKTKEAFQTTISKYF SERGDAVAKASKETHVMDYRALVHERDEAAYGELRAMVLDLRAFYAELYHI ISSNLE
KIVTPKGEEKPSMY

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FIGURE 267

AGTCAAGATGGAGGAGTACGCGCGAGAGCCTTGCCCATGGCGAATTGTGGATGACTGTGGTGGGGCCTTTACGAT
GGGTACCATTGGTGGTGGTATCTTTCAAGCAATCAAAGGTTTTCGCAATTCTCCAGTGGGAGTAAACCACAGACT
ACGAGGGAGTTTGACAGCTATTAAAACCAGGGCTCCACAGTTAGGAGGTAGCTTTGCAGTTTGGGGAGGGCTGTT
TTCCATGATTGACTGTAGTATGGTTCAAGTCAGAGGAAAGGAAGATCCCTGGAATCCATCACAAGTGGTGCCTT
AACGGGAGCCATACTGGCAGCAAGAAATGGACCAGTGGCCATGGTTGGGTCAGCCGCAATGGGTGGCATTCTCCT
AGCTTTAATTGAAGGAGCTGGTATCTTGTGACAAGATTTGCCTCTGCACAGTTTCCCAATGGTCCTCAGTTTGC
AGAAGACCCCTCCAGTTGCCTTCAACTCAGTTACCTTCCTCACCTTTTGGAGACTATCGACAATATCAGTAGGA
CTTCTTTCCCTAGGATTTCTTTAACAGAACGAGTTGTGGTTCGAGAAGGATTTCAGAAGATCAAGTTACAGTCTGT
TTTTAAAACCATAGGTGGGACAGCTATGGCCAATAGGCTATAAAGAGACATTTAGCACTTTTTTCTATTTAAAGG
AACAAGCGGGGAAGGGTGCTAAAAGATAATACGTTTATTTATTACACTTGAATTGCATTTGTGATCAAAATAAA
TGTTTAAATCGCTAAAGGAAAATACAGTAAGTGCTTGAAAGATGAAGGACCAAAAGGCCAAAAACAGTGAAATA
TGATCATCATCTCTTGCGGACTTCTCTGCCTGGTTTTGTGTGTTCTGTTATTCAAACAATAAAAAGCTGGTGGAA
CTTACTCTTTCTTTTAAAGATAAGTTGTAGACTTCGATGTTTCATGCTCATGTACTTCAAATAATGCATGTTTTAT
AGTTAGTCCCTCATCACTTGAAGTGACTTCTGAGAATTATGCAGAGTCAACATGGATCATTTTCACAGTGAGATGC
TTTATGGATTGAAGGATATGGTAAAATGTTTATAGTTTACTTTGAAAGTAAAATATACTATGTCTTGGTTTTGAG
GATATTGGATACAAAACCTCTCTTCCTTTAGGGCTACTGAGTCTTGATTCCCTGATCATCAGAAATTTACCAGAAA
CAACTTGCTTCCAATATAACCAATTCTATATGAAGAATTCATGGAGAGTGTACTGGCACTGGAAGAGTTTAGTGT
TTCTTGATGCTTGAAAATAAAGTATGTACTGTTTTGAATGTGTTCCAAGTCCTCTGCATAAACGATGTATTTTG
GGGTCTGGTTGGGCCTGGAAAATGGATGAGCACTTCAGAACAGGTCATTTTCCTGATATTGGAAGTGACATGTGG
CCCTATAGGAGGCATGATGTTAGTTAATTACACATTTGCCTACATCTGTGGGAAATGGAGAACAAAGCCATGTGG
GTACTGTAAACACACGTTTATCTTTTGGCCCAATGCCATACATATGGTAGGCATTTAATTACTGATTGTGTTTGG
ATAATTTGGGAATTTTCGACTGTGGTAAAATATACATAAAATAATACTTATTAAAAA

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FIGURE 268

MEZYAREPCPWRIVDDCGGAFMTGTIGGGIFQAIKGFRNSPVGVNHLRGSLTAIKTRAPQLGGSFAVWGGLFSM
IDCSMVQVRGKEDPWSITSGALTGAILAARNGPVAMVGSAAMGGILLALIEGAGILLTRFASAQFPNGPQFAED
PSQLPSTQLPSSPFGDYRQYQ

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FIGURE 269

AGAGGCTTCCCTGGCTGGTGCCTGAGCCCGGCGTCCCTCGCCCCCGCCCTCCCCGCATCCCTCTCCTCCCTCGC
GCCTGGCCCTGTGGCTCTTCTCCTCCCTCCCTCCTTCCCCCCCCCCCCACCCCTCGCCCGCTGCCTCCCTCGGCCCA
GCCAGCTGTGCCGGCGTTTGTGGCTGCCCTGCGCCCGCCCTCCAGCCAGCCTTCTGCCGGCCCCGCGCGATG

GAGGTGCCCCAGCCGGAGCCCGCGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCCCAGCGTCCG
GGCCACCTCCCGGGCTCCTGCTGGGATCTCATGGCCTCCTGGGGTCCCCGGTGGGGCGGCCGCTTCTCGCCG
GTCACCACCTCACCAGACCATGCACGACCTCGCCGGGCTCGGCAGCCGCAGCCGCCTGACGCACCTATCCCTG
TCTCGACGGGCATCCGAATCCTCCCTGTCGTCGATCCTCCGAATCTTCTGATGCAGGTCTCTGCATGGATTCC
CCCAGCCCTATGGACCCCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTCTGA
AACGAGCAGTTTGGCATCAGACGCTTCCAGTCTATGCCGGTGAAGCTGCTGGGCCACAGCCCCGTGCTTCGGAAC
ATCACCACCTCCAGGCGCCCGACGGCCGGAGGAAGAGCGAGGCGGGCAGTGGAGCTGCCAGCAGCTCTGGGGAA
GACAAGGAGAATGTGCGCTTCTGGAAGGCCGGGGTGGGAGCTCTCCGGGAAGAGGAGGGGGCATGCTGGGGTGGT
TCCCTGGCATGTGAGGACCTCCTCTCCCATCTTGGCTGCAGGATGGATTTGTCTTCAAGATGCCATGGAAGCCC
ACACATCCAGCTCCACCCATGCTCTGGCAGAGTGGGCCAGCCGCAGGGAAGCCTTTGCCCAGAGACCCAGCTCG
GCCCCGACCTGATGTGTCTCAGTCTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCCCTAGGTTCGC
TTCTCTCTGACCCCTGCAGAGGGGATACTGAGGAAGATGATGGATTTGTGGACATCCTAGAGAGTGACTTAAAG
GATGATGATGCAGTTCCCCCAGGCATGGAGAGTCTCATTAGTGCCCCACTGGTCAAGACCTTGGAAAAGGAAGAG
GAAAAGGACCTCGTCATGTACAGCAAGTGCCAGCGGCTCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGG
CCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACACGCCCCGTGCAGAATAAGCGGAGGCGGAGCGTGACC
CCTCCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCCGCTCCTCCGCTCAAAATCACTGTGTACGATGAG
ATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTCTAAGGCCTTCTCCTACAGACAGTA
GACGGAAAGCACCAAGACCTCAAGTACATCTCACCAGAAACGATGGTGGCCCTATTGACGGGCAAGTTCAGCAAC
ATCGTGGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGGCGGGCACATCAAGACTGCGGTG
AACTTGCCCCCTGGAACGCGACGCCGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAGA
GTCATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCCGCATGTGCCGTTTCATCAGGGAACGAGAC
CGTGCTGTCAACGACTACCCAGCCTCTACTACCTGAGATGTATATCCTGAAAGGCGGCTACAAGGAGTTCTTC
CCTCAGCACCCGAACCTTCTGTGAACCCAGGACTACCGGCCCATGAACACGAGGCCTTCAAGGATGAGCTAAAG
ACCTTCCGCCTCAAGACTCGCAGCTGGGCTGGGGAGCGGAGCCGGCGGGAGCTCTGTAGCCGGCTGCAGGACCAG
TGAGGGGCTGCGCCAGTCTGCTACCTCCCTTGCCCTTCGAGGCCTGAAGCCAGCTGCCCTATGGGCCTGCCGG
GCTGAGGGCCTGCTGGAGGCCTCAGGTGCTGTCCATGGGAAAGATGGTGTGGTGTCTGCTGCTGCCCCAGCC
CAGATTCCCCTGTGTATCCCATCATTTTCCATATCCTGGTGGCCCCCACCCTGGAAGAGCCCAGTCTGTTGAG
TTAGTTAAGTTGGGTTAATACCAGCTTAAAGGCAGTATTTTGTGTCTCCAGGAGCTTCTGTTCCTTGTAGG
GTTAACCCCTTCATCTTCTGTGTCTGAAACGCTCCTTTGTGTGTGTGTGAGCTGAGGCTGGGGAGAGCCGTGGT
CCCTGAGGATGGGTGAGAGCTAAACTCCTTCCCTGGCCTGAGAGTCAGCTCTCTGCCCTGTGTACTTCCCGGGCCA
GGGCTGCCCCCTAATCTCTGTAGGAACCGTGGTATGTCTGCCATGTTGCCCTTTCTCTTTTCCCCTTCTCTGTCC
CACCATACGAGCACCTCCAGCCTGAACAGAGCTCTTACTCTTCTCTATTTTCAAGTGTACCTGTGTGCTTGGTCT
GTTTGACTTTACGCCCATCTCAGGACACTTCCGTAGACTGTTTAGGTTCCCCTGTCAAATATCAGTTACCCACTC
GGTCCAGTTTTTGTGGCCCCAGAAAGGATGTTATTATCCTTGGGGGCTCCCAGGGCAAGGGTTAAGGCCTGAAT
CATGAGCCTGCTGGAAGCCAGCCCCCTACTGCTGTGAACCTGGGGCCTGACTGCTCAGAACTTGCTGCTGTCTT
GTTGCGGATGGATGGAAGGTTGGATGGATGGGTGGATGGCCGTGGATGGCCGTGGATGCGCAGTGCCTTGCATAC
CCAAACCAGGTGGGAGCGTTTTGTGTGAGCATGACACCTGCAGCAGGAATATATGTGTGCCCTATTTGTGTGGACAA
AAATATTTACACTTAGGGTTTGGAGCTATTCAAGAGGAAATGTACAGAAGCAGCTAAACCAAGGACTGAGCACC
CTCTGGATTCTGAATCTCAAGATGGGGGCAGGGCTGTGCTTGAAGGCCCTGCTGAGTCATCTGTTAGGGCCTTGG
TTCAATAAAGCACTGAGCAAGTTGAGAAAAA

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FIGURE 270

MEVPQPEPAPGSALSPAGVCGGAQRPGHLPGLLLGSHGLLGSPVRAAASSPVTTLTQTMHDLAGLGSRSLTHLS
LSRRASESSLSESSESSDAGLCMDSPSPMDPHMAEQTFEQAIQAASRIIRNEQFAIRRFQSMFVRLLGHSPVLR
NITNSQAPDGRRKSEAGSGAASSSGEDKENVRFWKAGVGALREEEGACWGGSLACEDPPLPSWLQDGFVFKMPWK
PTHPSSSTHALAEWASRREAFQRPSSAPDLMCLSPDRKMEVEELSPLALGRFSLTPAEGDTEEDDGFVDILES
KDDDAVPPGMESLISAPLVKTLKKEEEKDLVMYSKCQRLFRSPSMPCSVIRPILKRLERPQDRDTPVQNKRRRSV
TPPEEQQEAEKARVLRSLCHDEIENLLSDHRELIGDYKAFLLQTVDGKHQDLKYISPETMVALLTGKFS
NIVDKFVIVDCRYPYEYEGGHIKTAVNLPLERDAESFLLKSPIAPCSLDKRVILIFHCEFSSESGPRMCRFIRER
DRAVNDYPSLYYPEMYILKGGYKEFFPQHNFCEPQDYRPMNHEAFKDELKTFRLKTRSWAGERSRRELCSRLQD
Q

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FIGURE 271

GAATTCCGCTAGACTAAGTTGGTCATGATGCAGAAGCTACTCAAATGCAGTCGGCTTGTCCTGGCTCTTGCCCTC
ATCCTGGTTCTGGAATCCTCAGTTCAAGGTTATCCTACGCAGAGAGCCAGGTACCAATGGGTGCGCTGCAATCCA
GACAGTAATTCTGCAAACCTGCCTTGAAGAAAAAGGACCAATGTTCGAACTACTTCCAGGTGAATCCAACAAGATC
CCCCGTCTGAGGACTGACCTTTTTCCAAAGACGAGAATCCAGGACTTGAATCGTATCTTCCCACTTTCTGAGGAC
TACTCTGGATCAGGCTTCGGCTCCGGCTCCGGCTCTGGATCAGGATCTGGGAGTGGCTTCCTAACGGAAATGGAA
CAGGATTACCAACTAGTAGACGAAAGTGATGCTTTCCATGACAACCTTAGGTCTCTTGACAGGAATCTGCCCTCA
GACAGCCAGGACTTGGGTCAACATGGATTAGAAGAGGATTTTATGTTATATAAGAGGATTTTCCACCTTGACAC
CAGGCAATGTAGTTAGCATATTTTATGTACCATGGTTATATGATTAATCTTGGGACAAAGAATTTTATAGAAATT
TTTAAACATCTGAAAAAGAAGCTTAAGTTTTATCATCCTTTTTTTCTCATGAATTCTTAAAGGATTATGCTTTA
ATGCTGTTATCTATCTTATTGTTCTTGAAAATACCTGCATTTTTTGGTATCATGTTCAACCAACATCATTATGAA
ATTAATTAGATTCCCATGGCCATAAAATGGCTTTAAAGAATATATATATATTTTTAAAGTAGCTTGAGAAGCAAA
TTGGCAGGTAATATTTTATACCTAAATTAAGACTCTGACTTGGATTGTGAATTATAATGATATGCCCCTTTTCTT
ATAAAAACAAAAAAAATAATGAAACACAGTGAATTTGTAGAGTGGGGTATTTGACATATTTTACAGGGTGGA
GTGTACTATATACTATTACCTTTGAATGTGTTGTCAGAGCTAGTGGATGTGTTTGTCTACAAGTATGATTGCTGT
TACATAACACCCCAAATTAACCTCCCAAATTAACACAGTTGTGCTGTCAATACCTCATACTGCTTTACCTTTTT
TTCTTGATATCTGTGTATTTTCAAATGTTACTATATATTAAAGCAGAAATATAACC

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FIGURE 272

MMQKLLKCSRLVLALALILVLESSVQGYPTQRARYQWRCNPDSNSANCLEEKGPMFELLPGESNKIPRLRTDLF
PKTRIQDLNRIFPLSEDYSGSGFGSGSGSGSGSGSGFLTEMEQDYQLVDESDAFHDNLRSLDRNLPSDSQDLGQH
GLEEDFML

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FIGURE 273

CCGGTCCTGAGACACGCTGTGTGGCTGAAAAGTGAAGGCAAGAGCTCATTGGCCTCTGTGCTCCCCCTCCGCAAG
GGATCGTTTCTCCAGAAGAGCTGGATATTCTTTTCGCCAGTTATGGCAGACAAAGTTAACGAGAATTGCTATTGTC
AACCATGACAAATGTAAACCTAAGAAATGTCGACAGGAATGCAAAAAGAGTTGTCTGTAGTTCTGAATGGGAAAA
TTATGCATAGAGGTTACACCCCAGAGCAAAATAGCATGGATTTCGAAACTCTTTGTATTGGTTGTGGTATCTGT
ATTAAGAAATGCCCTTTGGCGCCTTATCAATTGTCAATCTACCAAGCAACTTGGAAAAAGAAACCACACATCGA
TATTGTGCCAATGCCTTCAAACCTTCACAGGTTGCCTATCCCTCGTCCAGGTGAAGTTTTGGGATTAGTTGGAAC
AATGGTATTGGAAAGTCAGCTGCTTTAAAAATTTTAGCAGGAAAAACAAGCCAAACCTTGGAAAGTACGATGAT
CCTCCTGACTGGCAGGAGATTTTGAAGTATTTCCGTGGATCTGAATTACAAAATTACTTTACAAAGATTCTAGAA
GATGACCTAAAAGCCATCATCAAACCTCAATATGTAGCCAGATTCCTAAGGCTGGCAAAGGGGACAGTGGGATCT
ATTTTGGACCGAAAAGATGAAACAAAGACACAGGCAATTGTATGTCAGCAGCTTGATTTAACCCACCTAAAAGAA
CGAAATGTTGAAGATCTTTCAGGAGGAGAGTTGCAGAGATTGCTTGTGCTGTCGTTTGCATACAGAAAGCTGAT
ATTTTCAIGTTTTGATGAGCCTTCTAGTTACCTAGATGTCAAGCAGCGTTTAAAGGCTGCTATTACTATACGATCT
CTAATAAATCCAGATAGATATATCATTGTGGTGGACATGATCTAAGTGTATTAGACTATCTCTCCGACTTCATC
TGCTGTTTTATATGGTGTACCAAGCGCCTATGGAGTTGTCATATGCCCTTTTAGTGTAAGAGAAGGCATAAACATT
TTTTTGGATGGCTATGTTCCAACAGAAAACCTTGAGATTGAGAGATGCATCATTGTTTTTAAAGTGGCTGAGACA
GCAAATGAAGAAGAAGTTAAAAAGATGTGTATGTATAAATATCCAGGAATGAAGAAAAAATGGGAGAATTTGAG
CTAGCAATTGTAGCTGGAGAGTTTACAGATTCTGAAATTATGGTGTATGCTGGGGGAAAAATGGAACGGGTAAACG
ACATTTATCAGAATGCTTGTGGAAGACTTAAACCTGATGAAGGAGGAGAAGTACCAGTTCTAAATGTCAGTTAT
AAGCCACAGAAAATTAGTCCCAAATCAACTGGAAGTGTTCGCCAGTTACTACATGAAAAGATAAGAGATGCTTAT
ACTACCCACAATTTGTGACCGATGTAATGAAGCCTCTGCAAATTGAAAACATCATTGATCAAGAGGTGCAGACA
TTATCTGGTGGTGAACCTACAGCGAGTACGTTTACGCCCTTTGCTTGGGCAAACCTGCTGATGTCTATTTAATTGAT
GAACCATCTGCATATTTGGATTCTGAGCAAAGACTGATGGCAGCTCGAGTTGTCAAACGTTTCATACTCCATGCA
AAAAAGACAGCCTTTGTTGTGGAACATGACTTCATCATGGCCACCTATCTAGCGGATCGCGTCATCGTTTTTGAT
GGTGTTCATCTAAGAACACAGTTGCAAACAGTCTCAAACCCCTTTTGGCTGGCATGAATAAATTTTTGTCTCAG
CTTGAAATTACATTCAGAAGAGATCCAAACAACATATAGGCCACGAATAAACAACTTAATTCAATTAAGGATGTA
GAACAAAAGAAGAGTGGAACTACTTTTTCTTGGATGATTAGACTGACTCTGAGAATATTGATAAGCCATTTATT
AAAAGGAGTATTTACTAGAATTTTTTGTATATAAACTTGAATCAGGATTTTATGCCCCACATACTCTGGAAC
TGAAGTATAATACTTAATATAACATAAAAAGCCAGTTGGGTTCTAAATTGTAGTTGAAACACAGAAAATGCCA
CTTTCTGTTCCTGAAGAGGCTCTTTTGTGCATAATATTCTAAATGAAGACATTTCAAGCTATACAAATTACTT
CCAAGTTTTCATGATGTATGGGAAGATTTTCAAGTAGGTGATTATATTACGGTACCAAATGCTGACCAGTGTG
CTCCATTTTTTAAATCTTGAAGAGGTTTTCTGTACTTACCTGGTTTGCCAAGTATGCCAGTGTAAATGAAACTGCC
CTTATTTTTAAAGCCAGTCAAAGATTCCACTGATTGACATTTGATAAATAACATCAGGATTATGTTTTATTGTTT
GTTTTAGTCTTTGCACTATATTACCAGTATATGGTTTCGAGGAAGATTATCTACTGCAAACACCACTGTTGG
AAAAATAGGTATTTTTTAAATTGTTTTTAAATCCTTTTTTGGTGCCTTTTAAACATGTTTAAAGCAAAAACCAATTCAG
TCCATTCCCCGCAAAAAACCCCTAACTTTACTCTGAACCTTTTTTGTGTTTTGCATTCCATGAGGTTCTGTATTCA
GTCATTCTCTAGGTAATGTCATTTTTGTACACATATATTTATATAATCACTGATTGAGATTTAGGAAAAAGCATT
TCTAAAGAATATTTGCTTCCCTTAGAAGTACAGACTCGAAATCTTTAAAGATGGTGCCTAAGCATCTATGTATTT
TTTTTAAGTTCCACAGATTTTTCTGTTGGGCAGGCCAAGGATTATAAACCCTTCCCTAAAGGCAACATTAATGC
AAAAGTCCCCAGATGGCAATACAAAAGTATCCCCCTGGTACCACATATATTCATTTGTGAGTTTGGATATAGAGCAC
ATTATCTAAACCATTTTGTAGTTCCAAAAACCCATCTAAATTTCTTGAGTTTCTGAATTTTGAACAGGATTACCT
GGAGCCTGGAGCCACTTTAAGTTGTACTTCTGACTAACTGGAATTATGAGTGAGGAAGAGTGTCTACTAAATAA
AAGTCTTGATTAATATGCAATAATGGCTAGAAAGTATGGTTTAACTGGACCCTATTATGCCTTTTTAAAAATAAT
TTCAGTAACCCATAAATACATGTTGTAAAAAATTCAAATATACAGAATGGAATAAAAAAATGATCTCCCTTTATT
ACCCTCCCAAAGGTTACCAGCGTTTGAATTTAATAATGTATATTCTTTTCTGCTTTTTTCTGTGCACTTACCTAA
GTGTGAATATGTAAAGGTTTTGTTTTGTATACAAATGGGATTATACTAAAATAAGTAATGCCTATTTTTTAAGGAT
AGGTTAAATTTGTGAATGATCATTTCAAATATATTGAATAAAATAAGCAAAAGCTATTGTTATTACTGATCCTG
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 274

MAAKLTRIAIVNHDCKPKKCRQECKKSCPVVRMGKLCIEVTPQSKIAWISSETLCIGCGICIKKCPFGALSIVNL
PENLEKETTHRYCANAFKLHRLPIPRPGEVLGLVGTNGIGKSAALKILAGKQKPNLGKYDDPPDWQEILTYFRGS
ELQNYFTKILEDDLKAI IKPQYVARFLRLAKGTVGSILDRKDETKTQAIVCQQLDLTHLKERNVEDLSGGELQRF
ACAVVCIQKADIFMFDEPSSYLDVKQRLKAAITIRSLINPDYIIIVVEHDLSVLDYLSDFICCLYGVP SAYGVVT
/REGINIFLDGYVPTENLRFRDASLVFKVAETANEEVKKMCMYKYPGMKKMGFEFELAIVAGEFTDSEIM
NGTGKTTFIRMLAGRLKPDEGGEVPVLNVSYKPQKISPKSTGSRQLLHEKIRDAYTHPQFVTDVMKPLQ
EDQEVQTLSSGGELORVRLRLCLGKPADVYLIDEPSAYLDSEQRLMAARVVKRFILHAKKTAFVVEHDFIMA
AADRIVVFDGVPSKNTVANSPOILLAGMNKFLSQLEITFRDPNNYRPRINKLNSIKDVEQKKSGNYFFLDD

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FIGURE 275

CCGGAGGAGTCCGAGAGGAAGCGGAGGCGCGAGCTGGAGGCGGCGGCTCCCCTCGGCCTCCGGCAGGACTGAGCG
CTGGGAGGCCGGAAGGCGGGCGCGCACGGCGGAGAGGCGGGCGGGAGGCCGAGCATATTAATGAAAAGTGCCAT
AAACTGAAAAACCAAACATGAGGGTAGCAGGTGCTGCAAAGTTGGTGGTAGCTGTGGCAGTGTTTTTACTGACAT
TTTATGTTATTTCTCAAGTATTTGAAATAAAAAATGGATGCAAGTTTAGGAAATCTATTTGCAAGATCAGCATTGG
ACACAGCTGCACGTTCTACAAAGCCTCCCAGATATAAGTGTGGGATCTCAAAGCTTGCCCTGAGAAGCATTTTG
CTTTTAAAATGGCAAGTGGAGCAGCCAACGTGGTGGGACCCAAAATCTGCCTGGAAGATAATGTTTTAATGAGTG
GTGTTAAGAATAATGTTGGAAGAGGGATCAATGTTGCCCTGGCAAATGGAAAAACAGGAGAAGTATTAGACACTA
AATATTTTGACATGTGGGGAGGAGATGTGGCACCATTATTGAGTTTCTGAAGGCCATACAAGATGGAACAATAG
TTTTAATGGGAACATACGATGATGGAGCAACCAAATCAATGATGAGGCACGGCGGCTCATTGCTGATTTGGGGA
GCACATCTATTACTAATCTTGGTTTTAGAGACAACCTGGGTCTTCTGTGGTGGGAAGGGCATTAAAGACAAAAAGCC
CTTTTGAACAGCACATAAAGAACAATAAGGATACAAACAAATATGAAGGATGGCCTGAAGTTGTAGAAATGGAAG
GATGCATCCCCCAGAAGCAAGACTAATGGAAATGTGGAGAGAATTGAAGAAAGCGCACTTTCACCTCTAATGGGA
GAGCTATAAATGGCAGAGCTATGTGTAAATATTTAAGAGCATGCAGCCATCTTGGTGTGTGCATGAGTATTGTC
TCTTTTGATATCAGGATTATTTATTGCTAACGTAAATAGATAGCATTGTAAATAATCATCACAATGATCAAATCA
CTGAACCATGTCTCCGCACATTTCCCTAAAAGTACAATGTTTAGACTGCTATGGTAATACATATTTTAAATTCTA
AAAGCATACACAATGTGTAACTGAATGGTTTGTGAAAAATATATTGATATATATACTAGTTGCTATGAAAAATATC
ATGGAATAATAGGGATTTTAGGGTGGATACCTTTATTTCTTTTATGTTTCTATATGTTGCGTTGTGATGACATTA
TCTTTTAAATTAAAAAGAGATTTGGCTAGTTGTGTGTGTAATGTTACTTTACAGTCCGACTCTCCTGATGTACCT
CTTTTCATGATCTTTTCTTCTTCCCAAGAACTGAGGAATGTTTAAATATGAAAACATACATCGGATATGTGA
AAAGCACAACAAAATTCTTAATGTACACAGTAAAAAGTAAATATATAAATGTAGATGGCATTTAGGACCACAGC
TTGCTGGATTTGTGTTAGCTATGGGAATAACTTGATTTTGTATAAGCTATTTAGAGTGAGGCTGGAGGTGGCAGC
TTCACAGAACTGGAGAACCAGGCCAAGTCCCCTCCCCAACCTAATTAGGTCATTACAGGACAGCTAAGTCAGTATA
TTTAGAGCAATACTAGCATACGTTTTTCTTAATTGTTATCAGCATTGACCAAGTGGTTTGGGAAGGAGGCATGCTT
TAATATCACAATAATTTTGATTTGTAAACCAAGAAATTAATCCTGTGTTTATCTAACTTCATAATAGCAATTATT
GCCCCAAGCTATAGTGGCATATTTACAAAAGTTCTTATTACTGGGCGGACTGATAACATTTAAAAATAATTGTG
TTTGACCCCAAATGACTTTTATACCCAATTCTACATAAAAAATATAGAAGATCTATCTTTTTTTGTTACCTTCAGAT
GTTCACTAAATAACTCAGTTTTTAAAGCAGAAGTTTTAGGGCATTAAATATATGTTGTGTATGAAGTATCTCAA
CTGGAACATAAATTTAGTGATCAAACCTGCCATTACAGTGTAAGGCAGCACTTAAATTTTGAACCTAAAGTTTAG
ATGCATTGTATAAAAAAACCTAAAAGCAGTATCTGTTATTTAGCTGTAAACCAAGTTGGAAGCTATTTCGGATAAT
TTCTTAAATATTGATGAACCTTGGAGTACTGTTTCTTCTTCAAACCTGAATGTAATTAATTCATGAATAAATGCA
CCTTATATGTTTAAACAATCTTTGTATACTTTTGGGATTTTGGTGCTTATATGCTAAATCACATTCAGCATGTG
TATTTTGACATTTAAATACTTCCCTCAATTCTGTAAATTAAGAATAGTTATTTTACAGTTCAGGGATTGTG
AAATAAATGTTGCAGTTTTTTAAATAATGAAAATAAATACTCTTGGTTTTGCTTTGTGAAAAA

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FIGURE 276

MRVAGAAKLVAVAVFLLTFYVISQVFEIKMDASLGNLFARSALDTAARSTKPPRYKCGISKACPEKHFAFKMAS
GAANVVGPKICLEDNVLMMSGVKNNVGRGINVALANGKTGEVLDTKYFDMWGGDVAPFIEFLKAIQDGTIVLMGTY
DDGATKLNDEARRLIADLGSTSITNLGFRDNWVFCGGKGIKTKSPFEQHIKNNKDTNKYEGWPEVVEMEGCIPQK
QD

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FIGURE 277

TACTGACTTTCAGCACCAACTTGTGGTCCCAGGTAAGTTTCCACGCTGGTACTTTAGCCCTGGGCTCGAACCTGC
GGACACGCTGTGGCTGCAACTCCCCGCCCGCCAGACCTCAGTACGCAGCGCGGCTGGTGAGAAACATAATGCACT
CTGACTTCCACGCGTGGAATGGGGAGATGGACTGCACGGCGGGCGGACCTGCTCGGGCTGATGGACGGCAGGTGG
ACTGATGTGCGCAGGGACTGGCGGCAGCGCGGTGAGAGCCAGTCAGCCAAAGCCAGGCCAGCACAAATAGACTGTC
CCGGTTCCCGCCAGGAGGCGGCCGAGCACCAACTGTACGGTACTGCGCCTGCGCCGCGACCGCCAACGCGCCAG
TCTACGCTTGCGCGGCGCAACAGGGCCGACTGCAGCTGGAAGATGGCGGCGTCCGTGGTCTGTGCGGGCCGCTACC
GCCGGGGCACAAAGTGCTATTGCGCGCCCGCCGCTCGCCGGCCCTGCTGCGGACGCCAGCCTTGCGGAGTACGGCA
ACCTTCGCTCAGGCGCTCCAGTTCGTGCCGGAGACGCAGGTTAGCCTGCTGGACAACGGCCTGCGTGTGGCCTCC
GAGCAGTCCTCTCAGCCCACTTGACGGTGGGAGTGTGGATTGATGTTGGCAGCCGTTTTGAGACTGAGAAGAAT
AATGGGGCAGGCTACTTTTTGGAGCATCTGGCTTTCAAGGGAACAAAGAATCGGCCTGGCAGTGCCTTGGAGAAG
GAGGTGGAGAGCATGGGGGCCCATCTTAATGCCTACAGCACCCGGGAGCACACAGCTTACTACATCAAGGCGCTG
TCCAAGGATCTGCCGAAAGCTGTGGAGCTCCTGGGTGACATTGTGCAGAACTGTAGTCTGGAAGACTCACAGATT
GAGAAGGAACGTGATGTGATCCTGCGGGAGATGCAGGAGAATGATGCATCTATGCGAGATGTGGTCTTTAACTAC
CTGCATGCCACAGCATTCCAGGGCACACCTCTAGCCCAGGCTGTGGAGGGGGCCAGTGAGAATGTCAGGAAGCTG
TCTCGTGACAGCTTGACCGAGTACCTCAGCACACATTACAAGGCCCTCGAATGGTGCTGGCAGCAGCTGGAGGA
GTGGAGCACCAGCAACTGTTAGACCTCGCCCAGAAAGCACCTCGGTGGCATCCCATGGACATATGCAGAGGACGCT
GTGCCCACTCTTACTCCATGCCGCTTCACTGGCAGTGAGATCCGCCACCGTGATGATGCTCTACCTTTTGCCAC
GTGGCCATTGCAGTAGAGGGTCTTGCTGGGTGGGCCAGCCCGGACAGTGTGGCCTTGCAAGTGGCCAATGCCATCATC
GGCCACTATGACTGCACTTATGGTGGTGGCGTGACCTGTCCAGCCCCTGGCTTCAAGGTGCTGTGGCCAACAAG
CTATGCCAGAGTTTCCAGACCTTCAGCATCTGCTATGCAGAGACGGGCTTGCTGGGTGCACACTTTGTCTGTGAC
CGAATGAAAATCGATGACATGATGTTTCGTCTGCAAGGGCAGTGGATGCGCCTGTGTACAGTGCCACGGAGAGT
GAGGTGGCCCGGGGCAAAAACATCCTCAGAAATGCCCTGGTATCTCATCTAGATGGCACTACTCCTGTGTGTGAG
GACATCGGACGCAGCCTCCTGACCTATGGCCGCCGCATCCCCCTGGCTGAATGGGAAAGCCGGATTGCGGAGGTG
GATGCCAGTGTGGTACGTGAGATCTGCTCCAAGTACATCTATGACCAGTGCCAGCAGTGGCTGGATATGGCCCC
ATTGAGCAGCTCCAGACTACAACCGGATCCGTAGCGGCATGTTCTGGCTGCGCTTCTAGGCGGGGAAGCCTATGT
AAGCAAGAGGGCAGGGCCGGGTTTGTGGTCCCCCCCCACCACAAACACAGCACTTCGGCTCCTCTAACCTGTG
CCACAGGTGACCACCAATAAAATCCTCTGCTGAGA

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FIGURE 278

MAASVVCRAATAGAQVLLRARRSPALLRTPALRSTATFAQALQFVPETQVSLLDNGLRVASEQSSQPTCTVGWVI
DVGSRFETEKNNAGYFLEHLAFKGTKNRPGSALEKEVESMG AHLNAYSTREHTAYYIKALSKDLPKAVELLGDI
VQNCSEDSQIEKERDVILREMQENDASMRDVVFNYLHATAFQGTPLAQAVEGPSENVKLSRADLTEYLS THYK
APRMVLAAGGVEHQQLDLAQKHLGGIPWTYAEDAVPTLTPCRFTGSEIRHRDDALPFAHVAIAVEGPGWASPD
SVALQVANAIIGHYDCTYGGGVHLSSPLASGAVANKLCQSFQTF SICYAETGLLGAHFVCDRMKIDMMFVLQGG
WMRLCTSATESEVARGKNILRNALVSHLDGTTVPVEDIGRSLTTYGRRIP LAEWESRIAEVDASVVREICSKYIY
DQCPAVAGYGPIEQLPDYNRIRSGMFWLRF

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FIGURE 279

GCACACACACGAGGAGGAGGGTTGAGCTGCTGCCGCCGCCGCTCTGTCTGCTCGCGAGTGTGGAGTCGGGACTG
GAGCTGCTGCCGCGGCGACGCCGGGATCTTTGTCTGCTAGCTCCCGGCCCTTCTGCCCGCCGCCCTTCCCTCAGT
CAGCGTTGCCACTCTCTCCGGCCGGGCGCCCTGCCTCCATTTCTCGCTCTCTGTCCACCACACACACGGCCC
CCCCGATCATGGATCCGGGCAGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGCAGCAGCGGCAGCAGCA
GCAGCGACTCGGCGCCTGACTGCTGGGACCAGGCGGACATGGAAGCCCCGGGCGGGCCCCCTTGCGGCGGCGGCG
GCTTCCCTGGCGGCGGCGGCGGAGGCCAGCGGGAGAACCTCAGCGCGGCCCTTCAGCCGGCAACTCAACGTCAAC
GCCAAGCCCTTCGTGCCAACGTCCACGCCGCCGAGTTTCGTGCCGTCTTCTTCTGCCGGGCCCCGGCAGCGCCGCCA
CCCCCAGCTGGCGGCGCGGCCAATAACCACGGAGCCGGCAGCGGCGCGGGAGGCCGTGCGGCACCTGTGGAATCC
TCTCAAGAGGAACAGTCATTGTGTGAAGGTTCAAATTCAGCTGTTAGCATGGAACTTTCAGAACCTATTGTAGAA
AATGGAGAGACAGAAATGTCTCCAGAAGAATCATGGGAGCACAAAGAAATAAGTGAAGCAGAGCCAGGGGGT
GGTTCCTTGGGAGATGGAAGGCCGCCAGAGGAAAGTGCCCATGAAATGATGGAGGAGGAAGAGGAAATCCAAAA
CCTAAGTCTGTGGTTGCACCGCCAGGTGCTCCTAAGAAAAGAGCATGTAATGTAGTATTTCATTGGGCACGTAGAT
GCTGGCAAGTCAACCATTGGAGGACAAATAATGTATTTGACTGGAATGGTTGACAAAAGGACGCTTGAAAAGTAT
GAAAGAGAAGCTAAAGAGAAAAACAGAGAAACTTGGTACTTGTCTTGGGCCCTTAGACACAAATCAGGAAGAACGA
GACAAGGGTAAAACAGTAGAAGTGGGTGCTGCCTATTTTTGAAACCAGAAAAGAACATTTACAAATTCAGATGCC
CCTGGCCACAAGAGTTTTGTCCCAAATATGATTGGTGGTGCCTCTCAAGCTGATTGGCTGTGCTGGTAATCTCA
GCCAGGAAAGGAGAGTTTTGAAACTGGATTTGAAAAAGGAGGACAGACAAGAGAACATGCAATGTTGGCAAAGACA
GCAGGTGTAAAACACCTAATTGTGCTAATTAATAAGATGGATGATCCAACAGTAAATTGGAGCAATGAGAGATAT
GAAGAATGTAAGGAGAAACTAGTGCCATTTTTGAAAAAAGTTGGCTTCAATCCCCAAAAGGACATTCACTTTATG
CCCTGCTCAGGACTTACTGGAGCAAATCTCAAAGAGCAGTCGGATTTCTGTCTTGGTACATTGGATTACCGTTT
ATTCCATATCTGGATAATTTGCCGAACCTTCAATAGATCAGTTGATGGACCAATCAGGCTGCCAATTGTGGATAAG
TACAAGGATATGGGCACTGTGGTCTCTGGGAAAGCTGGAATCAGGATCTATTTGTAAAGGCCAGCAGCTTGTGATG
ATGCCAAACAAGCACAAACGTGGAAGTTCTTGGAAATACTTTCCGATGATGTAGAGACTGATACCGTAGCCCCAGGT
GAAACCTCAAATCAGACTGAAAGGAATTGAAGAAGAGGAGATTCTTCCAGGGTTTATACTTTGTGATCCTAAT
AATCTTTGTCAATTCTGGACGCACATTTGATGCCAGATAGTGATTATAGAGCACAAATCCATCATCTGCCAGGC
TATAATGCGGTGCTGCATATTCATACCTGTATTGAGGAGGTGGAATAACAGCCTTAATCTGCTTGGTAGACAAA
AAATCAGGAGAAAAAAGTAAGACCCGACCCCGTTTTTGTGAAACAAGATCAAGTATGCATTGCTCGCTTAAGGACA
GCAGGAACCATCTGCCTTGAGACCTTTAAAGACTTCCCTCAGATGGGTCGTTTACCTTAAGAGATGAGGGTAAG
ACCATTGCAATTGGAAAAGTTCTGAAACTGGTTCCAGAGAAAGACTAAGCATTTTCTTGATGACCCTGCACAATA
CTGTGAGGAAAATTGACTGCAGAAGCCTACTTCACACCGCCTTCTCTTATTTTCTGCCATTGATAAACCTCTCC
CCATATTTTGCAAAGAGGAAATTCACAGCAAAAGTCCACATTATGTCAGCTTTCTCATATTGAGAGCTCTGCTAT
GCCACTGTTGAATTTTTCCCAAGATTCTGTCCCTAGCCCTCACTTCAAACCTCTGCTTCCCTGGACAGATTTGGC
AATAGCTTTGTAAAGTGATGTGGACATAATTGCCCTACAATAATGAAACCTACAGGAATTTTTTTTATTTTTTCATTT
TCCCTTAGGCATATTTAGTATTTTTCCCCCAGGCCAGATCATTCTGTAGTGTGCGAGTGTGTGTGCACATGTTA
CAAAGGCAACTACCATGTTAATAAAATATTCAATTG

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FIGURE 280

MELSEPIVENGETEMSPEESWEHKEEISEAEPGGGSLGDGRPPEESAHEMEEEEEEIPKPKSVVAPPGAPKKEHV
N7VFIGHVDAGKSTIGGQIMYLTGMVDKRTLEKYEREAKEKNRETWYLSWALDTNQEERDKGKTVEVGRAYFETE
K&HFTILDAPGHKSFVPNMIGGASQADLAVLVISARKGEFETGFEEKGGQTREHAMLAKTAGVKHLIVLINKMDDP
TVNWSNERYEECKEKLVPFLKKVGFNPKKDIHFMPCSGLTGANLKEQSDFCPWYIGLPFIPYLDNLPNPNRSVDG
---IVDKYKDMGTIVVLGKLESGSICKGQQLVMPNKHNEVLGILSDDVETDTVAPGENLKIRLKGIEEEEIL
DPNNLCHSGRTFDAQIVIIEHKSIICPGYNAVLHIHTCIEEVEITALICLVDKKSGEKSKTRPRFVKQD
ARLRTAGTICLETFKDFPQMGRFTLRDEGKTIAIGKVLKLVPEKD

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FIGURE 281

GCGGCGCTCGCGCCAAGGGACGTGTTTCTGCGCTCGCGTGGTCAATGAGGCGCTGCCGCTGCTAGCCGCGACAAC
TCCGGACCACGGCCGCCACCGAAGGCTGCTTCTGCTGCCGCTACTGCTGTTCCCTGCTGCCGGCTGGAGCTGTGCA
GGGCTGGGAGACAGAGGAGAGGCCCCGGACTCGCGAAGAGGAGTGCCACTTCTACGCGGGTGGACAAGTGTACCC
GGGAGAGGCATCCCGGGTATCGGTGCGCCGACCACTCCCTGCACCTAAGCAAAGCGAAGATTTCCAAGCCAGCGCC
CTACTGGGAAGGAACAGCTGTGATCGATGGAGAATTTAAGGAGCTGAAGTTAACTGATTATCGTGGGAAATACTT
GGTTTTCTTCTTCTACCCACTTGATTTACATTTGTGTGTCCAACCTGAAATTATCGCTTTTGGCGACAGACTTGA
AGAATTCAGATCTATAAATACTGAAGTGGTAGCATGCTCTGTTGATTACAGTTTACCCATTTGGCCTGGATTAA
TACCCCTCGAAGACAAGGAGGACTTGGGCCAATAAGGATTCCACTTCTTTCAGATTTGACCCATCAGATCTCAAA
GGACTATGGTGTATACCTAGAGGACTCAGGCCACACTCTTAGAGGTCTCTTCATTATTGATGACAAAGGAATCCT
AAGACAAATTACTCTGAATGATCTTCCTGTGGGTAGATCAGTGGATGAGACACTACGTTTGGTTCAAGCATTCCA
GTACACTGACAAACACGGAGAAGTCTGCCCTGCTGGCTGGAAACCTGGTAGTGAAACAATAATCCAGATCCAGC
TGGAAAGCTGAAGTATTTGATAAACTGAATTGAGAAATACTTCTTCAAGTTATGATGCTTGAAAGTTCTCAATA
AAGTTCACGGTTTCATTACCA

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FIGURE 282

MEALPLLAATTPDHGRHRRLLLLPLLLFLLPAGAVQGWETEERPRTREEECHFYAGGQVYPGEASRVSVADHSLH
LSKAKISKAPYWEGTAVIDGEFKEKLTDIRGKYLVFFFYPLDFTFVCPTEIIAFGDRLEEFRSINTEVVACSV
DSQFTHLAWINTPRRQGLGPIRIPLLSDLTHQISKDYGVYLED SGHTLRGLFIIDDKGILRQITLNDLPVGRSV
DETLRLVQAFQYTDKHGEVCPAGWKPGSETIIPDPAGKLKYFDKLN

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FIGURE 283

GGAAAAAGCGACTTGTGGCGGTCGAGCGTGGCGCAGGCGAATCCTCGGCACTAAGCAAATATGGACCTCGCGGC
GGCAGCGGAGCCGGGCGCCGGCAGCCAGCACCTGGAGGTCCGCGACGAGGTGGCCGAGAAGTGCCAGAACTGTT
CCTGGACTTCTTGGAGGAGTTTCAGAGCAGCGATGGAGAAATTAAATACTTGCAATTAGCAGAGGAAC TGATTG
TCCTGAGAGAAACACATTGGTTGTGAGTTTTGTGGACCTGGAACAATTTAACCAGCAACTTTCCACCACCATTCA
AGAGGAGTTCTATAGAGTTTACCCTTACCTGTGTCGGGCCCTTGAAAACATTTCGTCAAAGACCGTAAAGAGATCCC
TCTTGCCAAGGATTTTTATGTTGCATTCCAAGACCTGCCTACCAGACACAAGATTTCGAGAGCTCACCTCATCCAG
AATTGGTTTGTCTCACTCGCATCAGTGGGCAGGTGGTGGGACTCACCCAGTTCACCCAGAGCTTGTGAGCGGAAC
TTTTCTGTGCTTGGACTGTCAGACAGTGATCAGGGATGTAGAACAGCAGTTCAAATACACACAGCCAAACATCTG
CCGAAATCCAGTTTGTGCCAACAGGAGGAGATTCTTACTGGATACAAATAAATCAAGATTTGTTGATTTTCAAAA
GGTTCGTATTCAAGAGACCCAAGCTGAGCTTCCTCGAGGGAGTATCCCCCGCAGTTTAGAAGTAATTTTAAGGGC
TGAAGCTGTGGAATCAGCTCAAGCTGGTGACAAGTGTGACTTTACAGGGACACTGATTGTTGTGCCTGACGTCTC
CAAGCTTAGCACACCAGGAGCACGTGCAGAACTAATTCCCGTGTCTAGTGGTGTGATGGATATGAGACAGAAGG
CATTGAGGACTCCGGGCCCTTGGTGTTAGGGACCTTTCTTATAGGCTGGTCTTTCTTGCCTGCTGTGTTGCGCC
AACCAACCCAAGTTTTGGGGGGAAAGAGCTCAGAGATGAGGAACAGACAGCTGAGAGCATTAAAGAACCAATGAC
TGTGAAAGAATGGGAGAAAGTGTTGAGATGAGTCAAGATAAAATCTATACCACAATCTTGTACCAGCCTGTT
CCCTACTATACATGGCAATGATGAAGTAAACGGGGTGTCCTGCTGATGCTCTTTGGTGGCGTTCCAAAGACAAC
AGGAGAAGGGACCTCTCTTCGAGGGGACATAAATGTTTGCATTGTTGGTGACCCAAGTACAGCTAAGAGCCAATT
TCTCAAGCACGTGGAGGAGTTCAGCCCCAGAGCTGTCTACACAGTGGTAAAGCGTCCAGTGTCTGCTGGCTTAAC
AGCAGCTGTTGTGAGAGATGAAGAATCTCATGAGTTTGTCTATTGAGGCTGGAGCTTTGATGTTGGCTGATAATGG
TGTGTGTTGTATTGATGAATTTGATAAGATGGACGTGCGGGATCAAGTTGCTATTTCATGAAGCTATGGAACAGCA
GACCATATCCATCACTAAAGCAGGAGTGAAGGCTACTCTGAACGCCCCGACGTCCATTTTGGCAGCAGCAAACCC
AATCAGTGGACACTATGACAGATCAAATCATTGAAACAGAATATAAATTTGTCAGCTCCCATCATGTCCCGATT
CGATCTCTTCTTTATCCTTGTGGATGAATGTAATGAGGTTACAGATTATGCCATTGCCAGGCGCATAGTAGATTT
GCATTCAAGAATTGAGGAATCAATTGATCGTGTCTATTCCCTCGATGATATCAGAAGATATCTTCTCTTTGCAAG
ACAGTTTAAACCAAGATTTCCAAAGAGTCAGAGGACTTCATTGTGGAGCAATATAAACATCTCCGCCAGAGAGA
TGGTCTCGGAGTGACCAAGTCTTCATGGAGGATTACAGTGCACAGCTTGAGAGCATGATTTCGTCTCTCTGAAGC
TATGGCTCGGATGCACTGCTGTGATGAGGTCCAACCTAAACATGTGAAGGAAGCTTTCCGGTTACTGAATAAATC
AATCATCCGTGTGGAACACCTGATGTCAATCTAGATCAAGAGGAAGAGATCCAGATGGAGGTAGATGAGGGTGC
TGGTGGCATCAATGGTCATGCTGACAGCCCTGCTCCTGTGAACGGGATCAATGGCTACAATGAAGACATAAATCA
AGAGTCTGCTCCCAAAGCCTCCTTAAGGCTGGGCTTCTCTGAGTACTGCCGAATCTCTAACCTTATTGTGCTTCA
CCTCAGAAAGGTGGAAGAAGAAGAGGACGAGTCAGCATTAAAGAGGAGCGAGCTTGTTAACTGGTACTTGAAGGA
AATCGAATCAGAGATAGACTCTGAAGAAGAACTTATAAATAAAAAAAGAATCATAGAGAAAGTTATTCATCGACT
CACACACTATGATCATGTTCTAATTGAGCTCACCCAGGCTGGATTGAAAGGCTCCACAGAGGGAAGTGAGAGCTA
TGAAGAAGATCCCTACTTGGTAGTTAACCCTAACTACTTGCTCGAAGATTGAGATAGTGAAAGTAAGTACCAGA
GCTGAGGAAGTGTGGCACAGCACCTCGTGGCCTGGAGCCTGGCTGGAGCTCTGCTAGGGACAGAAGTGTCTG
AAGTGATGCTTCCAGGATTTGTTTTTCAGAAACAAGAATTGAGTTGATGGTCCTATGTGTACATTATCACAGGT
TTCATACCAACACAGGCTTCAGCACTTCCTTTGGTGTGTTTCTGTCCAGTGAAGTTGGAACCAATAATGTGT
AGTCTCTATAACCAATACCTTTGTTTTTCATGTGTAAGAAAAGGCCATTACTTTTAAGGTATGTGCTGCTCTATT
GAGCAAATAACTTTTTTTCAATTGCCAGCTACTGCTTTTATTCATCAAATAAAATAAAGTGTCTG

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FIGURE 284

MDLAAAAEPGAGSQHLEVRDEVAEKCQKLFDFLEEFQSSDGEIKYLQLAEELIRPERNTLVVSFVDLEQFNQQL
STTIQEEFYRVYPYLCRALKTFVKDRKEIPLAKDFYVAFQDLPTRHKIRELTSSRIGLLTRISGQVVRTHPVHPE
LVSGTFLCLDCQTVIRDVEQQFKYTQPNICRNPVCANRRRFLDNTKSRFVDFQKVRIQETQAELPRGSIPRSLE
VILRAEAVESAQAGDKCDFGTGLIVVPDVSKLSTPGARAETNSRVSGVDGYETEGIRGLRALGVRDLSYRLVFLA
CCVAPTNPFRGGKELRDEEQTAESIKNQMTVKEWEKVFEMSQDKNLYHNLCTSLFPTIHGNDEVKRGVLLMLFGG
VPKTTGEGTSLRGDINVCIVGDPSTAKSQFLKHVEEFSPRAVYTSGKASSAAGLTAAVVRDEESHEFVIEAGALM
LADNGVCCIDEFDKMDVRDQVAIHEAMEQQTISITKAGVKATLNARTSILAAANPISGHYDRSKSLKQNINLSAP
IMSRFDLFFILVDECNEVTDYAIARRIVDLHSRIEESIDRVYSLDDIRRYLLFARQFKPKISKESEDFIVEQYKH
LRQRDGGSGVTKSSWRITVRQLES MIRLSEAMARMHCCDEVQPKHVKEAFRLLNKSIIRVETPDVNLDQEEEIQME
VDEGAGGINGHADSPAPVNGINGYNEDINQESAPKASRLRGFSEYCRISNLIVLHLRKVEEEEDESALKRSELVN
WYLKEIESEIDSEEELINKKRIIEKVIHRLTHYDHVLIELTQAGLKGSTEGSESYEEDPYLVVNPNYLLED

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FIGURE 285

GCCCCACCATCAAGGGGAAGAAAGTGCTCTTCGGATTCCGGTTCGCCCTGGCCTCCCGCAGCCGCCGCGGGACC
GGCCCCCAGCACACCCCCGGGGCGCCGGGCGCGGGGCAGCCGCCCGGACGCGCGCGGGCCTCAGGCGCCGCGGG
ACCCCAGCCCCCAAACTTTGGCAAGTTGCGGGCGCCGAGCGCACCCGGAGGCGCGGGGCGCGGCCGAGGCGGA
GCCGCCCCCTGACGCCGGGCGCCCCCTCCCGGCCCCGCGCGCCCCGCGCTCCGCGGAAAGTTTGCGGCCGCC
CCTGCGCCGCACCCGGGGCCTGGGTGAGACTGCGGCGGCGGCAGGGCGCGGACGGCCATATTTGCCGGCGCGGCC
CGAGCCGCCGACAACAAAAAGTGCGCGGGCGCTCGGCGGGCGCTCGGACGGGCGCGGGGCTGCAGCGCTACCGCC
CGGCCTCGCCGCCGCCGCCGCCCTCGCGGCCTGGCCCCGCCGCGCCCGCGCGCCCGCGGGGGGATG

TCTTACAAACCGAACTTGGCCGCGCACATGCCCGCCGCCGCCCTCAACGCCGCTGGGAGTGTCCTCGCCTTCC
ACCAGCATGGCAACGTCTTCACAGTACCGCCAGCTGCTCAGTGACTACGGGCCACCGTCCCTAGGCTACACCCAG
GGAAGTGGGAACAGCCAGGTGCCCCAAAGCAAATACGCGGAGCTGCTGGCCATCATTGAAGAGCTGGGGAAGGAG
ATCAGACCCACGTACGCAGGGAGCAAGAGTGCCATGGAGAGGCTGAAGCGCGGCATCATTACGCTAGAGGACTG
GTTGCGGAGTGCTTGGCAGAAACGGAACGGAATGCCAGATCCTAGCTGCCTTGTTGGTTTTGAAGGATTTCCATC
TTTTTACAAGATGAGAAGTTACAGTTCATCTCCCCTGTTTCAAGATGAAACCCTTGTTTTCAAATGGTTACAGTTT
CGTTTTTCTCCCATGGTTCACTTGGCTCTGAACCTACAGTCTCAAAGATTGAGAAAAGATTTGCAGTTAATTA
GGATTTGCATTTTAAGTAGTTAGGAACTGCCCAGGTTTTTTTTTGTTTTTAAAGCATTGATTTAAAAGATGCACGG
AAAGTTATCTTACAGCAAACCTGTAGTTTGCCTCCAAGACACCATTGTCTCCCTTTAATCTTCTCTTTGTATACA
TTTGTTACCCATGGTGTTCTTTGTTCTTTTATAAGCTAATACCACTGTAGGGATTTTGTTTTGAACGCATATT
GACAGCACGCTTTACTTAGTAGCCGTTCCCATTTGCCATACAATGTAGGTTCTGCTTAATGTAACCTCTTTTTT
GCTTAAGCATTGTGATGACTATTAGTGCTTCAAAGTCAATTTTTTAAAAATGCACAAGTTATAAATACAGAAGAAA
GAGCAACCCACCAAACCTAACAAGGACCCCGAACACTTTTATACTAAGACTGTAAGTAGATCTCAGTTCTGCGT
TTATTGTAAGTTGATAAAAACATCTGGAAGAAAATGACTAAACTGTTTGCATCTTTGTATGATTTATTACTTG
ATGTAATAAAGCTTATTTTCATTAACAATTTGTATTAAAAA

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FIGURE 286

MSYKPNLAAHMPAAALNAAGSVHSPSTSMATSSQYRQLSDYGPPSLGYTQGTGNSQVPQSKYAELLAIIEELGK
E.RPTYAGSKSAMERLKRGIHARGLVRECLAETERNARS

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FIGURE 287A

GCGGGGAAGCAGCAGCGGCCAGGATGAATCCCAGGTGCTCTGGAGCTGGATGGTGAAGGTCGGCACTCTTCACCC
TCCCGAGCCCTGCCCCGTCTCGGCCCCATGCCCCACCAAGTCAGCCCCGGGCCACAGGCAGTGAGCAGGCACCTGG
GAGCCGAGGCCCTGTGACCAGGCCAAGGAGACGGGCGCTCCAGGGTCCCAGCCACCTGTCCCCCCCATGGAGCTG
AGGCCCTGGTTGCTATGGGTGGTAGCAGCAACAGGAACCTTGGTCTGCTAGCAGCTGATGCTCAGGGCCAGAAG
GTCTTCACCAACACGTGGGCTGTGCGCATCCCTGGAGGCCAGCGGTGGCCAACAGTGTGGCAGCGAAGCATGGG
TTCCTCAACCTGGGCCAGATCTTCGGGGACTATTACCATTCTGGCATCGAGGAGTGACGAAGCGGTCCCTGTCTG
CCTCACCGCCCCGCGGCACAGCCGGCTGCAGAGGGAGCCTCAAGTACAGTGGCTGGAACAGCAGGTGGCAAAGCGA
CGGACTAAACGGGACGTGTACCAGGAGCCCACAGACCCCAAGTTTCTCAGCAGTGGTACCTGTCTGGTGTCACT
CAGCGGGACCTGAATGTGAAGGCGGCCTGGGCGCAGGGCTACACAGGGCAGGCATTGTGGTCTCCATTCTGGAC
GATGGCATCGAGAAGAACCACCGGACTTGGCAGGCAATTATGATCCTGGGGCCAGTTTTGATGTCAATGACCAG
GACCTTGACCCCCAGCCTCGGTACACACAGATGAATGACAACAGGCACGGCACACGGTGTGCGGGGAAGTGGCT
GCGGTGGCCAACAACGGTGTCTGTGGTGTAGGTGTGGCCTACAACGCCCGCATTGGAGGGGTGCGCATGCTGGAT
GGCGAGGTGACAGATGCAAGTGGAGGCACGCTCGCTGGGCCTGAACCCCAACCACATCCACATCTACAGTGCCAGC
TGGGGCCCCGAGGATGACGGCAAGACAGTGGATGGGCCAGCCCGCTCGCCGAGGAGGCCTTCTTCCGTGGGGTT
AGCCAGGGCCGAGGGGGGCTGGGCTCCATCTTTGTCTGGGCCTCGGGGAACGGGGGCCGGGAACATGACAGCTGC
AACTGCGACGGCTACACCAACAGTATCTACACGCTGTCCATCAGCAGCGCCACGCAGTTTGGCAACGTGCCGTGG
TACAGCGAGGCCTGCTCGTCCACACTGGCCACGACCTACAGCAGTGGCAACCAGAATGAGAAGCAGATCGTGACG
ACTGACTTGCGGCAGAAAGTGACCGGAGTCTCACACGGGCACCTCAGCCTCTGCCCCCTTAGCAGCCGGCATCATT
GCTCTCACCTGGAGGCCAATAAGAACCTCACATGGCGGGACATGCAACACCTGGTGGTACAGACCTCGAAGCCA
GCCACCTCAATGCCAACGACTGGGCCACCAATGGTGTGGGCGGAAAGTGAGCCACTCATATGGCTACGGGCTT
TTGGACGCAGGCGCCATGGTGGCCCTGGCCCAAGATTGGACCACAGTGGCCCCCAGCGGAAGTGATCATCGAC
ATCCTCACCGAGCCCAAGACATCGGGAAACGGCTCGAGGTGCGGAAGACCGTGACCGCGTGCCTGGGCGAGCCC
AACCACATCACTCGGCTGGAGCACGCTCAGGCGCGGCTCACCTGTCTTATAATCGCCGTGGCGACCTGGCCATC
CACCTGGTCAGCCCCATGGGCACCGCTCCACCCTGCTGGCAGCCAGGCCACATGACTACTCCGCAGATGGGTTT
AATGACTGGGCCTTCATGACAACTCATTCTGGGATGAGGATCCCTCTGGCGAGTGGGTCTAGAGATTGAAAAC
ACCAGCGAAGCCAACAACCTATGGGACGCTGACCAAGTTTACCCTCGTACTCTATGGCACCGCCCCCTGAGGGGCTG
CCCGTACCTCCAGAAAGCAGTGGCTGCAAGACCCTCACGTCCAGTCAGGCCTGTGTGGTGTGCGAGGAAGGCTTC
TCCCTGCACCAGAAGAGCTGTGTCCAGCACTGCCCTCCAGGGTTGCCCCCAAGTCTCGATACGCACTATAGC
ACCGAGAATGACGTGGAGACCATCCGGGCCAGCGTCTGCGCCCCCTGCCACGCCTCATGTGCCACATGCCAGGGG
CCGGCCCTGACAGACTGCCTCAGCTGCCCCAGCCACGCCTCCTTGGACCCCTGTGGAGCAGACTTGCTCCCGGCAA
AGCCAGAGCAGCCGAGAGTCCCGGCCACAGCAGCAGCCACCTCGGCTGCCCCCGAGGTGGAGGCGGGGCAACGG
CTGCGGGCAGGGCTGCTGCCCTCACACCTGCCTGAGGTGGTGGCCGGCTCAGCTGCGCCTTCATCGTGTGGTCT
TTCGTCACTGTCTTCTGGTCTGTCAGCTGCGCTCTGGCTTTAGTTTTCGGGGGGTGAAGGTGTACACCATGGAC
CGTGGCCTCATCTCTACAAGGGGCTGCCCCCTGAAGCCTGGCAGGAGGAGTGCCCGTCTGACTCAGAAGAGGAC
GAGGGCCGGGGCGAGAGGACCGCCTTTATCAAAGACCAGAGCGCCCTCTGATGAGCCCACTGCCCCCCCCCTCAA
GCCAATCCCCCTCCTTGGGCACTTTTTAATTCACCAAAGTATTTTTTATCTTGGGACTGGGTTTGGACCCAGCT
GGGAGGCAAGAGGGGTGGAGACTGCTTCCCATCCTACCCTCGGGCCACCTGGCCACCTGAGGTGGGCCCAAGGAC
CAGCTGGGGCGTGGGGAGGGCCGTACCCACCCCTCAGCACCCCTTCCATGTGGAGAAAGGAGTGAAACCTTTAGG
GCAGCTTGCCCCGGCCCCGGCCCCAGCCAGAGTTCTTGGGAGTGAAGAGGGGCAGCCCTTGCTTGTGGGATTCT
CTGACCCAGGCCGAGCTCTTGCCCTTCCCTGTCCCTCTAAAGCAATAATGGTCCCATCCAGGCAGTCGGGGGCT
GGCCTAGGAGATATCTGAGGGAGGAGGCCACCTCTCCAAGGGCTTCTGCACCCTCCACCCTGTCCCCAGCTCTG
GTGAGTCTTGGCGGCAGCAGCCATCATAGGAAGGGACCAAGGCAAGGCAGGTGCCTCCAGGTGTGCACGTGGCAT
GTGGCCTGTGGCCTGTGTCCCATGACCCACCCCTGTGCTCCGTGCCTCCACCACCACTGGCCACCAGGCTGGCGC
AGCCAAGGCCGAAGCTCTGGCTGAACCCCTGTGCTGGTGTCTGACCACCTCCCCTCTCTTGACCCGCTCTCC
CGTCAGGGCCCAAGTCCCTGTTTTCTGAGCCCGGGCTGCTGGGCTGTTGGCACTCACAGACCTGGAGCCCTGG
GTGGGTGGTGGGGAGGGGCGCTGGCCAGCCGGCCTCTCTGGCCTCCACCCGATGCTGCTTTCCCTGTGGGGA
TCTCAGGGGCTGTTTGAGGATATATTTTCACTTTGTGATTATTTCACTTTAGATGCTGATGATTTGTTTTGTAT
TTTTAATGGGGGTAGCAGCTGGACTACCCACGTTCTCACACCCACCGTCCGCCCTGCTCCTCCCTGGCTGCCCTG

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FIGURE 287B

GCCCTGAGGTGTGGGGGCTGCAGCATGTTGCTGAGGAGTGAGGAATAGTTGAGCCCCAAGTCCTGAAGAGGCGGG
CCAGCCAGGCGGGGCTCAAGGAAAGGGGGTCCCAGTGGGAGGGGCAGGCTGACATCTGTGTTTCAAGTGGGGCTCG
CCATGCCGGGGGTTCATAGGTCACTGGCTCTCCAAGTGCCAGAGGTGGGCAGGTGGTGGCACTGAGCCCCCCAA
CACTGTGCCCTGGTGGAGAAAGCACTGACCTGTCATGCCCCCTCAAACCTCCTCTTCTGACGTGCCTTTTGCAC
CCCTCCCATTAGGACAATCAGTCCCCCTCCCATCTGGGAGTCCCCTTTTCTTTTCTACCCTAGCCATTCTGGTAC
CCAGCCATCTGCCAGGGGTGCCCCCTCCTCTCCCATCCCCCTGCCCTCGTGGCCAGCCGGCTGGTTTTGTAAG
ATGCTGGGTGGTGCACAGTGATTTTTTCTTGTAATTTAAACAGGCCAGCATTGCTGGTTCTATTTAATGGAC
ATGAGATAATGTTAGAGGTTTTAAAGTGATTAAACGTGCAGACTATGCAAACCAG

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FIGURE 288

MELRPWLLWVVAATGTLVLLAADAQGQKVFINTWAVRIPGGPAVANSVARKHGFLNLGQIFGDYYHFWHRGVTKR
SLSPHRPRHSRLQREPQVQWLEQQVAKRRTKRDVYQEPTDPKFPQQWYLSGVTQRDLNVKAAWAQGYTGHGIVVS
ILDDGIEKNHPDLAGNYDPGASFDVNDQDPDPQPRYTQMNDNRHGTRCAGEVAAVANNGVCGVGVAYNARIGGVR
MLDGEVTDAVEARSLGLNPNHIHIYSASWGPEDDGKTVDGPARLAEEAFFRGVSQGRGGLGSIFVWASGNGGREH
DSCNCDGYTNSIYTLSSISSATQFGNVPWYSEACSSTLATTYSSGNQNEKQIVTTDLRQKCTESHTGTSASAPLAA
GIIALTLEANKNLTWRDMQHLVVQTSKPAHLNANDWATNGVGRKVSHSYGYGLLDAGAMVALAQNWTTVAPQRKC
IIDILTEPKDIGKRLEVRKTVTACLGEPNHITRLEHAQARLTLSYNRRGDLAIHLVSPMGTRSTLLAARPHDYSA
DGFNDWAFMTTHSWDEDPSEGEVLEIENTSEANNYGTLTKEFTLVLYGTAPGLPVPPESSGCKTLTSSQACVVCE
EGFSLHQKSCVQHCPPPGFAPQVLDTHYSTENDVETIRASVCAPCHASCATCQGPALTDCLSCPSHASLDPVEQTC
SRQSQSSRESPPQQPPRLPPEVEAGQRLRAGLLPSHLPEVVAGLSCAFIVLVFVTVFLVLQLRSGFSFRGVKVY
TMDRGLISYKGLPPEAWQEPCPSDSEEDGRGERTAFIKDQSAL

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FIGURE 289

CTGGTCCCGAGCACGAGCTGTGAGGGGATTCACTTGTGTGCGGAACCTCCTCGGAACCATGCGTCCCTTTCCCTT
GCACCTGTTAACATCTTTAAGGCAGGAGCTGATGAAGAGAGAGCAGAGACAGCTCGTCTGACTTCTTTTATTGGT
GCCATCGCCATTGGAGACTTGGTAAAGAGCACCTTGGGACCCAAAGGCATGGACAAAATTCTTCTAAGCAGTGGA
CGAGATGCCTCTCTTATGGTAACCAATGATGGTGCCACTATTCTAAAAAACATTGGTGTTGACAATCCAGCAGCT
AAAGTTTTAGTTGATATGTCAAGGGTTCAAGATGATGAAGTTGGTGATGGCACTACCTCTGTTACCGTTTTAGCA
GCAGAATTATTAAGGGAAGCAGAATCTTTAATTGCAAAAAAGATTTCATCCACAGACCATCATAGCGGGTTGGAGA
GAAGCCACGAAGGCTGCAAGAGAGGCGCTGTTGAGTTCTGCAGTTGATCATGGTTCGGATGAAGTTAAATTCCGT
CAAGATTTAATGAATATTGCGGGCACAACTTATCCTCAAACTTCTTACTCATCACAAGACCACCTTTACAAAG
TTAGCTGTAGAAGCAGTTCTCAGACTGAAAGGCTCTGGCAACCTGGAGGCAATTCATATTATCAAGAAGCTAGGA
GGAAGTTTGGCAGATTCCCTATTTAGATGAAGGCTTCCTGTTGGATAAAAAAATTGGAGTAAATCAACCAAAACGA
ATTGAAAATGCTAAAATTCTTATTGCAAACTACTGGTATGGATACAGACAAAATAAAGATATTTGGTTCCCGGGTA
AGAGTTGACTCTACAGCAAAGGTTGCAGAAATAGAACATGCGGAAAAGGAAAAAATGAAGGAGAAAGTTGAACGT
ATTCTTAAGCATGGAATAAATTGCTTTATTAACAGGCAATTAATTTATAATTATCCTGAACAGCTCTTTGGTGCT
GCTGGTGTCATGGCTATTGAGCATGCAGATTTTGCAAGGTGTGGAACGCCTAGCTCTTGTCACAGGTGGTGAAATT
GCCTCTACCTTTTGATCACCCAGAACTGGTGAAGCTTGGAAGTTGCAAACCTTATCGAGGAAGTCATGATTGGAGAA
GACAAACTCATTACATTTTTCTGGGGTTGCCCTTGGTGAGGCTTGTACCATTGTTTTGCGTGGTGCCACTCAACAA
ATTTTAGATGAAGCAGAAAGATCATTGCATGATGCTCTTTGTGTTCTTGCGCAAACCTGTAAAGGACTCTAGAACA
GTTTTATGGAGGAGGCTGTTCTGAGATGTTGATGGCTCATGCTGTGACACAGCTTGCCAATAGAACACCAGGCAAA
GAAGCTGTTGCAATGGAGTCTTATGCTAAAGCACTGAGAATGTTGCCAACCATCATAGCTGACAATGCAGGCTAT
GACAGTGCAGACCTGGTGGCACAGCTCAGGGCTGCTCACAGTGAAGGCAATACCACTGCTGGATTGGATATGAGG
GAAGGCACCATTTGGAGATATGGCTATCCTGGGTATAACAGAAAGTTTTCAAGTGAAGCGACAGGTTCTTCTGAGT
GCAGCTGAAGCAGCAGAGGTGATTCTGCGTGTGGACAACATCATCAAAGCGGCACCCAGGAAACGTGTCCCTGAT
CACCACCCCTGTAAAGCATTCCACGTGCTGTGATCTTTGGACCAGTTTCTAGCAAAAGTTGTGTTTGAAGATA
CTCTATTAAAGAAGACTGTGGAATCTGTTTATCGGTGCCATTATATCCTTAAGTTTGGATATTTAGCTGACCTT
CGCTTTAACATAGGTCTAATTTATTTGCCGTGTCATTTTCCATACAAATCAGTTGATTTAAAGGAGTTCATTTTCG
CATACTGGGCATTAAAAATAAAATTTGAACAATGAAAGGAAAAAAGGAGAAAAA

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FIGURE 290

MASLSLAPVNIFKAGADEERAETARLTSFIGAIAIGDLVKSTLGPKGMDKILLSSGRDASLMVTNDGATILKNIG
VDNPAAKVLVDMSRVQDDEVGDGTTSTVTLAAELLREAESLIAKKIHPQTIIAGWREATKAAREALLSSAVDHGS
DEVKFRQDLMNIAGTTLSSKLLTHHKDHFTKLAVEAVLRLKGSGNLEAIHIIKKLGGSLADSYLDEGFLLDKKIG
VNQPKRIENAKILIAN TGMDTDKIKIFGSRVRVDSTAKVAEIEHAEKEKMKEKVERILKHGINCFINRQLIYNYP
EQLF GAAGVMAIEHADFAGVERLALVTGGEIASTFDHPPELVKLGSCKLIEEVMIGEDKLIHFSGVALGEACTIVL
RGATQQILDEAERSLHDALCVLAQTVKDSRTVYGGGCSEMLMAHAVTQLANRTPGKEAVAMESYAKALRMLPTII
ADNAGYDSADLVAQLRAAHSEGNTTAGLDMREGTIGDMAILGITESFQVKRQVLLSAAEAAEVILRVDNIIKAAP
RKRVPDHHPC

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FIGURE 291

GCCTGAGTGAGTCTCTGGCGTCCCAAATTGCCTGTTTTTCTCGCAGGCTCTATTCCGTTTCGCTGGTTCGCCACCT
CAGGGGAACGATGGCCATGGAGTCCACAGCCACTGCCGCCGTCGCCGCGGACGTGGTTTCTGCCGACAAAATTGA
AGATGTCCCTGCTCCTTCTACATCTGCAGATAAAGTGGAGAGTCTGGATGTGGATAGTGAAGCTAAGAACTATT
GGGTTTAGGACAGAAACATCTGGTGATGGGGATATTCCAGCAGCTGTCAATGCATTCCAGGAAGCAGCTAGTCT
CTAAGAAGTATGGAGAGACAGCTAATGAGTGTGGAGAAGCCTTCTTTTTCTATGGGAAATCACTTCTGGA
TAAGAATGGAGAATGGTGTGTTGGGAAACGCCTTGAAGGTGTGCATGTGGAAGAGGAAGAAGGAGAAAA
TAAGATGAATCTCTGGTAGAAAATAATGATAACATAGATGAGGAAGCAAGGGAAGAGTTGAGAGAACAGGT
TATGACGCCATGGGAGAAAAAGAAGCCAAAAAACAGAAGACAAGTCTTTGGCAAAGCCTGAACTGATAA
TAGGACAGTGAATGGAGAAGGGTGAAGAGAAGATATGGATATAAGTAAATCTGCAGAGGAGCCACAGGA
TTGACTTGACTCTAGATTGGTTAACTGAAACCTCTGAAGAGGCAAAAGGAGGAGCAGCACCAGAAGGACC
TAAGCTGAGGTCACTTCTGGGAAGCCAGAACAGGAAGTACCAGATGCTGAGGAAGAAAAATCAGTTTCTGG
GATGTCCAAGAAGAGTGCAGAGAAAAAGGAGGTGAGGAGAAGCAGGGAGAGGTAATTGTGAGCATAGAGGA
TCCAAAAGAAGTTTCAGAAGAGCAGCCTGTGGTGACTCTAGAAAAGCAGGGCACTGCAGTGGAGGTAGAAGC
AATCTTTTAGACCCGACAGTCAAGCCAGTGGATGTGGGTGGGGACGAGCCAGAGGAGAAGGTAGTTACCTCTGA
AAGGAGGCAGGAAAGGCGGTTCTTGAACAACCTGGTAGGTCAAGAAGTACCACCTGCTGAAGAGTCACCAGAGGT
GCAAACAGAGGCTGCAGAGGCCTCAGCTGTAGAGGCTGGATCAGAAGTCTCTGAAAAGCCTGGGCAGGAGGCTCC
AGTTCTCCCTAAGGATGGTGCAGTCAATGGACCGTCAGTTGTAGGAGATCAGACTCCTATTGAACCACAGACTTC
TATAGAAAGACTGACAGAAACAAAAGATGGCTCAGGACTAGAGGAGAAGGTGAGGGCAAAGCTGGTTCCTAGTCA
GGAGGAGACTAAGCTGTCTGTAGAAGAGTCTGAGGCAGCTGGAGATGGGGTTGATACCAAGGTAGCCAGGGAGC
TACTGAGAAATCACCTGAAGACAAAGTTCAGATAGCTGCTAATGAAGAGACACAAGAGAGAGAAGAACAGATGAA
AGAGGGTGAAGAACTGAAGGCTCGGAAGAGGATGATAAAGAAAATGATAAGACTGAAGAAATGCCAAATGATTC
AGTCCTTGAAGAACTAAGTCTCTTCAAGAAAATGAGGAGGAGGAGATTGGGAACCTAGAGCTTGCCTGGGATATGCT
GGATTTAGCAAAGATCATTTTTTAAAAGGCAAGAAACAAAAGAAGCACAGCTTTATGCTGCCCAGGCACATCTTAA
ACTCGGAGAAGTTAGTGTGAATCTGAAAACCTATGTGCAAGCTGTGGAGGAGTTCCAGTCTGCCTTAACCTGCA
GGAACAGTACCTGGAAGCCCACGACCGTCTGCTTGAGAGACCCACTACCAGCTGGGCTTGGCTTATGGGTACAA
CTCTCAGTATGATGAGGCAGTGGCACAGTTCAGCAAATCTATTGAAGTCATTGAGAACAGAATGGCTGTACTAAA
CGAGCAGGTGAAGGAGGCTGAAGGATCGTCTGAATACAAGAAAGAAATTGAGGAACTAAAGGAACTGCTACCCGA
AATTAGAGAGAAGATAGAAGATGCAAAGGAGTCTCAGCGTAGTGGGAATGTAGCTGAACTGGCTCTGAAAGCTAC
TCTGGTGGAGAGTTCTACTTCAGGTTTCACTCCTGGTGGAGGAGGCTCTTCAGTCTCCATGATTGCCAGTAGAAA
GCCAACAGACGGTGCTTCCTCATCAAATTGTGTGACTGATATTTCCACCTTGTGAGAAAGAAGAGGAAACCAGA
GGAAGAGAGTCCCCGGAAGATGATGCAAAGAAAGCCAAACAAGAGCCGGAGGTGAACGGAGGCAGTGGGGATGC
TGCCCCGAGTGGAAATGAAGTTTCGGAACATGGAGGAGGAGGCTGAGAATCAGCTGAAACGCGGAGCAGCAGT
GGAGGGGACACTGGAGGCTGGAGCTACAGTTGAAAGCACTGCATGTAAAGAGGGGGCACAGCCTCCTCCCAAGGG
AAAGTGTTTTGTATATAATGTATTTTTTCACTTTTGAGGATTCTTTTGTATAACTTCAATAAAGATTGTAAG
CAAAAAA

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FIGURE 292

MAMESTATAA VAADVVSADKIEDVPAPSTSADKVESLDVDSEAKKLLGLGQKHLVMGDI PAAVNAFQEAASLLGK
KYGETANECGEAFFFYGKS LLELARMENGLGNALGVHVEEEEGEKTEDES LVENNDNIDEEAREELREQVYDA
MGEKEEAKKTEDKSLAKPETDKEQDSEMEKGGREDMDISKSAEEPQEKVDLTLDWLTETSEEAKGGAAPGPN
EVTSGKPEQEV PDAEEESVSGTDVQEECREKGGQEKQGEVIVSIEEKPKEVSEEQPVVTLEKQGTAVEVEAESL
DPTVKPVDVGGDEPEEKVVTSENEAGKAVLEQLVGQEVPPAEESPEVQTEAAEASAVEAGSEVSEKPGQEPVLP
KDGAVNGPSVVG DQTP IEPQTSIERLTETKDGSGLEEKVRAKLVP SQEETKLSVEESEAAGDGVDTKVAQGATEK
SPEDKVQIAANEETQEREEQMKEGEETEGSEEDDKENDKTEMPND SVLENKSLQENEEEEIGNLELAWDMLDLA
KIIIFKRQETKEAQLYAAQ AHLKLGEVSVESENYVQAVEEFQSCNLQEQYLEAHDRLLAETHYQLGLAYGYSQY
DEAVAQFSKSIEVIENRMAVLNEQVKEAGSSEYKKEIEELKELLPEIREKIEDAKESQRSGNVAELALKATLVE
SSTSGFTPGGGGSSVSMIASRKPTDGASSSNCVTDISHLVRRKKRKPEEESPRKDDAKKAKQEPEVNGGSGDAVPS
GNEVSENMEEEAENQLKRGAAVEGTLEAGATVESTAC

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FIGURE 293

AAGCGATGGCTGGGCCCCGCTGGATCTCCAAGGTCTCTCGGCTGCTGGGGCATTCCACAACCCAAAACAGGTGA
CCAGAGGTTTTACTGGTGGTGTTCAGACAGTAACTTTAATTCCAGGAGATGGTATTGGCCCAGAAATTTAGCTG
CAGTTATGAAGATTTTTGATGCTGCCAAAGCACCTATTCAGTGGGAGGAGCGGAACGTCAGTGCCATTCAAGGAC
CTGGAGGAAAGTGGATGATCCCTTCAGAGGCTAAAGAGTCCATGGATAAGAACAAGATGGGCTTGAAAGGCCCTT
TGAAGACCCCAATAGCAGCCGGTCACCCATCTATGAATTTACTGCTGCGCAAAACATTTGACCTTTACGCGAATG
TCCGACCATGTGTCTCTATCGAAGGCTATAAAACCCCTTACACCGATGTAAATATTGTGACCATTTCAGAGAACA
CAGAAGGAGAATACAGTGGAAATTGAGCATGTGATTGTTGATGGAGTCGTGCAGAGTATCAAGCTCATCACCGAGG
GGCGGAGCAAGCGCATTGCTGAGTTTGCCTTTGAGTATGCCCGGAACAACCACCGGAGCAACGTCACGGCGGTGC
ACAAAGCCAACATCATGCGGATGTGAGATGGGCTTTTTCTACAAAATGCAGGGAAGTTGCAGAAAGCTGTAAAG
ATATTAAATTTAATGAGATGTACCTTGATACAGTATGTTTGAATATGGTACAAGATCCTTCCCAATTTGATGTTT
TTGTTATGCCAAATTTGTATGGAGACATCCTTAGTGACTTGTGTGCAGGATTGATCGGAGGTCTCGGTGTGACAC
CAAGTGGCAACATTGGAGCCAATGGGGTTGCAATTTTGTAGTCGGTTCATGGGACGGCTCCAGACATTGCAGGCA
AGGACATGGCGAATCCACAGCCCTCCTGCTCAGTGCCGTGATGATGCTGCGCCACATGGGACTTTTTGACCATG
CTGCAAGAATTGAGGCTGCGTGTGTTTGTCTACAATTAAGGACGGAAAGAGCTTGACAAAAGATTTGGGAGGCAATG
CAAAATGCTCAGACTTCACAGAGGAAATCTGTGCGCCGAGTAAAAGATTTAGATTAACTTCTACAACCTGGCATT
TACATCAGTCACTCTAAATGGACACCACATGAACCTCTGTTTAGAATACCTACGTATGTATGCATTGGTTTGCTT
GTTTCTTGACAGTACATTTTTAGATCTGGCCTTTTCTTAACAAAATCTGTGCAAAAGATGCAGGTGGATGTCCCT
AGGTCTGTTTTCAAAGAACTTTTTCCAAGTGCTTGTTTTATTTATTAAGTGTCTACCTGGTAAATGTTTTTTTG
TAACTCTGAGTGGACTGTATCATTTGCTATTCTAAACCATTTTACACTTAAGTTAAATAGTTTTCTCTTCAGCT
GTAAATAACAGGATACAGAATTAACAAGAGAAAATGTCTAACTTTTTAAGAAAAACCTTATTTTCTCGGTTTTT
GAAAAACATAATGGAAATAAAACAGGATATTGACATAATAGCACAAAATGACACTCTTCTAAAACTAAATGGGCA
CAAGAGAATTTTCTGGGAAAGTTCACATCAAAAAGAGTGAATGTGGTATATTTCTAAATGATATGGAAAATAGA
GACAGATTTGTCCTTTACAGAAATTACTGAGTGTGAATAAAAACCTTCAGATCCAAGAAATATATAATGAGAGATA
TAATTTTTGTAAATAAGACAAAGGTAATATATTGGATACAAAGACACAAATGTATTGTGTGTTCAATTATTTGT
TGTCTTGAGATTTAATATTCTTTCCAAGAGCTTTTAATGAAGCAGAGAGCTAGTACTTCATTTTCAGTGATACA
TTTTCAGCATCATGAGTTGTACAGCCTCTGAGCCCTGATCTGAAGCCAGAAGGGCTGAGTGTATTGTAACTT
ATTCTTGCATGTTGCTGTCTGGGAATGGACCACACTACAGCAGGTAGTTCTGGGGGCGATACTGCCGAAAGGCCC
GAACACATGTATTTTGGCTGCAATTGAGGAACCTGGGATGCTATTAATTTTGTATTTTCAGCAACTGCCCTTCTC
CTATCCCAAAGCACCAATTACTGCCCTCTGCCTCAGCAGTACCAGTATAAGATGACATTCCAAAGACTGGAGGCA
ACTCAGCCTGAGTTAATTCACAAAATTATGCCATGCTGGGGCTTGAGCTTGAGCTTGGGCTTAGGCTTGGGCTCA
GCTTTTGACCTCAGGCATCTCCTTTTCTTCTGTCTTCTCTCCCTTCTCCTCTGCTGCAGCATGATTTTCTT
AATCTTCAGACACTCACTATTTTCATGAACAGTTACCCTCTGTCCCCACAACCAAGACAACCTCATGGCCTCCTT
TGGCCCTTGTGTAAACATTGCAACCTGTGGCTTTGCAAAATGTACCCAGGTCACAAGGGGATTTTTTTTTTTTAA
GCAATGATATCCCTGTCTGGGTCACTTTTTAAGCTTGTAACCGCCCCCAGACTTATAATCTTAAATGTATTTT
CCTTTGTTTAAAGCTGCTGCTTCTCTGTTTCATTGGATTGTGCCAGTTATCAGTGGCTCTTGGGTTCAAAGTAAT
AAA

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FIGURE 294

MAGPAWISKVSRLLGAFHNPKQVTRGFTGGVQTVTLIPGDGIGPEISAAMKIFDAAKAPIQWEERNVTAIQGPG
GKWMIPSEAKESMDKNKMGLKGPLKTPIAAGHPSMNLLLRKTFDLYANVRPCVSIIEGYKTPYTDVNIVTIRENTE
GEYSGIEHVIVDGVVQSIKLITEGASKRIAEFAFEYARNNHRSNVTAVHKANIMRMSDGLFLQKCREVAESCKDI
KFNEMYLDTVCLNMVQDPSQFDVLVMPNLYGDILSDLCAGLIGGLGVTPSGNIGANGVAIFESVHGTAPDIAGKD
MANPTALLLSAVMMLRHMGLFDHAARIEAACFATIKDGKSLTKDLGGNAKCSDFTEEICRRVKDLD

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FIGURE 295

GCGCGCCTTCTCCAGTCCGCGGTGCCATGGGCCCCGCGCTCTGTTGCGCTGCTGCTGCTCTTCGTAGGCGGAG
TCGCCGAGTCGATCCGAGAGACTGAGGTCATCGACCCCAGGACCTCCTAGAAGGCCGATACTTCTCCGGAGCCC
TACCAGACGATGAGGATGTAGTGGGGCCCCGGGCAGGAATCTGATGACTTTGAGCTGTCTGGCTCTGGAGATCTGG
ATGACTTTGGAAGACTCCATGATCGGCCCTGAAGTTGTCCATCCCTTGGTGCCTCTAGATAACCATATCCCTGAGA
GGGCAGGGTCTGGGAGCCAAGTCCCCACCGAACCCAGAACTAGAGGAGAATGAGGTTATCCCCAAGAGAATCT
CACCCGTTGAAGAGAGTGAGGATGTGTCCAACAAGGTGTCAATGTCCAGCACTGTGCAGGGCAGCAACATCTTTG
AGAGAACGGAGGTCCTGGCAGCTCTGATTGTGGGTGGCATCGTGGGCATCCTCTTTGCCGCTCTTCCTGATCCTAC
TGCTCATGTACCGTATGAAGAAGAAGGATGAAGGCAGCTATGACCTGGGCAAGAAACCCATCTACAAGAAAGCCC
CCACCAATGAGTTCTACGCGTGAAGCTTGCTTGTGGGCACTGGCTTGGACTTTAGCGGGGAGGGAAGCCAGGGGA
TTTTGAAGGGTGGACATTAGGGTAGGGTGAGGTCAACCTAATACTGACTTGTGAGTATCTCCAGCTCTGATTACC
TTTGAAGTGTTTGAAGAGACATTGTCTTCTACTGTTCTGCCAGGTTCTTCTTGAGCTTTGGGCCCTCAGTTGCC
TGGCAGAAAAATGGATTCAACTTGGCCTTTCTGAAGGCAAGACTGGGATTGGATCACTTCTTAACTTCCAGTTA
AGAATCTAGGTCCGCCCTCAAGCCCATACTGACCATGCCTCATCCAGAGCTCCTCTGAAGCCAGGGGGCTAACGG
ATGTTGTGTGGAGTCTTGGCTGGAGGTCCTCCCCCAGTGGCCTTCCTCCCTTCCTTTCACAGCCGGTCTCTCTGC
CAGGAAATGGGGGAAGGAACCTAGAACCACCTGCACCTTGAGATGTTTCTGTAAATGGGTACTTGTGATCACACTA
CGGGAATCTCTGTGGTATATACCTGGGGCCATTCTAGGCTCTTTCAAGTGACTTTTGGAATCAACCTTTTTTAT
TTGGGGGGGAGGATGGGGAAAAGAGCTGAGAGTTTATGCTGAAATGGATTTATAGAATATTTGTAAATCTATTTT
TAGTGTTTGTTCGTTTTTTTTAACTGTTCAATTCCTTTGTGCAGAGTGTATATCTCTGCCCTGGGCAAGAGTGTGGAG
GTGCCGAGGTGTCTTCATTCTCTCGCACATTTCCACAGCACCTGCTAAGTTGTATTTAATGGTTTTTGTTTTTG
TTTTTGTTTGTTTCTTGAAATGAGAGAAGAGCCGGAGAGATGATTTTTATTAAATTTTTTTTTTTTTTTTTTTT
TACTATTTATAGCTTTAGATAGGGCCTCCCTTCCCCCTCTTCTTTCTTTGTTCTCTTTTCAATTAACCCCTTCCCCA
GTTTTTTTTTTTATACTTTAAACCCCGCTCCTCATGGCCTTGGCCCTTTCTGAAGCTGCTTCCTCTTATAAAATAG
CTTTTGCCGAAACATAGTTTTTTTTTTTAGCAGATCCCAAAATATAATGAAGGGGATGGTGGGATATTTGTGTCTGT
GTCTTATAATATATTATTATTCTTCCTTGGTTCTAGAAAAATAGATAAATATATTTTTTTTTCAGGAAATAGTGTG
GTGTTTCCAGTTTGATGTTGCTGGGTGGTTGAGTGAGTGAATTTTCATGTGGCTGGGTGGGTTTTTGCCTTTTTTC
TCTTGCCCTGTTTCTGGTGCCTTCTGATGGGGCTGGAATAGTTGAGGTGGATGGTTCTACCCCTTTCTGCCTTCTG
TTTGGGACCCAGCTGGTGTCTTTGGTTTGTCTTCTTCAGGCTCTAGGGCTGTGCTATCCAATACAGTAACCACA
TGCGGCTGTTTAAAGTTAAGCCAATTAAAATCACATAAGATTAAAAATTCCTTCCTCAGTTGCACTAACCCAGTT
TCTAGAGGCGTCACTGTATGTAGTTTCTATGGCTACTGTACTGACAGCGAGAGCATGTCCATCTGTTGGACAGCACT
ATTCTAGAGAACTAACTGGCTTAACGAGTCACAGCCTCAGCTGTGCTGGGACGACCCTTGTCTCCCTGGGTAGG
GGGGGGGGAATGGGGGAGGGCTGATGAGGCCCCAGCTGGGGCCTGTTGTCTGGGACCCTCCCTCTCCTGAGAGGG
GAGGCCTGGTGGCTTAGCCTGGGCAGGTCGTGTCTCCTCCTGACCCAGTGGCTGCGGTGAGGGGAACCCCTC
CCTTGCTGCACCAAGTGGCCATTAGCTCCCGTCACCACTGCAACCCAGGGTCCAGCTGGCTGGGTCTCTCTGCTG
CCCCAGTGCCCTTCCCTTGGGCTGTGTTGGAGTGAGCACCTCCTCTGTAGGCACCTCTCACACTGTTGTCTGTT
ACTGATTTTTTTTTGATAAAAAGATAATAAAACCTGGTACTTTCTAAAAA

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FIGURE 296

MAPARLFALLLLFVGGVAESIRETEVIDPQDLLEGRYFSGALPDDEDVVGPGQESDDFELSGSGDLDDLED SMIG
PEVVHPLVPLDNHUPERAGSGSQVTEPKKLEENEVIPKRISPVEESEDVSNKVSMSSTVQGSNIFERTEVLAAL
IVGGIVGILFAVFLILLMYRMKKKDEGSYDLGKKPIYKKAPTNEFYA

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FIGURE 297

CAGTGGCGCTTGGCGGGTTGAGGGCGGTGGCTCAGTCTCCTGGAAAGGACCGTCCACCCCTCCGCGCTGGCGGTG
TGGACGCGGAACTCAGCGGAGAAACGCGATTGAGAAATGGAAAAGAAAATGAAATAAATCAGCAGTTATGAGGCA
GAGCCTAAGAGAACTATGGCAACATCAGGTGACTGTCCAGAAAGTGAATCGCAGGGGAGAAGAGCCTGCTGAGTGC
AGTGAGGCGGGTCTCCTGCAGGAGGGAGTACAGCCAGAGGAGTTTGTGGCCATCGCGGACTACGCTGCCACCGAT
TCCAGCTCAGTTTTTTGAGAGGAGAAAAAATTCTTATCCTGAGACAAACCACTGCAGATTGGTGGTGGGGT
TGGCGGCTGCTGTGGGTACATTCCGGCAAACCATGTGGGGAAGCACGTGGATGAGTACGACCCCGAGGAC
GGCAGGATGAAGAGTACTTCGGCAGCTATGGAACCTCTGAAACTCCACTTGGAGATGTTGGCAGACCAGCCA
AACTAAATAACACAGTGTATCCTGCAGAATAAAGAAATCCCTGACGGATAAAGTCATCCTGGACGTGGGC
GGACTGGGATCATCAGTCTCTTCTGTGCACACTATGCGCGGCCCTAGAGCGGTGTACGCGGTGGAGGCCAGT
TGGCACAGCACACGGGGCAGCTGGTCTGCAGAACGGCTTTGCTGACATCATCACCGTGTACAGCAGAAG
GGATGTGGTGTGCCCCGAGAAGGTGGACGTGCTGGTGTCTGAGTGGATGGGGACCTGCCTGCTGTTTGTAG
TGATCGAGTCCATCCTGTATGCCCGGGATGCCTGGCTGAAGGAGGACGGGGTCATTTGGCCCAACCATGGCT
TGACCTTGTGCCCTGCAGTGTGATAGGATTATCGTAGCCAAGGTGCTCTTCTGGGACAACCGGTACGAG
AACCTCAGCGCTCTGAAATCTTTAGCAGTTAAGGAGTTTTTTTCAAAGCCCAAGTATAACCACATTTTGAAA
GAGAAGACTGTCTCTCTGAACCGTGCACTATATTGCAGTTGGACATGAGAACCGTGCAAATTTCTGATCTAGAG
AUCCTGAGGGGCGAGCTGCGCTTCGACATCAGGAAGGCGGGGACCCTGCACGGCTTCACGGCCTGGTTTAGCGTC
CACTTCCAGAGCCTGCAGGAGGGGCGAGCCGCCGAGGTGCTCAGCACGGGGCCCTTCCACCCCAACACACTGG
AAGCAGACGCTGTTTATGATGGACGACCCAGTCCCTGTCCATACAGGAGACGTGGTCACGGGTTTCACTTGTGTTG
CAGAGAAACCCAGTGTGGAGAAGGCACATGTCTGTGGCTCTGAGCTGGGCTGTCACTTCCAGACAAGACCCACA
TCTCAAAAAGTTGGAGAAAAAGTCTTCCCCATCTGGAGATGACAGTTGATGCTTTATTTGAAAGCAGTGTGCAT
ATCTTGAGGGGTGATGAACACAAGCAAACCAAGTTGCACCTGGCTTCTGCACACTCCTGCGAAAGTCGGTGAACA
TTCACTCCACATTGACCCCTCCCTAGCCTGGCAGGTGACGTGAGGGTCTTACAGACAAACAGCTTGGGCTCG
GCAGGAGCTGCCGTGGCCACCCCGCTGCCAGTGTCTGCCCTCTAGAAGTAGGCTGTGTTTCCAGGTGTTTACC
CGTGGTGCCACAGTGCCGACCCGTGGCTGGGTGCGAGCTCCATGTTCTTAAGCTAGGTCTAGGTCTACACTCCT
AGGACGCACGCATATCAGCCCGTGTACCCTGTGACAGTGAAGTGTCCCACTCCTGTGTTAGTGGTGCCCTTACT
GCCGTGCTCATCCACTCGTGTGGGACGTAGGATTGCACAGGGCTGTGCCAGTGGCGTGTAGGGAACACTGCCCT
GGCTCAGCGTGCAGCTAAGGTGGCGATGTATGCGATGGGACTCTGCATGGGATAGTACAGTTGTGTAGACGTCT
TCCAAATAAATTATGTGTTGGTGCCATCGCACATGCTCAATAAATATTTTAAATGAGTGAAAAA

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FIGURE 298

MATSGDCPRSESQGEEPAECSEAGLLQEGVQPEEFVAIADYAATDETQLSFLRGEKILILRQTTADWWWGERAGC
CGYIPANHVKGKHVDEYDPEDTWQDEEYFGSYGTLKLHLEMLADQPRTTKYHSVILQNKESLTDKVILDVGC GTGI
ISLFCAHYARPRAVYAVEASEMAQHTGQLVLQNGFADIITVYQQKVEDVVLPEKVDVLVSEWMGTCLLFEFMIES
ILYARDAWLKEDGVIWPTMAALHLVPC SADRIIVAKVLFWDNAYEFNLSALKSLAVKEFFSKPKYNHILKPEDCL
SEPCTILQLDMRTVQISDLETLRGELRFDIRKAGTLHGFTAWFSVHFQSLQEGQPPQVLSTGPFHPTTHWKQTLF
MMDDPVFPVHTGDVVTGSSVLQRNPFVRRHMSVALSWAVTSRQDPTSQKVGEKVFP IWR

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FIGURE 299

AATTCCGCGGAATCATCGGAATCCTTCACCAATGGCATCCAGCCCCGCCAGCGTCGGCGAGGCAATGATCCTCTC
ACCTCCAGCCCTGGCCGAAGCTCCCGGCGTACTGATGCCCTCACCTCCAGCCCTGGCCGTGACCTTCCACCATT
GAGGATGAGTCCGAGGGGCTCCTAGGCACAGAGGGGGCCCTGGAGGAAGAAGAGGATGGAGAGGAGCTCATTGGA
GATGGCATGGAAAGGGACTACCGCGCCATCCCAGAGCTGGACGCCTATGAGGCCGAGGGACTGGCTCTGGATGAT
GAGGACGTAGAGGAGCTGACGGCCAGTCGAAGGGAGGCAGCAGACGGGCCATGCGGCACGGTGACCGGGAGCTGG
CCGGGGCTGGGCGCATGCGCCGTGGGCTCCTGTATGACAGCGATGAGGAGGACGAGGAGCGCCCTGCCCCGAAGC
GCCGCCAGTGGAGCCGGCACGGAGGACGGCGAGGAGGACGAGCAGATGATTGAGAGCATCGAGAACCTGGAGGAT
CTCAAAGGCCACTCTGTGCGGAGTGGGTGAGCATGGCGGGCCCCCGGCTGGAGATCCACCACCGCTTCAAGAAC
TTCTTGCGCACTCACGTGACAGCCACGGCCACAACGTCTTCAAGGAGCGCATCAGCGACATGTGCAAAGAGAAC
CGTGAGAGCCTGGTGGTGAATATGAGGACTTGGCAGCCAGGGAGCACGTGCTGGCCCTACTTCTGCTGAGGCA
CCGGCGGAGCTGCTGCAGATCTTTGATGAGGCTGCCCTGGAGGTGGTACTGGCCATGTACCCCAAGTACGACCGC
ATCACCACACATCCATGTCCGCATCTCCACCTGCCTCTGGTGGAGGAGCTGCGCTCGCTGAGGCAGCTGCAT
CTGAACCAGCTGATCCGCACCAAGTGGGGTGGTGACCAGCTGCACTGGCGTCTGCCCCAGCTCAGCATGGTCAAG
TACAACCTGCAACAAGTGCAATTTTCGTCTGGGTCCCTTTCTGCCAGTCCCAGAACAGGAGGTGAAACCAGGCTCC
TGTCCTGAGTGCCAGTCGGCCGGCCCCCTTTGAGGTCAACATGGAGGAGACCATCTATCAGAACTACCAGCGTATC
CGAATCCAGGAGAGTCCAGGCCAAAGTGGCGGCTCGGCGGCTGCCCGCTCCAAGGACGCCATTCTCTCGCAGAT
CTGGTGGACAGCTGCAACGCAGGAGACGAGATAGAGCTGACTGGCATCTATCACAACACTATGATGGCTCCCTC
AACACTGCCAATGGCTTCCCTGTCTTTGCCACTGTCTATCCTAGCCAACCACGTGGCCAAGAAGGACAACAAGGT
GCTGTAGGGGAAGTACCGATGAAGATGTGAAGATGATCACTAGCCTCTCCAAGGATCAGCAGATCGGAGAGAAG
ATCTTTGCCAGCATTGCTCCTTCCATCTATGGTCATGAAGACATCAAGAGAGGCCCTGCTCTGGCCCTGTTCCGA
GGGGAGCCCCAAAACCCAGGTGGCAAGCACAAGGTACGTGGTGATATCAACGTGCTCTTGTCGGGAGACCCTGGC
ACAGCGAAGTCGCAGTTTCTCAAGTATATTGAGAAAGTGTCCAGCCGAGCCATCTTACCCTGGCCAGGGGGCG
TCGGCTGTGGCCGTACGGCGTATGTCCAGCGGCACCCTGTGACGAGGGAGTGGACCTTGGAGGCTGGGGCCCTG
GTTCTGGCTGACCGAGGAGTGTGTCTCATTGATGAATTTGACAAGATGAATGACCAGGACAGAACCAGCATCCAT
GAGGCCATGGAGCAACAGAGCATCTCCATCTCGAAGGCTGGCATCGTCACCTCCCTGCAGGCTCGCTGCACGGTC
ATTGCTGCCGCCAACCCCATAGGAGGGCGCTACGACCCCTCGCTGACTTTCTCTGAGAACGTGGACCTCACAGAG
CCCATCATCTCACGCTTTGACATCCTGTGTGTGGTGAGGGACACCGTGGACCCAGTCCAGGACGAGATGCTGGCC
CGCTTCGTGGTGGGACGCCACGTGACACACCACCCAGCAACAAGGAGGAGGAGGGGCTGGCCAATGGCAGCGCT
GCTGAGCCCGCCATGCCAACACGTATGGCGTGGAGCCCCCTGCCCCAGGAGGTCTGAAGAAGTACATCATCTAC
GCCAAGGAGAGGGTCCACCCGAAGCTCAACCAGATGGACCAGGACAAGGTGGCCAAGATGTACAGTGACCTGAGG
AAAGAATCTATGGCGACAGGCAGCATCCCCATTACGGTGCGGCACATCGAGTCCATGAGTCATGGCGGAGGCCCCA
CGCGCGCATCCATCTGCGGGACTATGTGATCGAAGACGACGTCAACATGGCCATCCGCGTGTATGCTGGAGAGCTT
CATAGACACACAGAAGTTCAGCGTCATCGCAGCATGCGCAAGACTTTTGCCCGCTACCTTTTATTCCGGCGTGAC
AACAATGAGCTGTTGCTCTTCACTGAAGCAGTTAGTGGCAGAGCAGGTGACATATCAGCGCAACCGCTTTGGG
GCCCAGCAGGACACTATTGAGGTCCCTGAGAAGGACTTGGTGGATAAGGCTCGTCAGATCAACATCCACAACCTC
TCTGCATTTTATGACAGTGAGCTCTTCAGGATGAACAAGTTCAGCCACGACCTGAAAAGGAAAATGATCCTGCAG
CAGTTCTGAGGCCCTATGCCATCCATAAGGATTCTTGGGATTCTGGTTTGGGGTGGTCAGTGCCCTCTGTGCTT
TATGGACACAAAACAGAGCACTTGATGAACTCGGGGTACTAGGGTCAGGGCTTATAGCAGGATGTCTGGCTGCA
CCTGGCATGACTGTTTGTCTTCCAAGCCTGCTTTGTGCTTCTCACCTTTGGGTGGGATGCCTTGCCAGTGTGTC
TTACTTGGTTGCTGAACATCTTGCCACCTCCGAGTGCTTTGTCTCCACTCAGTACCTTGGATCAGAGCTGCTGAG
TTCAGGATGCCTGCGTGTGGTTTAGGTGTTAGCCTTCTTACATGGATGTGAGGAGAGCTGCTGCCCTCTTGGCGT
GAGTTGCGTATTACAGCTGCTTTTGTCTGCTTTGGCCAGAGAGCTGGTTGAAGATGTTTGTAAATCGTTTTCAGTC
TCCTGCAGGTTTCTGTGCCCTGTGGTGGAAGAGGCACGACAGTGCCAGCGCAGCGTTCTGGGCTCCTCAGTCGC
AGGGGTGGGATGTGAGTCATGCGGATTATCCAATCGCCACAGTTATCAGCTGCCATTGCTCCCTGTCTGTTTCCC
CACTCTCTTATTTGTGCATTCCGTTTGGTTTCTGTAGTTTTAATTTTAAATAAAGTTGAATAAAATATAAAAAA
AAAA

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FIGURE 300

MASSPAQRRRGNDPLTSSPGRSSRRTDALTSSPGRDLPPFEDESEGLLGTEGPLLEEEEDGEELIGDGMERDYRAI
PELDAYEAEGLALDDEDVEELTASRREAADGPCGTVTGSWPGLGACAVGSCMTAMRRTRSALPASAASGAGTEDG
EEDEQMIESIENLEDLKGHSVREWVSMAGPRLEIHHRFKNFLRTHVDSHGHNVFKERISDMCKENRESLVVNYED
LAAREHVLAYFLPEAPAELLQIFDEAALEVVLAMYPKYDRITNHIHVRI SHLPLVEELRSLRQLHLNQLIRTSGV
VTSTGVLPLQLSMVKYCNKCNFVLGPFCQSQNQEVKPGSCPECQSAGPFVNMETIYQNYQRIRIQESPGKVA
ARRLPKSKDAILLADLVDSNAGDEIELTGIYHNNDGSLNTANGFPVFATVILANHVAKKDNKVAVGELTDEDV
KMITSLSKDQQIGEKIFASIAPSIYGHEDIKRGPALALFGGEPKNPGGKHKVRGDI NVLLCGDPGTAKSQFLKYI
EKVSSRAIFTTGQASAVAVTAYVQRHPVSREWLEAGALVLADRGVCLIDEFDKMNDQDRTSIHEAMEQQSISI
SKAGIVTSLQARCTVIAAANPIGGRYDPSLTFSENVDLTEPIISRFDILCVVRDTPVQDEMLARFVVGSHVRH
HPSNKEEEGLANGSAAEPAMPNTYGVEPLPQEVLLKKYIIYAKERVHPKLNQMDQDKVAKMYSDLRKESMATGSIP
ITVRHIESMSHGGGPRAHPSAGLCDRRRRQHGHPRDAGELHRHTEVQRHRSMRKT FARYLSFRRDNNELLFLK
QLVAEQVTYQRNRFGAQQDTIEVPEKDLVDKARQINIHNL SAFYDSELF RMNKF SHDLKRKMILQQF

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FIGURE 301

GAGCTGCGAAAGGGCGGGAAAGGCAGTTGGAGAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAG
GCGGCGGCGGCCTCGGCTGAAGAAAGAAGGTGGGAGCGGAGAGCGCAGGCGTGAAATCTTCCCAAGGCTGCAGAC
ACCGACGGATTTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAGCCATGAGCGGGTTTAATTTTGG
AGGCACTGGGGCCCCCTACAGGCGGGTTCACGTTTGGCACTGCAAAGACGGCAACAACCACACCTGCTACAGGGTT
TTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAACCAGCCACAAGTACCCCTTCCAC
CGGCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCACTTTTGGAACAGCGACTCTTGC
TTGGGGGGAACTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGAGCAACACAGCTGCCACCCAGC
CATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCATATCGAGCACCGTACCTCCAG
CCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGGCTCCAGCTACCACATCTGGAGG
CTTCTCATTCACTGGTGGAAAGCACGGCCCAACCCTCCGGTTTCAACATTGGCTCAGCAGGGAATTTCAGCCCAGCC
CACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAGCAGGTGCCACACAGCCAGCTGC
TCCCACACCCACAGCCACCATCACCAGTACTGGGCCCAGCCTCTTGGCGTCAATAGCAACTGCTCCAACCTCATC
TGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCACTGCTGGGACACAGGGCTTCAG
CTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTGCCACCGCCACCGCCACCACCAC
CACCAGCAGCAGCACCCACCGGCTTTGCCTTGAATTTAAACCACCTGGCGCCAGCCGGGATCCCCAGCAATACAGC
AGCTGCCGTGACCGCTCCACCTGGCCCTGGCGCAGCTGCAGGGGCGGGTGGCAGCTCCGCCATGACCTACGCGCA
GCTGGAGAGCCTGATCAACAAATGGAGCCTGGAGCTAGAGGACCAGGAGCGGCACTTCCTCCAGCAGGCCACCCA
GGTCAACGCCTGGGACCGCACGCTGATCGAGAATGGAGAAAAGATCACCAGCCTGCACCGCGAGGTGGAGAAGGT
GAAGCTGGACCAGAAGAGGCTGGACCAGGAGCTCGACTTCATCCTGTCCAGCAGAAGGAGCTGGAAGACCTGCT
GAGCCCACTGGAGGAGTTGGTCAAGGAGCAGAGCGGGACCATCTACCTGCAGCACGCGGATGAGGAGCGTGAGAA
AACCTACAAGCTGGCTGAGAACATCGACGCACAGCTCAAGCGCATGGCCCAGGATCTCAAGGACATCATCGAGCA
CCTGAACACGTCCGGGGCCCCCGCCGACACCACTGACCCACTGCAGCAGATCTGCAAGATCCTCAATGCGCACAT
GGACTCACTGCAGTGGATCGACCAGAACTCGGCCCTGCTGCAGAGGAAGGTGGAGGAGGTGACCAAGGTGTGCGA
GGGCCGGCGCAAGGAGCAGGAGCGCAGCTTCCGGATCACCTTTGACTGAGCGACAGCAGCCCTGGGGCCCCGAGG
TCCCTAGGGAGTTTCATGAGGGGAATGCGCCCTGTTGTCTGTAGTTTGGGGTTGTGGCAAGATACTTGTTTGTTTG
TTTCTTTCTTTACATGACTGCCCTTGACATGATCGCTGTGTGCTTTGCGTTTTTCCATTTAGGAGGGTATTCTG
GGCCTTCTGCCCAGGCAGCAGCCTCATGGGTGTGGCTTCTGTGGCTTTTCAATTTAGTATCTTTGGCCCCCTTTTCA
CCTACTGCGACCAACCCACCTCATCCTGGCTCAGCCTGGTGTATGGAGAAGTGTGTGCTTGTGGTCCCAGCCAGG
GTCGTGGGGGCAGCCACTCTCTCAAAGCATAGTATGGGTGTATGAAAAAATACCAAATGTAAGAGAACCTCC
AAGTCAGGGCGCAGTGGCTCACCCCTGTAATCTCAGCACTTTGGGTGGCCAAGGCGGGCAGATGACTTGAGGTCA
GGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGTCAGGTGTGGT
GGACGCCTGTGATCTCAATCTCAGCTACTCGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGTGTTGCA
GTGAACCAAGATCACACCACTGCACTCCAGCCTAGGCAACAGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAG
AAACTCCCAGGAGACAGCAGCCTAGTTTTTCGAGTGTGAGCTTGTGCTTGTGAAAGCTAACCATGCTAACCACCA
GGCAAAGCAGCACAGTGTGAATAGAACAGAGCGGGATCAAGAATTTACAGAAGACAGGTGAGTGGGGCCTG
CACACACAGGGTGTGAGGAACACAGATGGGCGCCGAGAGGCCTGCCTTTTGCCTGGCCAGGCTCACCCCCAC
CTTGGGCCTCACCTCCTCTAGGAAGCCTTCCAGCTACCCGAAGCTCAGGTGGCCTTCTTGCAGGTCCCCGTAGC
ACCCTGAGCCTGTACCTTGGGTGGCACTTGTATGCTATCCTGTGCTAGCCGTTTGTGCTCGTCTCGCTGTAG
ATTGTGAGTTCCCATGGGCAGAGACCCACTGTGCTTCCCGTGTGTCCCCAGCCCGGTCCCTGTACATTTGTTA
AATGAAAGAACAATGAAGCCAGTGTAACGTGAGTCCACAGAAATAGCCACAGCTTCCAGTGGTGGCCGTAGACT
TGGCTCGGAACCTAGTGGCACCAAGAGTAACCTAGTACAGTAAATCCACTGTGTGTGGAAGGCAGAAGC
TAGCGGTTGTATCCCAAGCATCTTTGTATTTGTCTTTATACTTTGCTGAATTCTCTGAAATACCTATTACTGTA
TGTGGCTTTTCTAAATAAATGTATTGTGAACTAAAAAAAAAAAAAAAAA

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FIGURE 302

MSGFNFGGTGAPTGGFTFGTAKTATTTTPATGFSFSTSGTGGFNFGAPFQPATSTPSTGLFSLATQTPATQTTGFT
FGTATLASGGTGFSLGIGASKLNLSNTAATPAMANPSGFGGLSSNLTAISSTVTSSQGTAPTGFVFGPSTTSVA
PATTSGGFSFTGGSTAQPSGFNIGSAGNSAQPTAPATLPFTPATPAATTAGATQPAAPTPTATITSTGPSLFIASI
ATAPTSSATTGLSLCTPVTTAGAPTAGTQGFSLKAPGAASGISTTTSTAATATATTTTSSSTTGFAINLKPLAPA
GIPSNTAAAVTAPPGPGAAAGAAASSAMTYAQLES LINKWSLELEDQERHFLQQATQVNAWDRTLIENGEKITS
HREVEKVKLDQKRLDQELDFILSQQKELEDLLSPLEELVKEQSGTIY LQHAEEREKTYKLAENIDAQLKRMAQD
LKDIIEHLNTSGAPADTS DPLQQICKILNAHMDSLQWIDQNSALLQRKVEEVTKVCEGRRKEQERSFRITFD

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FIGURE 303

CCAGGGACCGTGCTCCGCCGTCTCCGCCGATCTTCCACCCTCGCCGCCGCCGAGCTCCCCGCGCTCGTGCCA
CCGCCGCCGCGTCCACCCTCAGCGCCACCGCCATGCGGGAGATCGTGCACCTGCAGGCCGGCCAGTGCGGCAACC
AGATCGGGGCCAAGTTTTGGGAGGTTATCAGTGACGAACATGGCATCGACCCACAGGCACATACCATGGGGACA
GTGACCTGCAACTGGAGAGGATCAACGTGTACTACAACGAGGCCACAGGAGGAAATTATGTCCCCAGAGCGGTGC
TTGGACCTGGAACCCGGCACCATGGACTCTGTCCGTTCTGGCCCCCTTCGGTCAGATCTTTCCGCCGGACAAC
TTTGGCCAATCCGGAGCCGGCAACAACCTGGGCAAAGGGGCACCTACACGGAGGGCGCAGAGCTGGTGGACG
TCCTGGACGTAGTCCGGAAGGAGGCCGAGAGCTGCGACTGCCTTCAGGGCTTCAGCTGACCCACTCGCTGG
GGTGGCACGGGGTCCGGAATGGGCACGCTGCTCATCAGTAAGATCCGCGAGGAGTTCCAGACCCGATCATGA
ACCTTCAGCGTGGTGCCCTCGCCCAAAGTGTGACACAGGTGGTGGAGCCCTACAACGCCACGCTGTCTGTGC
AGCTGGTGGAGAATACGGATGAGACCTACTGCATCGACAACGAGGCACTCTACGACATCTGTTTCCGCACCC
AGCTGACACCCCCACCTACGGGGACCTCAACCACCTGGTGTGGCCACCATGAGCGGGGTCAACACCTGCC
CTTCCCGGGCCAGCTGAACGCCGACCTGCGCAAGCTGGCCGTCAACATGGTTCCCTTTCCTCGCCTGCACT
TCATGCCCGGCTTCGCACCCCTGACCAGCCGGGGCAGCCAGCAGTACCGGGCCCTGACGGTGCCCGAGCTCA
AGCAGATGTTTCGATGCCAAGAACATGATGGCGGCGTGGGACCCGCGCCACGGCCGCTACCTGACCGTGCGCG
CGTGTTCCGGGGCCGCATGTCCATGAAGGAGGTGGACGAGCAGATGCTGAGCGTGACAGCAAGAACAGCAGCT
ACTTCGTGGAGTGATCCCCAACACGTGAAGACGGCCGTGTGCGACATCCCGCCCCGCGCCTGAAGATGGCCG
CGACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCC
GGCGCAAGGCCTTCTTGCACTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACA
TGAATGACCTGGTATCTGAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAGGGCGAGTTCGAGGAGGAGGCGG
AGGAGGAGGTGGCCTAGGCTGCTCCCATCGCTTCCACCTGTCCCTCGAGGCTTCTGACCTTTGATCCGCTAGG
CCCCCATCTCTGAACCTTAGAGCCCCGCTTTCCTTCCAAGGCTGACTCCCCGCTGACCTTAACAATACCTTTGG
AGCTCGCTTTACCTCTGGCTACTTCATCTCCGACCCTGGCTCCCCCTTTGAGCCCTAATTTATCTTTAACCCCTT
GAGCTCTTCCAACCTTGACATTCACAGGAGGAGCCCCGCTTACCCCTTCTGACTCTGGAAACCGCACCTTTAAC
TTTGACAGACCTTCCTTACCCCTGACTTCTGCTTACCTTTGACCTCTGCCCCCATGAATCCCATTTTACCTCT
AGACCTATAAGTTCTGTTTTATGTTTGACCCCTCCCTCTGAGCTGCACTTCACCGCTGACCTTGCCCTACCTTTA
ACCCCCACCTGAGCCCCAGCTCCTACCTCTGACCCCACTTCTCTTTGATCTCTGAATCCCTCTGACTCCAAC
TTCTCTTTCACCTCTATGAGTCCATTTTACTTCTACACCTGCAAGTCTGTTTATATTGGACCCCTCCCTCC
GAGCTGCAGTTCACCTTTGACCTTGCCCTACCTTTACCCCCACCCCCACAGCGTCAGCTCCTACCTCTGACC
CCAGCTTCTCTGATTCCACAGGCCCCATGCATCCTCCCTGCCTCACTCCCTCAGCCCCGTCCGACCTTAGC
TTATCTGGGAGAGAAACAAGGCCTGGTGCTGTGAGGAAGAGAGGTCACCCCTACCTCCCTCCCCGCTTCCCTG
CCTCACCTCAATAAATAAATTAATTGTTGTCATGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 304

MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLERINVYYNEATGGNYVPRAVLVDLEPGTMS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDAVLDDVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL
LISKIREEFDPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPQQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDAKNMM
AACDPRHGRYLTVAAVFRGRSMKEVDEQMLSVQSKNSSYFVEWIPNNVKTAVCDIPPRGLKMAATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEGEFEEEEEEVA

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FIGURE 305

CGGCCGCGTCCTCAAGCCGGCACCTGAGCGGCGGAGACGGCTGTAGCACAAAGGATCTGCATCTCCAATGGATACT
GAGGGGTTTGGTGAGCTCCTTCAGCAAGCTGAACAGCTTGCTGCTGAGACTGAGGGCATCTCAGAGCTTCCCCAT
GTGGAACGGAACTTACAGGAGATCCAGCAGGCGGGAGAGCGCCTGCGTTCCCGTACCCTAACACGCACGTCCAG
GAGACGGCAGATGTCAAGGCGTCAGTTCTCCTCGGGTCTCGGGGACTTGACATATCCCACATCTCCAGCGATTG
GAGAGTCTGAGTGAGCCACCACCTTTGAGCCTCTTGAGCCTGTGAAGGACACTGACATTGAGGGCTTCTCTGAAG
AATGAGAAGGACAATGCCCTGCTGTCTGCCATCGAAGAGTCCCGGAAGAGGACCTTCGGCATGGCTGAGGAGTAC
CATCGGGAGTCAATGTTGGTTGAGTGGGAGCAAGTGAAACAGCGAATTCTGCACACACTGCTGGCATCAGGAGAA
GACGCCCTTGACTTTACTCAAGAAAGCGAGCCAAGCTACATCAGTGATGTGGGACCCCCCTGGTGAAGCTCTCTG
GATAACATCGAGATGGCCTATGCGCGGCAAATTTATATCTATAATGAGAAAATTGTAAATGGACACCTGCAGCCT
AACCTGGTGGACCTTTGTGCTTCCGTGCGAGAGCTGGATGATAAGAGCATTTCGACATGTGGACCATGGTAAAA
CAATGACAGACGTGTTGTTGACACCGGCAACGGATGCCCTGAAGAACCGCAGCAGCGTGGAAGTGCAGCATGGAG
TTTGTGAGGACGGCCTTGGCGTACCTTGAGCAGAGTTATAAGAATTACACCCTTGAGCTGTCTTTGGAAATTG
CATCAGGCCCAGCTGGGCGGGGTGCCTGGGACTTACCAATTGGTTCGAAGTTTCCTGAACATTAAACTGCCAGCT
CCCTTGCCCTGGACTACAGGATGGAGAGGTGGAAGGCCATCCTGTGTGGGCGCTAATTTACTACTGCATGCGCTGT
GGAGACCTGCTTGCCGCTTCACAGGTAGTTAATCGAGCCCAGCACCAGCTGGGAGAGTTTAAACCTGGTTCCAG
GAGTACATGAACAGCAAGGACAGAAGATTGTCCCCAGCTACGGAAAACAAGCTCCGGCTGCATTACCGTAGGGCC
CTCAGGAACAATACAGATCCCTACAAGCGGGCCGTGTACTGTATCATTTGGCAGATGTGACGTACCGACAACCA
AGTGAAGTGGCGGACAAAAGTGAAGATTACCTGTGGCTGAAGTTGAACCAAGTGTGTTTTGACGACGATGGCACC
AGCTCCCCACAAGACAGGCTCACTCTCTCACAGTTCCAGAAGCAGTTGTTGGAAGACTATGGCGAGTCCCACCTT
ACGGTGAACCAGCAACCCCTTCTCTACTTCCAAGTCTGTTCCTGACAGCGCAGTTTGAAGCAGCAGTTGCCCTT
CTTTTCCGCATGGAGCGGCTGCGCTGCCATGCTGTCCATGTAGCACTGGTGCTGTTTGAGCTGAAGCTGCTTTTA
AAGTCTCTGAGACAGAGTGCTCAGCTCCTCAGCCACGAGCCTGGTGACCCTCCTTGCTTGCGGCGGCTGAACTTC
GTGCGGCTCCTCATGCTGTACACCCGGAAGTTTGAGTCCACGGACCCAAGGGAGGCCCTCCAGTACTTCTATTTT
CTCAGGGATGAGAAAGATAGTCAAGGAGAAAACATGTTTCTGCGCTGTGTGAGTGAGCTTGTGATTGAAAGCCGA
GAGTTGATATGATTCTTGGGAACTAGAGAATGACGGAAGTAGAAAGCCTGGAGTCATAGATAAGTTTACTAGT
GACACAAAGCCTATTATCAACAAAGTTGCTTCTGTGGCAGAAAATAAAGGACTGTTTGAAGAGGCAGCAAAGCTG
TATGACCTTGCCAAGAATGCTGACAAGGTACTGGAGCTGATGAACAAACTGCTGAGCCCTGTCTGTCCTCCAGATC
AGTGCCCCGCAATCCAACAAGGAGAGGCTGAAGAACATGGCACTCTCCATTGCCGAACGGTATAGGGCTCAAGGA
ATAAGCGCAAATAAATTTGTGGACTCCACGTTCTATCTTCTTTTGGACTTGATCACCTTTTTGACGAGTATCAT
AGTGGTCATATTGATAGAGCTTTTGATATCATTGAGCGCTTGAAGCTGGTGCCCTGAATCAGGAAAGTGTGGAA
GAGAGAGTGGCTGCTTTTCAAGAAATTCAGTGATGAAATCAGGCACAACCTCTCAGAAGTGCTTCTTGCCACCATG
AACATCTTGTTACACAGTTTAAGAGGCTCAAGGGGACAAGTCCATCCTCGTCATCCAGGCCCCAGCGAGTCATC
GAGGACCGCGACTCTCAACTCCGAAGTCAAGCCCGCACTCTGATTACCTTTGCTGGAATGATACCATAACCGAACG
TCTGGGGACACCAATGCGAGGCTGGTGCAGATGGAGTCTCATGAATTAAAGTGCCATGCTTTGTGGGAGTCTGG
GTCGGCACACTGTGAGTACATCAGGCACATGGGCCACTAGGCTGGGGTTTCTGGTTTTGTTTCTGTTGTGTTTT
GTTTTGGTTTTCTGTATTATGTATTTTTGTCAACGCCAATAAATTTCTTTGATTGT

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FIGURE 306

MDTEGFGELLQQAEQLAAETEGISELPHVERNLOEIQQAGERLRSRTLTRTSQETADVKASVLLGSRGLDISHIS
QRLESLSAATTFEPLVPKDDTIQGFLKNEKDNALLSAIEESRKRTFGMAEEYHRESMLVEWEQVKQRILHTLLA
SGEDALDFTQESEPSYISDVGPGRSSLDNIEMAYARQIYIYNEKIVNGHLQPNLVDLCASVAELDDKSISDMWT
MVKQMTDVLLTPATDALKNRSSVEVRMEFVRQALAYLEQSYKNYTLVTVFGNLHQAQLGGVPGTYQLVRSFLNIK
LPAPLPGLQDGEVEGHPVWALIYYCMRCGDLLAASQVVNRAQHQLGEFKTWFEYMNSKDRRLSPATENKLRLHY
RRALRNNTDPYKRAVYCIIGRCDVTDNQSEVADKTEDYLWLKLNQVCFDDDGTSPPQDRLTLSQFQKQLLEDYGE
SHFTVNQQPFLYFQVLFLTAQFEAAVAFLFRMERLRCHAVHVALVLFELKLLKSSGQSAQLLSHEPGDPPCLRR
LNFVRLMLYTRKFESTDPREALQYFYFLRDEKDSQGENMFLRCVSELVIESREFDMILGKLENDGSRKPGVIDK
FTSDTKPIINKVASVAENKGLFEEAAKLYDLAKNADKVLELMNKLLSPVVPQISAPQSNKERLKNMALSIAERYR
AQGISANKFVDSTFYLLLDLITFFDEYHSGHIDRAFDIERLKLVLNQUESVEERVAAFRNFSDIEIRHNLSEVLL
ATMNILFTQFKRLKGTSPSSSRPQRVIEDRDSQLRSQARTLITFAGMIPYRTSGDTNARLVQMEVLMN

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FIGURE 307

CCCCAGCGAGGCTCCGGGAGCCCT¹GCCTGCGGGGGTCCGGGGACTCGAGCCGGCCTCCGCCCCCGGACGCACA
GCCAGCGTGGTCCCCGCGTGCAACGCGAGCGCCGGGGAGTGGCTCCTGCTTTGCCCTCGTGGGGGCGAGCCAA
GACCAGTCTGCAAACTCCATCCCGCCGGCTGGAAGAAGTCGCGGAGCCGGCACCAAACCCGAGCGTCTTCCCGC
GCGGATCCCGGGACTTAAAAAGCCGGGGCCACCCCGGCCAGGACGGGATGCGGGTCCGGTCCGGTTCGCTCTGCC
ATGAGCGGCGCCTCGCAGCCCCGCGGCCCGGCCCTGCTCTTCCCAGCCACCCGAGGCGTCCCGGCCAAACGCCTG
CTGGACGCCGACGACGCGGGCGGTGTGGCGGCCAAGTGCCCGCGCCTCTCCGAGTGCTCCAGCCCCCGGACTAC
CTCAGCCCCCCCCGGCTCGCCCTGCAGCCCGCAGCCCCCGCCTGCCGCTCCGGGGGCGGGCGGAGGCTCCGGGAGC
GCGCCGGGGCCCAGCCGCATCGCCGACTACCTGCTGCTGCCCTAGCCGAGCGCGAGCATGTGTCCCGGGCGCTG
TGCATCCACACTGGACGCGAGCTGCGCTGCAAGGTGTTTCCATTAAACACTACCAGGACAAAATCAGGCCTTAC
ATCCAGCTGCCATCGCACAGCAACATTACTGGCATTGTGGAAGTGATCCTTGGGGAACCAAGGCCTATGTCTTC
TTTGAGAAGGACTTTGGGGACATGCACTCCTATGTGCGAAGCCGGAAGAGGCTGCGGGAAGAGGAAGCCGCCCG
CTCTTCAAGCAGATTGTCTCCGCCGTCGCCACTGCCACCAGTCAGCCATCGTGCTGGGGGACCTGAAGCTTAGG
AAGTTTCGTCTTCTCCACGGAGGAGAGAACCAGCTTAGACTAGAAAGTCTAGAAGACACACATAATGAAGGGG
GAAGATGATGCTTTGTGACACAAACATGGCTGCCAGCCTACGTGAGCCCTGAGATCCTCAACACCCTGGGACC
TACTCCGGAAGGCTGCGGACGTTTGGAGCCTGGGGGTGATGCTCTACACCCTTCTGGTTGGACGATACCCCTTC
CATGACTCAGACCCAGTGCCCTTTTCTCCAAATTCGGCGTGGACAGTTCTGCATTCTGAGCACATTTCCCCC
AAAGCCAGGTGCCTCATTGCGAGCCTCTTGAGACGGGAGCCCTCCGAGAGACTCACTGCCCCCGAGATCCTACTG
CACCCCTGGTTTGTAGTCCGTCTTGGAACCCGGGTACATCGACTCAGAAATAGGAACTTCAGACCAGATTGTTCCA
GAGTACCAGGAGGACAGTGACATTAGTTCTTCTTCTGCTAATCCCCAAAACCTCAGAAAACCTCATAATTCTTAA
CACCTGGCATTTCATTCTTAAAGATGGACAGGCCCTTTGGCATGGTACCAACCAGATAATGACTGCATCAGGAT
GAAAGCTGCTGAACTCGGCATGGCGCCTCCTCTTCTGTTGGGATGAGTGACTTTATTGATTGAGCAGCATAT
GCTGTGATTGGCTGCCCTGCAATTTGTTTCCCTTAAGGAACCCCTACCAACTATCTCTGCTGGATTGGGAGTT
CCGCATCTTTTGTGGAGGGCAGAGTATGGACATCTTACACCCGGTGGTCAAGTGTGTAATAAACTTGAGCATTG
AATGGGAGAAAAAGCAAATCGCACAAATGACATATTTTGAAGTAATAACCGTATTTTTCACAGGGTGACAAATTGGG
CCAATAAATCTGCCATCTTTGAACTCATCTTTGGTGGCTAGACTGCTACGGCAGCTTCTCTGATGGGAAAGTTCC
TTTTTTGGCTTAACACTCACCTTTCTTACACTCACATTTACCAATGACTCTGCTCCGTTTTTGGAGCAGACTG
TTTTAAGTTGCTCAGGAGCCTGATGGAACCATGAACCGAGACTCTTCTCTGTTTCTGCTGCAAGACCTCATCTGCA
CTAATGCCTTCTCCCTGACCTTGACACTTCCCCCTTTAGCTATAAAAGCACTTACCAGCCGAACGTGGAACAGTA
TCACAAAAGATTCCATCTCCCAACGATTTTCAAGACTCTGAGCTCAGAGAGACTCCAGATTTTAAAAAATAATTTG
AGTGCTTGGAAACTATTAGCTTTTTAAGTTCCCTTCCAAATATGTTAGTACCTACCCTTTACTTTTTTCCCCAAGAC
CATCTCAGGGTGGAGCATTCTGTCTAAGAGAAGAAAGATAAGGAGGCTCCACCCACCTCTCCCAAGAGCAGACA
TTAAACATCTTTGTGCTTTGAAGAGAGTGAATTTTGGATAGTCTTGTGATTCTCAGACTAACTTCCAGAATTATA
CTTTAACCCTCCAGATATGGTCCGCCTTTGGCATTGTGTGTACATCTGCAGTTTTGCATGGTGGGTGTTAAT
ATTTCAAATGTGTGGTTTATGAATACGTCTGTATAATCGGCTTCTGGAGTGAAACAGCAAACCCCAAATCTTCAA
AGTTGGAAGGAACTTTAAAAATCATCCGGTCCAATCTCTTCTCTTCTGCCACCTCCCAAGGCAGAAATCCCC
TCTTCAGCTTCTTTTGTAGGTGGGAATCCAGCCTCTGTTAGATATGTCCAGAGATGGAAACTCACTCCCCTACAA
AAGATGGAGCTTAATGGAGAAATTGCAACTTTTATTAAAAAACAAATTCAGATGAAATATCAGTAACTGTCTTGG
ACAGTGCTGAAATCAGGTGGTTAAACGGGTAAACAAAAATATACTGTATTTTGAGAAATGGCACAAAAACAGGCAG
TCATCTTTAAGGGCTATGCCTAGGCAAACTACTAACATGCATTGTGAGAATGCCGTGTATACCTCACGTACTGTG
TACTTTGTACATATATTTTACCTTTTATACCTATGTTTCGATTTTGTGTTTTGTTTTGTTTCTGGCTTTGAGGCTTGT
TTGTTGTCTGTGTCTGTCTGAATAACCTGCGTGTCTAAAACCACGTGAAATGTGAATGATTATTGGCAATATTAC
CTTGACAGAATCATGGGACTTTGAGAAGAGGGAGGACAGAGGCCTCTGTGCGACTAACGCTCTCGTGGTTGCTCG
ACTGTTGTATCTGTGATACATTATCCGACTAAGGACTCTGGGCTGGCAGGGCCTTCTGCCGGGAAAGCTAGAAAC
ACTAGTTTCTTCTGTACATACGTGTATATATGTGAACAGTGAGATGGCCGTTTCTGACTTGTAGAGAAATTTTA
ATAAACCTGGTTTCGTA

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FIGURE 308

MRVGPVRSAMSGASQPRGPALLFPATRGVPAKRLLDADDAAAVAACPRLSECSSPPDYLSPPGSPCSPQPPAA
PGAGGGSGSAPGPSRIADYLLLPLAEREHVSRALCIHTGRELRCKVFPIKHYQDKIRPYIQLPSHSNITGIVEVI
LGETKAYVFFEKDFGDMHSYVRSRKRLREEEAARLFKQIVSAVAHCHQSAIVLGD LKLRKFVFSTEERTQLRLES
LEDTHIMKGEDDALSDKHGCPAYVSPEILNTTGTYSKAAADVWSLGVMLYTLLVGRYPFHDS DPSALFSKIRRGQ
FCIPEHISPKARCLIRSLLRREP SERLTAPEILLHPWFESVLEPGYIDSEIGTSDQIVPEYQEDSDISSFFC

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FIGURE 309

CCACGAGGGAGAACTAGTCTCGATTTTTTTTTTTTTTTTTCTTTGTTTTGTTTTCTGTATAAAAAAGGAC
CCCAATATAAAGGTAGGGAAAGGGACAAGAGGGAACATACCCCTTAGTGTAGAGAAATGGGAAGGAGAAGGAGA
AGCTCAAAAGGAGAGGTGGGAGGGGAATGTCATTAAGGCAGCAAAGTAATCTCTGTAGAAAGATGGAGGAGGAC
CCTCCATAGCCTCAGAGATAAAGGCAAAGATTGCCCTCTCAGTGTCCAGAAGGGAAATGGCAGCTTTTCTTCCTT
GGCAGCCACTCCATTGCTCACTCCGGATTACCTTCATCCTTATGTAGATAAGAGTGCTGCAGAGCTCGAAA
AGATTTCGCTTGTGTGGGTAAAGTCAGCATTTCCAGCAGCAGCTGTGCTCCCGACTCCTCCATCTCAGG
ACCGACTGCACTGGGCGGGGCCCTCTGGGGGGAAAGGCTCCACGGGGCAGGGATAACATCTCGAGGCCAGTC
ATCTCTGGAGGCAGCCCAATCAGGTCAAAGATTTTGCCCAACTGGTCGGCTTCAGAGTTTCCACAGAAGAGAGG
TCGACGAAACATCTCTGCAAAGATACAGCCAACACTCCACATGTCACAGGTGTTGCATATGTGGACTGCAG
ACTTCGGGAGCTCGGTACCAGAGTGTAACAACCACGGGTGTAAGTGCCATCTGGTAGCTGTAGATTCTGGC
CAAAGTCAGCCAGCTTGACTGTTCCACCACTTGTCACCAGAATGTTCTCTGGCTTCAGATCTCGGTGAAC
CAATTGGCATGAAGGAAATCTAGGCCTCTTAGAAACTGGCGCATCAGATCCTTGATCGTTTCGGCTGGCAA
TGGTGGGGGTGCCTTGTCCAGATATGTCCTTAGGTCTGGTCTACATGCTCAAACACCAGGGTTACCTTGAT
CCGGTCAGTTCGGGATGTGGCACAGACGTCCATCAGCCGGACAACATTGGGATGCTCAAAGCCTCCAGTCG
CTCAGTAAAGCCACCTCACGAACTGTGCTGATGGGAAGGCCTCCTCCACCTCCTCCTCCATTGGGGACTCTCAC
ACTCTTGAGGGCCACAAAGTGGCCACTGTGGGGATCACGGGCCTTGTAACACTGTCCCATAGGCACCGACACCAAT
TTCAGCCACTGGCTCATATCGAGAGGTAGCCATTCTCAGATCAAGGGAGACCTCAGCCAGCCCCGGGTGCTGT
GGGGCGGCCCCGTTATCGGGGCCCGGAGCCGGTTCTACGGCCCCATACCCGAGCTCGGTCCGGAGCAG

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FIGURE 310

MSTGVAYVDCRRTSGARYQSVTTTGVSAIW

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FIGURE 311

CGCGATTCTCAGGGATTGATCCGCCTCTTCAGGTAAGTTATCTTCCGGCCCCGTACCACTGTGCCACAGGCGCAG
CCCGCTTCCTCAGGTGCCCTATCCCGCGCAGAAGACCACGGCTTCACAGAGTGTTATTTAAGGGCGTGGCCAGCG
GAACATCCCCGCCCATTTCTGTGACGCACGGGGTGGCGCGCGTGGGACCCGAGGGGTGGGGCTGGGTTTAGTAGGA
GACCTGGGGCAAGGCCCCCTGTGGACGACCATCTGCCAGCTTCTCTCGTTCCGTCGATTGGGAGGAGCGGTGGCG
ACCTCGGCCTTCAGTGTTTTCCGACGGAGTGAATGCGGGCGGGCTGGGATGCTGCTGCTGGGCTTGCTGCAGGC
GGGTGGGTGCGTGCTGGGCCAGGCGATGGAGAAGGTGACAGGCGGCAACCTCTTGTCATGCTGCTGATCGCCTG
CGCCTTCACCCTCAGCCTGGTCTACCTGATCCGTCTGGCCGCCGGCCACCTGGTCCAGCTGCCCGCAGGGGTGAA
AAGTCCTCCATACATTTTTCTCCCCAATTCCATTCCCTGGGCATGCCATAGCATTGGGAAAAGTCCAATTGAATT
TCTAGAAAATGCATATGAGAAGTATGGACCTGTATTTAGTTTTACCATGGTAGGCAAGACATTTACTTACCTTCT
GGGGAGTGATGCTGCTGCACTGCTTTTTAATAGTAAAAATGAAGACCTGAATGCAGAAGATGTCTACAGTCGCCT
GACAACACCTGTGTTTTGGGAAGGGAGTTGCATACGATGTGCCTAATCCAGTTTTCTTGGAGCAGAAGAAAATGTT
AAAAAGTGGCCTTAACATAGCCCACTTTAAACAGCATGTTTTCTATAATTGAAAAAGAAACAAAGGAATACTTTGA
GAGTTGGGGAGAAAAGTGGAGAAAAAAATGTGTTGAAGCTCTTTCTGAGCTCATAATTTAACAGCTAGCCATTG
TTTGCATGGAAAGGAAATCAGAAGTCAACTCAATGAAAAGGTAGCACAGCTGTATGCAGATTTGGATGGAGGTTT
CAGCCATGCAGCCTGGCTCTTACCAGGTTGGCTGCCTTTGCCTAGTTTCAGACGCAGGGACAGAGCTCATCGGGA
AATCAAGGATATTTTCTATAAGGCAATCCAGAAACGCAGACAGTCTCAAGAAAAAATTGATGACATTCTCCAAAC
TTTACTAGATGCTACATACAAGGATGGGCGTCCTTTGACTGATGATGAAGTAGCAGGGATGCTTATTGGATTACT
CTTGGCAGGGCAGCATACATCCTCAACTACTAGTGCTTGGATGGGCTTCTTTTTGGCCAGAGACAAAACACTTCA
AAAAAATGTTATTTAGAACAGAAAACAGTCTGTGGAGAGAATCTGCCTCCTTTAACTTATGACCAGCTCAAGGA
TCTAAATTTACTTGATCGCTGTATAAAAGAAACATTAAGACTTAGACCTCCTATAATGATCATGATGAGAATGGC
CAGAACTCCTCAGACTGTGGCAGGGTATACCATTCCCTCCAGGACATCAGGTGTGTGTTTCTCCCACTGTCAATCA
AAGACTTAAAGACTCATGGGTAGAACGCCTGGACTTTAATCCTGATCGCTACTTACAGGATAACCCAGCATCAGG
GGAAAAGTTTGCCTATGTGCCATTTGGAGCTGGGCGTCATCGTTGTATTGGGGAAAATTTTGCCTATGTTCAAAAT
TAAGACAATTTGGTCCACTATGCTTCGTTTATATGAATTTGATCTCATTGATGGATACTTTCCCACTGTGAATTA
TACAACTATGATTCACACCCCTGAGAACCCAGTTATCCGTTACAAACGAAGATCAAAATGAAAAAGGTTGCAAGG
AACGAATATATGTGATTATCACTGTAAGCCACAAAGGCATTGCAAGAGAATGAAGTGTACAAAACAACCTCTTGTA
GTTTACTGTTTTTTTTAAGTGTGTAATTTCTAAAAGCCAGTTTATGATTTAGGATTTTGTTAACTGAATGGTTCTAT
CAAATATAATAGCATTGTGACACATTTTCTAATAGTTATGATACTTATACATGTGCTTTTCAGGAAGTTTCTTGGTG
AAACAATTGTTGAGGGGGGATCTAGGTAATTGGCAGATTCTAAATAATATAATTTCCAGATAGTAATTTTAAAGAG
TACTCATCGCTCTTGCCAAATAAGTTTCAAGGTTTCAAATCTTGGACTAGTCCTGCAAGGTATAAAGAATAAAAA
TCCCAGTGAGATACTTGGAACACAGTTTATTATTATTTATCTGGGCAATTATTGTGTGTGTGAGGATGGAAGG
GTAGGGAATAATCGAACATCTAAAGCCTTGAATAAGAGAATACTAATTGTTTTGGTATGATGATACTCAGAAATG
GAGATATTATAGGAAAAAGAAATCCTTTGGAATTTTAACTAAATCACTGCATATGGGAAATTAAGAGATCCAGG
ACCATATTTGATAAGAGTTCTTAAAAATAATGTAATTATTAATGCTAAAGACTGCTCATGTATCTTGATCTAATT
ACTAAATAAATTACATATTTTATTACCTGATAAATATGTATCTAGTTCTACAAGGTCACATTTATGTGGAAGTCC
AAAGTCAAGTCCTTAGGGGATAATTTTGTGTTTGGGCTCAGTTGTTCCCTGCTTCCTTTTTTTTTTTTTTTTTTT
TTGAGATGGAGTCTCGCTCTGTTGCCAGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGCATCCTCTGCCTC
CCGGGTTCAAGCAATTTCTCTGCCCTCAGCCTCCCAAGTAGTTGGGATTACAGGCACCTGCCACCATGCCTGGCTAA
TTTTTTGTATTTTATAGTAGAGACGGGGTTTCACTATGTTGGCTAGGCTGGTCTTGAACCTCTGAGCCTCGTGAG
TCCACCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCTTCCCTGCTTCCTCT
CTAGAATCCAATTAGGGATGTTTGTACTACTCATATTGATTAAACAGTTAAACAACTTTTTTCTTTTTTAAAT
GTGAGATCAGTGAACCTGTTTAAAGATAATCTGAAACAAGGTCTTGGGAGTAATAAAATTGGTCACATTCTG
TAAAGCACATTCTGTTTAGGAATCACTTATCTCAAATTGTAACCTCGGGGCCCTAACTATATGAGATGGCTGAAAA
AATACCACATCGTCTGTTTTCACTAGGTGATGCCAAAATATTTTGCTTTATGTATATTACAGTTCTTTTTTAAAC
ACTGGAAGACTCATGTTAACTCTAATTGTGAAGGCAGAATCTCTGCTAATTTTTTCAGATTAAATTTCTCTTTGA
AAAAAT

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FIGURE 312

MAAAAGMLLLGLLQAGGSVLGQAMEKVTGGNLLSMLLIACAFTLSLVYLIRLAAGHLVQLPAGVKSPPYIFSPIP
FLGHAIAFGKSPIEFLENAYEKYGPVFSFTMVGKTF TYLLGSDAAALLFNSKNEDLNAEDVYSRLTTPVFGKGVA
YDVPNPVFLEQKKMLKSGLNIAHFKQHVSIIEKETKEYFESWGESGEKNVFEALSELIILTASHCLHGKEIRSOL
NEKVAQLYADLDGGFSHAAWLLPGWLPLPSFRRRDRAHREIKDIFYKAIQKRRQSQEKIDDILQTLDDATYKDGR
PLTDDEVAGMLIGLLLAGQHTSSTTSAWMGFFLARDKTLQKKCYLEQKTVCGENLPPLTYDQLKDLNLLDRCIKE
TLRLRPPIMIMMRMARTPQTVAGYTIPPGHQVCVSPTVNQRLKDSWVERLDFNPDRLQDNPASGEKFAYVPFGA
GRHRCIGENFAYVQIKTIWSTMLRLYEFDLIDGYFPTVNYTTMIHTPENPVIRYKRRSK

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FIGURE 313

ACCGCCGACGCAGACCCCTCTCTGCACGCCAGCCGCCCCGCACCCACCATGGCCACAGTTCAGCAGCTGGAAGGA
AGATGGCGCCTGGTGGACAGCAAAGGCTTTGATGAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCGAAAA
ATGGGCGCAATGGCCAAGCCAGATTGTATCATCACTTGTGATGGTAAAAACCTCACCATAAAAACTGAGAGCACT
TTGAAAACAACACAGTTTTCTTGTACCCTGGGAGAGAAGTTTGAAGAAACCACAGCTGATGGCAGAAAACTCAG
ACTGTCTGCAACTTTACAGATGGTGCATTGGTTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACATAACAAGA
AAATTGAAAGATGGGAAATTAGTGGTGGAGTGTGTCATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTA
GAATTAAAAATTCCATCATCACTTTGGACAGGAGTTAATTAAGAGAATGACCAAGCTCAGTTCAATGAGCAAATCT
CCATACTGTTTCTTTCTTTTTTTTTTTCATTACTGTGTTCAATTATCTTTATCATAAACATTTTACATGCAGCTAT
TTCAAAGTGTGTTGGATTAAATTAGGATCATCCCTTTGGTTAATAAATAAATGTGTTTGTGCT

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FIGURE 314

MATVQQLEGRWRLVDSKGFDEYMKELGVGIALRKMGAMAKPDCIITCDGKNLTIKTESTLKTTQFSCTLGEKFEE
TTADGRKTQTVCNFTDGALVQHQEWDGKESTITRKLKDGKLVVECMNNVTCTRIYEKVE

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FIGURE 315

TGCGCGAAGCAGGGGGACAGCAAGGGACGCTCAGGCGGGGACCATGGCGGACGGCGGCTCGGAGCGGGCTGACGG
CGCATCGTCAAGATGGAGGTGGACTACAGCGCCACGGTGGATCAGCGCCTACCCGAGTGTGCGAAGCTAGCCAA
GGAAGGAAGACTTCAAGAAGTCATTGAAACCCTTCTCTCTCTGGAAGCAGACTCGTACTGCTTCCGATATGGT
ATCGACATCCCGTATCTTAGTTGCAGTAGTGAAGATGTGCTATGAGGCTAAAGAATGGGATTTACTTAATGAAAA
ATAGCTTTTGTCCAAAAGGCGGAGTCAGTTAAACAAGCTGTTGCCAAAATGGTTCAACAGTGTGTACTTA
JAGGAAATCACAGACCTTCCTATCAAACCTTCGATTAATTGATACTCTACGAATGGTTACCGAAGGCAAGAT
GTTTGAATTTGAGCGTGC GCGACTGACTAAACATTAGCAACTATAAAAGAACAAAATGGTGATGTGAAAGA
GAGCCTCCATTTTACAGGAGTTACAGGTGGAAACCTACGGGTCAATGGAAAAGAAAGAGCGAGTGGAATTTAT
GAGCAAAATGAGGCTCTGCCTAGCTGTGAAGGATTACATTGCAACACAAAATCATCAGCAAGAAAATTAACAC
ATTTTCCAGGAAGAAAATACAGAGAAATTAAGTTGAAGTACTATAATTTAATGATTGAGTGGATCAACA
GAGATCCTATTTGTCTATTTGTAAGCACTACAGAGCAATATATGATACTCCCTGTATACAGGCAGAAAAGTGA
ATGGCAGCAGGCTCTGAAGAGTGTTGTACTCTATGTTATCCTGGCTCCTTTTGACAATGAACAGTCAGATTT
ATCACCGAATAAGTGGTGACAAGAAGTTAGAAGAAATTCCCAAATACAAGGATCTTTTAAAGCTTTTACCAC
ATGGAGTTGATGCGTTGGTCCACACTTGTGAGGACTATGGAATGGAATTAAGAAAAGGTTCCCTTGAGAGTCC
TSCAACGGATGTTTTTGGTTCTACAGAGGAAGGTGAAAAAGGTGGAAAAGACTTGAAGAACAGAGTTGTTGAACA
TAATATTAGAATAATGGCCAAGTATTATACTCGGATAACAATGAAAAGGATGGCACAGCTTCTGGATCTATCTGT
TGATGAGTCCGAAGCCTTTCTCTCAAATCTAGTAGTTAAACAAGACCATCTTTGCTAAAGTAGACAGATTAGCAGG
AATTATCAACTTCCAGAGACCCAAGGATCCAAATAATTTATTAAATGACTGGTCTCAGAACTGAACCTATTAAT
GTCTCTGGTTAACAAAACCTACGCATCTCATAGCCAAAGAGGAGATGATACATAATCTACAATAAGGGTCTTAGTG
CTTTAGAAAAAAGTTAAATTGGAAGTCATTAAAAAAAGACTGTTATAATGGTGTATATGTTGGGGTTTTTTTTTC
TAAGCTTCTTTGTCTTAAATTTTAAATAGTGAATATGTTTGAGACTCCCTTTGACCTTTTCAGTTCCCCAAGTTC
ATTGTTAACTTTGCATTTGCAATTGGTGCAAAAATACAGATTTCTGTCTGCTGAATACACAAAAGTTGTGTCTAT
AACTTACCCAGATATGTTTTTCTATCATTTGAAACCTTTTAGCTACTGTTTGTGTTTCATTCAACTAACAAACAT
ATTCCAATAATAAAAGCAGTATATACATATTTCTCTACAGTTACCTCTGATTCTCAACATTTTGTGGGGTAG
TGATTTGGCAAGTGTTTTTTAAATAAAACAAATCTCATTGTAAAGTTATCAGTCATTTAGTAGAATAGAAAAGCA
ACATAGAGCATAACAAGACATTTGGGATAGAGTTGTGATTTGTGAAGAATTTGTACTTTGATATTGTGGCGGAAA
GTCTAGACTGAGTGTGTATGCTGGTAAACTGTAGACTTTTTTTTTTTTTTTTGTAGTCCGGCTGGTTCCAATCACA
GTAGCTTGATTGCTTTTACGCCCTCATCCTCTCACTTGATCAGTTGTTCAACAGAATCAGCTGACATAATTGACAC
AGTTTATTGGGTGTTAAGTCCGCTCTATAGGGATAGTGACTACTTTTTTTTTTTTTTTTTTTTGTCTCTCTTC
CTCTCCCCTTTCTTTATATGGGTTTAAATTTAACATAAAGTTGTTTTTATAAGGCTTATTTGTGGCTTTAACTTG
TAAGTCTGATTACATCATTATTGTTCCAAATTCATTATCTCTGTAGGAACCTTTTAGTTCCATTATATGAACACTG
GATAACCTAATTTTTTTTAAATGCTTTAAAAAAATGGCAAAAAGACGTCAGGCCACCCTCATAGTAAGTGGTGTAG
TATTAAATATTTTACGGAATTAAGTAGCTTGCTGTCAAAGAAACACCTGAGATGAATTGGTGTGAACGAAT
TTTGCAAGTTTAAATTTGATTTATTTTACAGAGAAAATAGAAAAACAATGTTAGAAGGTTATTTAAATGATACTTA
AATAAAGAAAGTGTGAGGTCTACTTTAAAAAAATTCAAATGAAGAGAAAAAGAAAAACAGCATTCTAGAAATGGC
ATTTCTCCTAATTAATTTTCCACTTAATGGAAGATTATCAATTGTCCTATTTTATGATCCAGGACTGAAGACAG
TTGTGGGATATCTGTCTATTTATCCTGTGAGTCATTGTGAATAATGACATACAGTACTGAAGTAATCTGATTTT
ATTCCTTTGGAAATTCAATGCATTGGTCACTAATAACATCAACATCTGCTATCACTTATCTTTTAAACTAAC
CAAAAAGGCTGGGATTACAGGCATGAGCCACTGCACCCAACCTCCTTTTCGTCTTTCTTTAACACACACTAGGC
TCTTTGTGATTATGATTGAGTCTATTTGTAAGTGTGCTCCAGTGACCAAATGCACTCGACTCGATCAGCTGT
TCATCCATTTCTGTGTTTTTCTGTCAAACATTAATCCAGCAAATATATGAGGTATTTACCAATTTATTTTCTTA
GTATTACAAAATAATTCATTAGCATAAAGTACAATAGTGAAATATTTGAGTTGTTCCGAACCTCAATTAATCCTG
TTTTACATTTACAGCCTAAAGCTGGCAATCAGGAGAAGAAGCACTTTGTTTTAAATGTGGAGAAGATAACACTTG
ATTCCATTTCAATGTCATTAGTGTATTAACCAGCAGGAGAGGTGATGAGCCATTTTCAAATGAAATACCTTTTA
TTTCCATATAATTTTTTATTTTAGAGTTCAATAGCTGTTTCTATGATTATCCTCAATTTCCATATGTTACTGAA
TCTGAAAAACATCTTTAAATTCAAACAGTTCCATTTTCTCTCTTGTAAGTGTTAAATGTGATAAAGTACATAT
TTTAAATGTTTTTCAGCTCTTGATATAGCAGCAATAAAAAACACTAATTTGTGGGTATTTAAGAAAACCTGGAGA
ATAAACTCATACTTTAAAGATC

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FIGURE 316

MADGGSERADGRIVKMEVDYSATVDQRLPECAKLAKEGRLQEVETLLSLEKQTRTASDMVSTSRILVAVVKMCY
EAKEWDLLNENIMLLSKRRSQLKQAVAKMVQCCTYVEEITDLP IKLRLIDTLRMVTEGKIYVEIERARLTKTLA
TIKEQNGDVKEAASILQELQVETYGSMEKKERVEFILEQMRLCLAVKDYIRTQIISSKKINTKFFQEENTEKLKLK
YYNLMIQLDQHEGSYLSICKHYRAIYDTPC IQAESEKWQQALKSVVLYVILAPFDNEQSDLVHRISGDKKLEEIP
KYKDLLKLFTTMELMRWSTLVEDYGMELRKGSLESPATDVF GSTEEGEKRWKDLKNRVVEHNIRIMAKYYTRITM
KRMAQLLDLSVDESEAFLSNLVVNKTIFAKVDRLAGIINFQRPKDPNNLLNDWSQKLNSLSLVNKTTHLIAKEE
MIHNLQ

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FIGURE 317

CTGCTCGCGGCCGCCACCGCCGGGCCCCGGCCGTCCCTGGCTCCCCCTCGCTCGAGAAGGGCAGGGCTTCTCA
GAGGCTTGCGGGGAAAAAAGAACGGAGGGAGGGATCGCGCTGAGTATAAAAGCCGGTTTTTCGGGGCTTTATCTAA
CTCGCTGTAGTAATTCAGCGAGAGGCAGAGGGAGCGAGCGGGCGGCCGGCTAGGGTGGAAGAGCCGGGCGAGCA
GAGCTGCGCTGCGGGCGTCTTGGGAAGGGAGATCCGGAGCGAATAGGGGGCTTCGCCTCTGGCCCAGCCCTCCC
TTGATCCCCAGGCCAGCGGTCCGCAACCCTTGCCGCATCCACGAACTTTGCCCATAGCAGCGGGCGGGCACT
TTGCACTGGAAC TTACAACACCCGAGCAAGGACGCGACTCTCCCGACGCGGGGAGGCTATTCTGCCCATTG
ACACTTCCCCGCGCTGCCAGGACCCGCTTCTCTGAAAGGCTCTCCTTGCACTGCTTAGACGCTGGATTTTTTT
CGGGTAGTGGAACAGCAGCCTCCCGCGACGATGCCCTCAACGTTAGCTTCACCAACAGGAACTATGACCTC
GACTACGACTCGGTGCAGCCGTATTTCTACTGCGACGAGGAGGAGAATTCTACCAGCAGCAGCAGCAGAGCGAG
CTGCAGCCCCCGCGCCCAGCGAGGATATCTGGAAGAAATTCGAGCTGCTGCCCCACCCCGCCCCGTGCCCTAGC
CGCCGCTCCGGGCTCTGCTCGCCCTCCTACGTTGCGGTACACCCCTTCTCCCTTCGGGGAGACAACGACGGCGGT
GGCGGGAGCTTCTCCACGGCCGACCAGCTGGAGATGGTGACCGAGCTGCTGGGAGGAGACATGGTGAACAGAGT
TTCATCTGCGACCCGGACGACGAGACCTTCATCAAAAACATCATCATCCAGGACTGTATGTGGAGCGGCTTCTCG
GCCGCCGCCAAGCTCGTCTCAGAGAAGCTGGCCTCCTACCAGGCTGCGCGCAAAGACAGCGGCAGCCCGAACCC
GCCCCGCGGCCACAGCGTCTGCTCCACCTCCAGCTTGTACCTGCAGGATCTGAGCGCCGCCCTCAGAGTGCATC
GACCCCTCGGTGGTCTTCCCCCTACCCCTCTCAACGACAGCAGCTCGCCCAAGTCTGCGCCTCGCAAGACTCCAGC
GCCTTCTCTCCGTCTCTCGGATTCTCTGCTCTCCTCGACGGAGTCTCCCCGAGGGCAGCCCCGAGCCCCCTGGTG
CTCCATGAGGAGACACCGCCCCACCAGCAGCGACTCTGAGGAGGAACAAGAAGATGAGGAAGAAATCGATGTT
GTTTCTGTGGAAAAGAGGCAAGGCTCCTGGCAAAAGGTCAGAGTCTGGATCACCTTCTGCTGGAGGCCACAGCAA
CCTCCTCACAGCCCACTGGTCTCAAGAGGTGCCACGTCTCCACACATCAGCACAACCTACGCAGCGCCTCCCTCC
ACTCGGAAGGACTATCCTGCTGCCAAGAGGGTCAAGTTGGACAGTGTGAGAGTCTGAGACAGATCAGCAACAAC
CGAAAATGCACCAGCCCCAGGTCTCGGACACCGAGGAGAATGTCAAGAGGCGAACACACAACGTCTTGAGCGC
CAGAGGAGGAACGAGCTAAAACGGAGCTTTTTTGGCCGTGACCGATCCCGGAGTTGGAAAACAATGAAAAG
GCCCCAAGGTAGTTATCCTTAAAAAAGCCACAGCATACATCCTGTCCGTCCAAGCAGAGGAGCAAAAGCTCATT
TCTGAAGAGGACTTGTGCGGAACGACGAGAACAGTTGAAACACAACTTGAACAGCTACGGAACCTTGTGCG
TAAGGAAAAGTAAGGAAAACGATTCTTCTAACAGAAATGTCTGAGCAATCACCTATGAACTTGTTTCAAATGC
ATGATCAAATGCAACCTCACAACCTTGCTGAGTCTTGAGACTGAAAGATTTAGCCATAATGTAACTGCCTCAA
ATTGGACTTTGGGCATAAAAGAACTTTTTTATGCTTACCATCTTTTTTTTTTCTTTAACAGATTTGTATTTAAGA
ATTGTTTTTAAAAATTTTAA

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FIGURE 318

MPLNVSF TNRNYDL DYDSVQPYFYCDEEENFYQQQQSELOPPAPSEDIWKKFELLPTPPLSPSRRSGLCSPSYV
AVTPFSLRGDNDGGGGSFSTADQLEMVTELLGGDMVNQSFICDPDDETFIKNII IQDCMWSGFSAAAKLVSEKLA
SYQAARKDSGSPNPARGHSVCSTSSLYLQDLSAAASECIDPSVVFPYPLNDSSSPKSCASQDSSAFSPSSDSLLS
STESSPQGSPEPLVLHEETPPTTSSDSEEEQEDEEEIDVVSVEKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRC
HVSTHQHNYAAPPSTRKDYPAAKRVKLDsvrvlrqisnnrkctsprssdteenvkrrthnvlerqrrnelkrsff
ALRDQIPELENNEKAPKVVLKKATAYILSVQAEQKLI SEEDLLRKRREQLKHKLEQLRNSCA

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FIGURE 319A

ACTCTGGAGTGGGAGTGGGAGCGAGCGCTTCTGCGACTCCAGTTGTGAGAGCCGCAAGGGCATGGGAATTGACGC
CACTCACCGACCCCCAGTCTCAATCTCAACGCTGTGAGGAAACCTCGACTTTGCCAGGTCCCCAAGGGCAGCGGG
GCTCGGCGAGCGAGGCACCCCTTCTCCGTCCCCATCCCAATCCAAGCGCTCCTGGCACTGACGACGCCAAGAGACT
CGAGTGGGAGTTAAAGCTTCCAGTGAGGGCAGCAGGTGTCCAGGCCGGGCCTGCGGGTTCCTGTTGACGTCTTGC
CCTAGGCAAAGGTCCCAGTTCCTTCTCGGAGCCGGCTGTCCCGGCCACTGGAAACCGCACCTCCCCGCAGCATG

GGCACCAGCCTCAGCCCGAACGACCCTTGGCCGCTAAACCCGCTGTCCATCCAGCAGACCACGCTCCTGCTACTC
CTGTCCGGTGCTGGCCACTGTGCATGTGGGCCAGCGGCTGCTGAGGCAACGGAGGCGGCAGCTCCGGTCCGCGCCC
CCGGGCCCCGTTTGCCTGGCCACTGATCGGAAACGCGCGCGGCTGGGCCAGGCGGCTCACCTCTCGTTTCGCTCGC
CTGGCGCGGCGCTACGGCGACGTTTTCCAGATCCGCCTGGGCAGCTGCCCATAGTGGTGCTGAATGGCGAGCGC
GCCATCCACCAGGCCCTGGTGACGAGGGCTCGGCCTTCGCCGACCAGGCGGCCTTCGCCTCCTTCCGTGTGGTG
TCCGGCGGCGCGCAGCATGGCTTTCCGGCCACTACTCGGAGCACTGGAAGGTGCAGCGGCGCGCAGCCCCACAGCATG
ATGCGCAACTTCTTACGCGCCAGCCGCGCAGCCGCCAAGTCTCGAGGGCCACGTGCTGAGCGAGGCGCGCGAG
CTGGTGGCGCTGCTGGTGCGCGGACGCGGCGGCTTCCTCGACCCGAGGCGGCTGACCGTCTGTGGCCGTG
GCCAACGTCATGAGTGCCGTGTGTTTCGGCTGCCGCTACAGCCACGACGACCCCGAGTTCGGTGAGCTGCTCAGC
CACAACGAAGAGTTCGGGCGCACGGTGGGCGCGGGCAGCCTGGTGGACGTGATGCCCTGGCTGCAGTACTTCCCC
AACCCGGTGCGCACCGTTTTTCGCGCAATTCGAGCAGCTCAACCGCAACTTCAGCAACTTCATCCTGGACAAGTTC
TTGAGGCACTGCGAAAGCCTTCGGCCCCGGGCGGCCCCCGCGACATGATGGACGCCTTTATCCTCTCTGCGGAA
AAGAAGGCGGCGCGGGGACTCGCACGGTGGTGGCGCGCGGCTGGATTTGGAGAACGTACCGGCCACTATCACTGAC
ATCTTCGGCGCCAGCCAGGACACCCCTGTCCACCGCGCTGCAGTGGCTGCTCCTCCTCTTACCAGGTATCCTGAT
GTGCAGACTCGAGTGCAGGCAGAATTGGATCAGGTCTGTTGGGAGGGACCGTCTGCCTTGATGGGTGACCAGCCC
AACCTGCCCTATGTCTCGCCTTCCTTTATGAAGCCATGCGCTTCTCCAGCTTTGTGCTGCTCACTATTCTCAT
GCCACCCTGCCAACACCTCTGTCTTGGGCTACCACATTCCCAAGGACACTGTGGTTTTTGTCAACCAGTGGTCT
GTGAATCATGACCCAGTGAAGTGGCCTAACCCGGAGAAGTTTGATCCAGCTCGATTCTTGGACAAGGATGGCCTC
ATCAACAAGGACCTGACCAGCAGAGTGATGATTTTTTTCAGTGGGCAAAAGCGGTGCATTGGCGAAGAAGTTTCT
AAGATGCAGCTTTTTCTTCTCATCTCCATCCTGGCTCACCAGTGCGATTTTCAGGGCCAACCCAAATGAGCCTGCG
AAAATGAATTCAGTTATGGTCTAACCATTAACCCAAAGTCATTTAAAGTCAATGTCACCTCTCAGAGAGTCCATG
GAGCTCCTTGATAGTGCTGTCCAAAATTTACAAGCCAAGGAAACTTGCCAATAAGAGCAAGAGGCAAGCTGAAA
TTTTAGAAATATTACATCTTCGGAGATGAGGAGTAAATTCAGTTTTTTTCCAGTTCCTTTTTGTGCTGCTTC
TCAATTAGCGTTTAAAGTGAGCATAAATCAACTGTCCATCAGGTGAGGTGTGCTCCATACCCAGCGGTTCTTCAT
GAGTAGTGGGCTATGCAGGAGCTTCTGGGAGATTTTTTTGAGTCAAAGACTTAAAGGGCCCAATGAATTATTATA
TACATACTGCATCTTGGTTATTTCTGAAGGTAGCATTCTTTGGAGTTAAATGCACATATAGACACATACACCCA
AACACTTACACCAAATACTGAATGAAGAAGTATTTTGGTAACCAGGCCATTTTTGGTGGGAATCCAAGATTGGT
CTCCCATATGCAGAAATAGACAAAAGTATATTAACAAAGTTTCAGAGTATATTGTTGAAGAGACAGAGACAAG
TAATTTAGTGTAAGTGTGTGATTGAAGGTGATAAGGGAAAAGATAAAGACCAGAAATTCCTTTTTACCTTTT
CAGGAAAATAACTTAGACTCTAGTATTTATGGGTGGATTTATCCTTTTGCCTTCTGGTATACTTCCTTACTTTTA
AGGATAAATCATAAAGTCAGTTGCTCAAAAAGAAATCAATAGTTGAATTAGTGAGTATAGTGGGGTTCCATGAGT
TATCATGAATTTTAAAGTATGCATTATTAATTTGTAAACTCCAAGGTGATGTTGTACCTCTTTTGCTTGCCAAA
GTACAGAATTTGAATTATCAGCAAAGAAAAAAGGCCAGCCAAGCTTTAAATTATGTGACCATAATGTACT
GATTTTCAGTAAGTCTCATAGGTAAAAAAGTCAACCAATAGTGTGAAATATATTACTTAACTGTCCGTAAG
CAGTATATTAGTATTATCTTGTTCAGGAAAAGGTTGAATAATATATGCCTTGTGTAATATTGAAAATTGAAAAGT
ACAACCTAACGCAACCAAGTGTGCTAAAAATGAGCTTGATTAATCAACCACCTATTTTTGACATGGAAATGAAGC
AGGGTTTTCTTTTCTTCACTCAAATTTTGGCGAATCTCAAATTAGATCCTAAGATGTGTTCTTATTTTTATAACA
TCTTTATTGAAATTCTATTTATAATACAGAATCTTGTTTTGAAAATAACCTAATTAATATATTAATAATTCCAAAT
TCATGGCATGCTTAAATTTTAACTAAATTTTAAAGCCATTCTGATTATTGAGTTCAGTTGAAGTTAGTGGAAT
CTGAACATTCTCCTGTGGAAGGCAGAGAAATCTAAGCTGTGTCTGCCCAATGAATAATGGAAAATGCCATGAATT
ACCTGGATGTTCTTTTTACGAGGTGACAAGAGTTGGGGACAGAACTCCCATTAACAAGTACCAAGTTTCTCTTCT
AGATGATTTTTTGAAGTTAATGCTGCTTTTTTGGAAAGTCAGAATCAGAAGATAGTCTTGGAAGCTGT
TTGAAAAGACAGTGAGATGAGGTGAGTTGTGTTTTTAAAGATGGCAATTACTTTGGTAGCTGGGAAAGCATAA

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FIGURE 319B

AGCTCAAATGAAATGTATGCATTACATTTAGAAAAGTGAATTGAAGTTTCAAGTTTTAAAGTTCATTGCAATTA
AACTTCCAAAGAAAGTTCTACAGTGTCTAAGTGCTAAGTGCTTATTACATTTTATTAAGCTTTTTGGAATCTTT
GTACCAAAATTTTAAAAAAGGGAGTTTTTTGATAGTTGTGTGTATGTGTGTGTGGGGTGGGGGGATGGTAAGAGAA
AAGAGAGAAACACTGAAAAGAAGGAAAGATGGTTAAACATTTTCCCACTCATTCTGAATTAATTAATTTGGAGCA
CAAAATTCAAAGCATGGACATTTAGAAGAAAGATGTTTGGCGTAGCAGAGTTAAATCTCAAATAGGCTATTAAAA
AAGTCTACAACATAGCAGATCTGTTTTGTGGTTTTGGAATATTAAAAAAGTTCATGTAATTTTATTTTAAAAATTC
ATAGCTGTACTTCTTGAATATAAAAAATCATGCCAGTATTTTTAAAGGCATTAGAGTCAACTACACAAAGCAGGC
TTGCCCAGTACATTTAAATTTTTTTGGCACTTGCCATTCCAAAATATTATGCCCCACCAAGGCTGAGACAGTGAAT
TTGGGCTGCTGTAGCCTATTTTTTTTAGATTGAGAAATGTGTAGCTGCAAAAATAATCATGAACCAATCTGGATGC
CTCATTATGTCAACCAGGTCCAGATGTGCTATAATCTGTTTTTACGTATGTAGGCCCAGTCGTCATCAGATGCTT
GCGGCAAAAGAAAGCTGTGTTTTATATGGAAGAAAGTAAGGTGCTTGGAGTTTACCTGGCTTATTTAATATGCTTA
TAACCTAGTTAAAGAAAGGAAAAGAAAACAAAAACGAATGAAAATAACTGAATTTGGAGGCTGGAGTAATCAGA
TTACTGCTTTAATCAGAAACCCCTCATTGTGTTTCTACCGGAGAGAGAATGTATTTGCTGACAACCATTAAGTCA
GAAGTTTTACTCCAGGTTATTGCAATAAAGTATAATGTTTATTAAATGCTTCATTTGTATGTCAAAGCTTTGACT
CTATAAGCAAATTGCTTTTTTCCAAAACAAAAAGATGTCTCAGGTTTGTGTTTGTGAATTTCTAAAAGCTTTCAT
GTCCCAGAACTTAGCCTTTACCTGTGAAGTGTTACTACAGCCTTAATATTTTCTAGTAGATCTATATTAGATCA
AATAGTTGCATAGCAGTATATGTTAATTTGTGTGTTTTTAGCTGTGACACAACTGTGTGATTAAAAGGTATACTT
TAGTAGACATTTATAACTCAAGGATACCTTCTTATTTAATCTTTTCTTATTTTGTACTTTATCATGAATGCTTT
TAGTGTGTGCATAATAGCTACAGTGCATAGTTGTAGACAAAGTACATTCTGGGGAAACAACATTTATATGTAGCC
TTTACTGTTTGATATACCAAATTAAAAAAAATTGTATCTCATTACTTATACTGGGACACCATTACCAAATAAT
AAAAATCACTTTCATAATCTTGAAAAAA

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FIGURE 320

MGISLSPNDPWPLNPLSIQQTILLLLSVLATVHVGQRLLRQRRRQLRSAPPGPFAWPLIGNAAVQAAHLSFA
FLARRYGDVFQIRLGSCPIVVLNGERAIHQALVQQGSADFADRFASFVRVSGGRSMAFGHYSEHWKVQRRRAHS
MMRNFFTRQPRSRQVLEGHVLSEARELVALLVRGSADGAFLDPRPLTVVAVANVMSAVCFGCRYSHDDPEFRELL
SHNEEFGRITVGAGSLVDVMPWLQYFPNPVRTVREFEQLNRFNFILDKFLRHCESLRPGAAPRDMMDAFILSA
AGDSHGGGARLDLENVPATITDIFGASQDTLSTALQWLLLLFTRYPDVQTRVQAELDQVVGRDRLPCMGDQ
VLAFLYEAMRFSSFPVTIPHATTANTSVLGYHIPKDTVVFVNQWSVNHDVPKWPENFDPARFLDKDG
QLTSRVMIFSVGKRRRCIGEELSKMQLFLFISILAHQCDFRANPNPAKMNFSYGLTIKPKSFKNVTLRES
PGLDSAVQNLQAKETCQ

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FIGURE 321A

CTCTCACACACACACACCCCTCCCCTGCCATCCCTCCCCGGACTCCGGCTCCGGCTCCGATTGCAATTTGCAACC
TCCGCTGCCGTGCGCGCAGCAGCCACCAATTGCCAGCGGTTTCAGGTGGCTCTTGCTCGATGTCCTAGCCTAGG
GGCCCCGGGGCCGACTTGCTGGGCTCCCTTACCCCTCTGCGGAGTCATGAGGGCGAACGACGCTCTGCAGGTG
CTGGGCTTGCTTTTCAGCCTGGCCCCGGGGCTCCGAGGTGGGCAACTCTCAGGCAGTGTGTCCTGGGACTCTGAAT
GGCCTGAGTGTGACCGGCGATGCTGAGAACCAATACCAGACACTGTACAAGCTCTACGAGAGGTGTGAGGTGGTG
ATGGGGAACCTTGAGATTGTGCTCACGGGACACAATGCCGACCTCTCCTTCCTGCAGTGGATTTCGAGAAGTGACA
GGCTATGTCTCTGCTGGCCATGAATGAATTCTCTACTCTACCATTGCCCAACCTCCGCGTGGTGCGAGGGACCCAG
GTCTACGATGGGAAGTTTGCCATCTTCGTCACTGTTGAACATAACACCAACTCCAGCCACGCTCTGCGCCAGCTC
CGCTTGACTCAGCTCACCGAGATTCTGTGAGGGGGTGTATATTGAGAAGAACGATAAGCTTTGTACATGGAC
ACAATTGACTGGAGGGACATCGTGAGGGACCGAGATGCTGAGATAGTGGTGAAGGACAATGGCAGAAGCTGTCCC
CCCTGTCTATGAGTTTGCAAGGGGGCGATGCTGGGGTCTGGATCAGAAGACTGCCAGACATTGACCAAGACCATC
TGCTGCTCCTCAGTGAATGGTCACTGCTTTGGGGCCCAACCCCAACAGTGTGCTGATGAGTGTGCCGGGGG
TGCTCAGGCCCTCAGGACACAGACTGCTTTGCCCTGCCGGCACTTCAATGACAGTGGAGCCTGTGTACCTCGCTGT
CCACAGCCTCTTGCTCTACAACAAGCTAACTTTCCAGCTGGAACCCAATCCCCACACCAAGTATCAGTATGGAGGA
GTTTGTGTAGCCAGCTGTCCCCATAACTTTGTGGTGGATCAAACATCCTGTGTGAGGGCCTGTCTCCTGACAAG
ATGGAAGTAGATAAAAAATGGGCTCAAGATGTGTGAGCCTTGTTGGGGGACTATGTCCCAAAGCCTGTGAGGGAACA
GGCTCTGGGAGCCGCTTCCAGACTGTGGACTCGAGCAACATTGATGGATTTGTGAAGTGCACCAAGATCCTGGGC
AACGTGGACTTTCTGATCACCGGCCTCAATGGAGACCCCTGGCACAAGATCCCTGCCCTGGACCCAGAGAAGCTC
AATGTCTTCCGGACAGTACGGGAGATCACAGGTTACCTGAACATCCAGTCTGGCCGCCCCACATGCACAACCTTC
AGTGTTTTTTCCAATTTGACAACCATTGGAGGCAGAAGCCTCTACAACCGGGGCTTCTCATTGTTGATCATGAAG
AACTTGAATGTCACATCTCTGGGCTTCCGATCCCTGAAGGAAATTAGTGCTGGGCGTATCTATATAAGTGCCAAT
AGGCAGCTCTGCTACCACCCTCTTTGAACTGGACCAAGGTGCTTCGGGGGCTTACGGAAGAGCGACTAGACATC
AAGCATAATCGGCCGCGCAGAGACTGCGTGGCAGAGGGCAAAGTGTGTGACCCACTGTGCTCCTCTGGGGGATGC
TGGGGCCCAGGCCCTGGTCACTGCTTGTCTGCTGCGAAATTATAGCCGAGGAGGTGTCTGTGTGACCCACTGCAAC
TTTCTGAATGGGGAGCCTCGAGAATTTGCCCATGAGGCCGAATGCTTCTCCTGCCACCCGGAATGCCAACCCATG
GGGGGCACTGCCACATGCAATGGCTCGGGCTCTGATACTTGTGCTCAATGTGCCCATTTTCGAGATGGGGCCAC
TGTGTGAGCAGCTGCCCCCATGGAGTCTTAGGTGCCAAGGGCCCAATCTACAAGTACCCAGATGTTTCAAGATGAA
TGTGCGCCCTGCCATGAGAAGTGCACCCAGGGGTGTAAAGGACCAGAGCTTCAAGACTGTTTAGGACAAACACTG
GTGCTGATCGGCAAAACCCATCTGACAATGGCTTTGACAGTGATAGCAGGATTGGTAGTGATTTTCATGATGCTG
GGCGGCACTTTTCTCTACTGGCGTGGGCGCCGATTGAGAATAAAAGGGCTATGAGGCGATACTTGAACGGGGT
GAGAGCATAGAGCCTCTGGACCCAGTGAGAAGGCTAACAAAGTCTTGCCAGAATCTTCAAAGAGACAGAGCTA
AGGAAGCTTAAAGTGCTTGGCTCGGGTGTCTTTGAACTGTGCACAAAGGAGTGTGGATCCCTGAGGGTGAATCA
ATCAAGATTCCAGTCTGCATTAAAGTCATTGAGGACAAGAGTGGACGGCAGAGTTTTCAAGCTGTGACAGATCAT
ATGCTGGCCATTGGCAGCCTGGACCATGCCACATTGTAAGGCTGCTGGGACTATGCCAGGGTCTCTCTGCAG
CTTGCTCACTCAATATTTGCCCTCTGGGTTCTCTGCTGGATCATGTGAGACAACACCGGGGGGCACTGGGGCCACAG
CTGCTGCTCAACTGGGGAGTACAAATTGCCAAGGGAATGTACTACCTTGAGGAACATGGTATGGTGCATAGAAAC
CTGGCTGCCCCGAAACGTGCTACTCAAGTCACCCAGTCAGGTTTCAGGTGGCAGATTTTGGTGTGGCTGACCTGCTG
CCTCCTGATGATAAGCAGCTGCTATACAGTGAGGCCAAGACTCCAATTAAGTGGATGGCCCTTGAGAGTATCCAC
TTTGGGAAATACACACACCAGAGTGATGTCTGGAGCTATGGTGTGACAGTTTGGGAGTTGATGACCTTCGGGGCA
GAGCCCTATGCAGGGCTACGATTGGCTGAAGTACCAGACCTGCTAGAGAAGGGGGAGCGGTTGGCACAGCCCCAG
ATCTGCACAATTGATGTCTACATGGTGATGGTCAAGTGTGGATGATTGATGAGAACATTCGCCCAACCTTTAAA
GAACTAGCCAATGAGTTACCAGGATGGCCCCGAGACCCACCACGGTATCTGGTCATAAAGAGAGAGAGTGGGCCCT
GGAATAGCCCTGGGGCAGAGCCCCATGGTCTGACAAACAAGAAGCTAGAGGAAGTAGAGCTGGAGCCAGAATA
GACCTAGACCTAGACTTGGAAGCAGAGGAGGACAACCTGGCAACCACCACTGGGCTCCGCCCTCAGCCTACCA
GTTGGAACACTTAATCGGCCACGTGGGAGCCAGAGCCTTTTAAGTCCATCATCTGGATACATGCCCATGAACCAG
GGTAATCTTGGGGGGTCTTGCCAGGAGTCTGCAGTTTCTGGGAGCAGTGAACGGTGCCCCGCTCCAGTCTCTCTA
CACCCAATGCCACGGGGATGCCTGGCATCAGAGTCATCAGAGGGGCATGTAACAGGCTCTGAGGCTGAGCTCCAG
GAGAAAGTGTCAATGTGTAGAAGCCGGAGCAGGAGCCGAGCCACGGCCACGCGGAGATAGCGCCTACCATTCC

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FIGURE 321B

CAGCGCCACAGTCTGCTGACTCCTGTTACCCCACTCTCCCCACCCGGGTTAGAGGAAGAGGATGTCAACGGTTAT
GTCATGCCAGATACACACCTCAAAGGTACTCCCTCCTCCCGGGAAGGCACCCTTTCTTCAGTGGGTCTCAGTTCT
GTCCTGGGTACTGAAGAAGAAGATGAAGATGAGGAGTATGAATACATGAACCGGAGGAGAAGGCACAGTCCACCT
CATCCCCCTAGGCCAAGTTCCCTTGAGGAGCTGGGTATGAGTACATGGATGTGGGGTCAGACCTCAGTGCCTCT
CTGGGCAGCACACAGAGTTGCCCACTCCACCCTGTACCCATCATGCCCACTGCAGGCACAACCTCCAGATGAAGAC
TATGAATATATGAATCGGCAACGAGATGGAGGTGGTCCTGGGGGTGATTATGCAGCCATGGGGGCCTGCCAGCA
TCTGAGCAAGGGTATGAAGAGATGAGAGCTTTTCAGGGGCCTGGACATCAGGCCCCCATGTCCATTATGCCCGC
CTAAAACTCTACGTAGCTTAGAGGCTACAGACTCTGCCTTTGATAACCCCTGATTACTGGCATAGCAGGCTTTTC
CCCAAGGCTAATGCCCAGAGAACGTAACCTCTGCTCCCTGTGGCACTCAGGGAGCATTTAATGGCAGCTAGTGCC
TTTAGAGGGTACCGTCTTCTCCCTATTCCCTCTCTCTCCAGGTCCCAGCCCCCTTTCCCAGTCCCAGACAATT
CCATTCAATCTTTGGAGGCTTTTAAACATTTTGACACAAAATTCTTATGGTATGTAGCCAGCTGTGCACTTTCTT
CTCTTTCCCAACCCAGGAAAGGTTTTCCTTATTTTGTGTGCTTTCCAGTCCCATTCTCAGCTTCTTCACAGG
CACTCCTGGAGATATGAAGGATTACTCTCCATATCCCTTCCTCTCAGGCTCTTGACTACTTGGAAGTAGGCTCTT
ATGTGTGCCTTTGTTTCCCATCAGACTGTCAAGAAGAGGAAAGGGAGGAAACCTAGCAGAGGAAAGTGTAATTT
GGTTTATGACTCTTAACCCCTAGAAAGACAGAAGCTTAAATCTGTGAAGAAAGAGGTTAGGAGTAGATATTGA
TTACTATCATAATTCAGCACTTAACCTATGAGCCAGGCATCATACTAACTTCACCTACATTATCTCACTTAGTCC
TTTATCATCCTTAAACAATTCTGTGACATACATATTATCTCATTTTACACAAAGGGAAGTCGGGCATGGTGGCT
CATGCCGTGAATCTCAGCACTTTGGGAGGCTGAGGCAGAAGGATTACCTGAGGCAAGGAGTTTGAGACCAGCTTA
GCCAACATAGTAAGACCCCCATCTC

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FIGURE 322

MRANDALQVLGLLFSLARGSEVGNSQAVCPGTLNGLSVTGDAENQYQTLYKLYERCEVVMGNLEIVLTGHNADLS
FLQWIREVTGYVLVAMNEFSTLPLPNLRVVRGTQVYDGKFAIFVMLNYNTNSSHALRQLRLTQLTEILSGGVYIE
KNDKLCHMDTIDWRDIVRDRDAEIVVKDNGRSCPPCHEVCKGRCWGPSEDCQTLTKTICAPQCNGHCFGPNPNQ
CCHDECAGGCSGPQDTCFACRHFNDSGACVPRCPQPLVYNKLTQLEPNPHTKYQYGGVCVASCPHNFVVDQTS
CVRACPPDKMEVDKNGLKMCCEPCGGLCPKACEGTGSGSRFQTVDSNIDGFVNCTKILGNLDFLITGLNGDPWHK
IPALDPEKLNVFRTVREITGYLNIQSWPPHMHNFVFSNLTTIGGRSLYNRGFSLIMKNLNVTSLGFRSLKEIS
AGRIYISANRQLCYHHSNLNWKVLRGPTTEERLDIKHNRPRRDCVAEGKVCDPLCSSGGCWGP GPQCLSCRNYSR
GGVCVTHCNFLNGEPREFAHEAECFSCHPECQPMGGTATCNGSGSDTCAQCAHFRDGP HCVSSCPHGVLGAKGP I
YKYPDVQNECRPCHENCTQGCKGPQLQDCLGQTLVLIGKTHLTALTVIAGLVVIFMMLGGTFLYWRGRRIQNK
AMRRYLGERGESIEPLDPSEKANKVLARIFKETELRKLKVLGSGVFGTVHKGVWVIEGESIKIPVCIKVIEDKSGR
QSFQAVTDHMLAIGSLDHAHIVRLGLCPGSSQLVLTQYLPGLSLLDHVRQHRGALGPQLLLNWGVQIAKGMYYL
EEHGMVHRNLAARNVLLKSPSQVQVADFGVADLLPPDDKQLLYSEAKTPIKWMALESIHF GK YTHQSDVWSYGV
VWELMTFGAEPYAGLRLAEVDPDLLEKGERLAQPQICTIDVYVMVMKCMIDENIRPTFKELANEFTRMARDPPRY
LVIKRESGPGIAPGPEPHGLTNKKLEEVELEPELDDLDDLEAEEDNLATTTLGSALSPLVGTNLNRPRGSQSLLSP
SSGYMPMNQGNLGGSCQESAVSGSSERCPRPVSLHPMPRGCLASESSEGHVTGSEAELOEKVSMCRSRSRSPR
PRGDSAYHSQRHSLTPTVTPLSPPGLEEDVNGYVMPDTHLKGTPSSREGTLSSVGLSSVLGTEEEDEDEEYEM
NRRRRHSPPHPPRPSSLEELGYEYMDVGSDLSASLGSTQSCPLHPVPIMPTAGTTPDEDYEYMNRRQDGGGPGGD
YAAMGACPASEQGYEEMRAFAQGPGHQAPHVHYARLKTLSLEATDSAFDNP DYWHSRLFPKANAQRT

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FIGURE 323A

GTCGGCCGTCCCCTTTAATTTTTAAATACACGGTCCCCTCTTTTCTCTGGGGGGGCAAGCAAGAAATCAAAGAA
GGAGGAGACAAGCCGTCAATTTTCTCCAAAACAAACCCACCAGGGCAATTTGGTCTCGGGGTAGGGGGGAGACGGG
GTGATTGCAAATTATTCCAGGACGAGATCCAGTTCTCCAGCGGGAAAGGGGCAAGGAACGCCGCGCTTGAAG
GGCCAGGGTACGACGTCCCCTTGACGCGCCCGCAGGACCCCGCAAGCTCGTGCCGGCGAAATCGGAGACCGCC
GATCTGTCTCGTTCTCTCTGACGTCTGGCTGCATTTCGGAGGAAGACCTGGGGCGCGAGCGAGCGGCGACAGC
ATGAGCCTGTGCTGACCTCCGCGCGGGCGGGCCGAGCCAGGGCTTTGTGCGGTACCTGCGCCAGCCCGCGCCG
CAACTCTGTGCCCAGCTTTTGCAATCTTTTGTGTCAGCGCTGACCGCACCAAGTTAAATGCTCCCTTGCAATTTT
TCTTTTTTTTGTGTTGTTGTTTAAATTTTTGGAGAGCTCGCGATCTTGGAAGCCCTCAGACGCCATCTACAGTTA
AAACGTAGGTAAGTGCCTCTCCCGCACCCCCCTTACACGCCCCCACCTTTCCACCAAAAAAGGGGTGC
AGCGCGGATTCTGGCTGCCGTGCGTCGCCAGCCGGTAGACCCGTGCTTGTTCCTTTCTCTTTTGTGTTGGCTTC
TAACGCGTTGGGACTGAGTCGCCGCGGTGAGCTCCCGAAGACTGCACAACTACCGCGGGCTCCTCCGCCCGGT
CTGCGATTTCGGAAGCCGGCTGGGGGTGCGCTCGGGAGCCCTGCGCTGCAGCTCCGCACCTTAGCAGCCCGGTA
CTCATCCAGATCCACGCCGGGGACACACACAGAGTAATAAAGTGGCGGATTCTGCACATCGCCGACTGCT
TTGGGGTAACAAAAAGACCCGAGTTGCCTGCCGACCGAGGACCCCGGGAGCCGGGCTCGGAGCAGACGAGGTAT
CCGGCGGCGCCCATTTGGGGGCTTCTAACTCTTTCTCCACGACGCCCCCTCTTGTCCCCCTCCCCCTCTCGCTCCC
TTTTAAATCAGTGGCACCGAGGCGCTGCAGCCGCACTCGCCAGCGACTCATCTCTCCAGCGGGTTTTTTTTTG
TTTGTGCTGTGCGATCCTCACACTCATGAACATACACAGGTCTACCCCATCACATAGCGAGATATGGGAGATC
GCGGAACAAAACCCAGGATTTGGAAGAGTTGTGCTCTATAAGGTCCGCGGAGCCAGCCAGAGTTTCAGCCCGAA
CCTCGGCTCCCCGAGCCCGCCGAGACTCCGAACCTTGTCGCATTGCGTTTCTTGTATCGGGAAATACCTTATTGTT
GGAACCTCTGGAGGGAGACCACGTTTTTTCGTGCCGTGCATCTGCACAGCGGAGAGGAGCTGGTGTGCAAGGTGTT
TGATATCAGTGCTACCAGGAATCCCTGGCACCGTGCTTTTGCTGTCTGCTCATAGTAACATCAACCAAATCAC
TGAAATTATCCTGGGTGAGACCAAGCCTATGTGTTCTTTGAGCGAAGCTATGGGGACATGCATTCTTTCGTCCG
CACCTGCAAGAAGCTGAGAGAGGAGGAGGCAGCCAGACTGTTCTACCAGATTGCCTCGGCAGTGGCCCACTGCCA
TGACGGGGGGCTGGTGTGCGGGACCTCAAGCTGCGGAAATTCATCTTTAAGGACGAAGAGAGGACTCGGGTCAA
GCTGGAAGCCTGGAAGACGCTACATTCTGCGGGGAGATGATGATTCCCTCTCCGACAAGCATGGCTGCCCGGC
TTACGTAAGCCAGAGATCTTGAACACCAGTGGCAGCTACTCGGGCAAAGCAGCCGACGTGTGGAGCCTGGGGGT
GATGCTGTACACCATGTTGGTGGGGCGGTACCCTTTCCATGACATTGAACCCAGCTCCCTCTTCAGCAAGATCCG
GCGTGGCCAGTTCAACATTCCAGAGACTCTGTGCCCCAAGCCAAGTGCCTCATCCGAAGCATTCTGCGTCGGGA
GCCCTCAGAGCGGCTGACCTCGCAGGAAATCTGGACCATCCTTGTTTCTACAGATTTTAGCGTCTCGAATTC
AGCATATGGTGCTAAGGAAGTGTCTGACCAGCTGGTGCCGACGTCAACATGGAAGAGAACTGGACCCTTTCTT
TAACTGAGCTCATGCCCCACGGAGACTTAGCAGGTTCCAGGAGTGAGCGAGGGCAGCGGAAAGGAGTTCTTCCGG
GGGACACGAATTGCCTGGCTGAGTAGCAAGAAAGACACACTCTTAAGTTTCTTGTTTCAGAGCAGGAAACCTTC
AAGGAGCTGACTGACCACGTAGCATGGGGGCAAGAGGCGTGGGATGGGGATTGGGGTGAGATGGATGGGAGCCCG
CTGGAGCTTGTCTTCCCTAACATAGCCTGGGAGACCACCCCTTGCCACTTGGGCCACTTCCGCCTACCCCACTT
TCATTTTGTTCAAAATAGTTGCAGATCCTGACAGAATCAAACCTCTCTGCCTCAAACACACATCCTGGCATCGC
ACTGTTAGCATTTAACTTCTTGTAGGATTTCAGGGAAGGAACAGTTGGCCAAGAATTTTTTTCTTTTAAACAAG
CCAACCACCTAGCTGGTAATTAATGAGGTTCACTTAAAAAATAATTCGGTGCACACAGACTGACATGAAACCTG
GGTGCTACAGTAAAGAAAAACAAAAGTCCAGTTTGTGTCTCTTAATCGCTCACTTCAACTCATTTCTTCTAAATA
AACTATTTAATATCCTGGTCAGGAAATGACATGTTAATGCTTTGCTCCCTGAAGGGGGAAAAAATCTGTCTTTA
ACAAGCTATTCTGTTTTGTGTCAATTGGGTCCGTGGCAAGGAAGCTATTAGGAAGTCAAACGGTCCAGGATGCAT
TACCTGCTAATCCTTAGGTTTAAAGGGGGAAAGAAAAGGGAAGAAGAAAGGAAAAGAGAAATCCAACTCCTTTT
CATGTTTTGCTTTTGAACAATGAGGTTTGTGTGACAGGCATTCTCTTTGCTGAGATGATAGCAATGGCCTGAG
ATTTTAGCAAGCTCCTGGAGTCTGATGCTTTTGCAGTACTCTGATCGCAACTAAACATTTGTCTTTGTTTTATTA
GAAACTAGTGAAACAAAGCAGGTTGTCCACATGTATAAAATACAGGGCAGCTATTTAGTTTTCTTTACAGAGAA
TGATCCTTTTAAAGCTTGTAAGGCCCTCTGGTTTGGACAAAACCCCTCAGTAGAGACAAGCGGGAAGGATAATTA
GCTGAAAGCTATGATGATATAAATAAAAACAGCTCTCTATCCCAATACGCACCTTTGTATTTTCAAGAACTCTTC
TATTTATTAAGGAAAATGTCACATTGTGATGTATTAAGCCAGTACTTCAATTACGGGTTGACTTGGGATGACATA
TTACATGCTGTAGTTAACATTTATAATCTTTTTCTTTGTTTGGATTTCTGTCTCTGAAATAACCTTTTACTT

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FIGURE 323B

GGCTTTTCTAGATAGCTTTATTTGATTTGAGTGGCAAATGTTTTTTATTACGGCTTTTCTATTGCTGTATGAT
ACAGAACTCTTTTGGCATAAATATTTGTGTTCCCAGTACCTCACTTGTTTCGGATTGACTGCCTGTATATGTTTT
GTGAAATGGTCCTGTTTTTGGGTAGGTGACACGTGGACTCTAGTATGTAAATGTTACTTGAATCTGTGCTTCATA
ATAGTGTGTGGCATGTATGTGCAGACTCTTGGATGCTTTATGCCTGCGCACCAGGAGCCCTGTCCTCACGTTCCC
AGGAGGGCGGCTTCACCCTTCGTAACCAGGAGACAAGGCGGCCATGGATTGCCCCTTGATTCTATTTTGCTAATG
GAAGATAGAAAGGAGAGAAGGTTTTTTTTTTTTTTTAAACATTCTGAAGATGGTGCTGTGTCAAGAAGGACCTTTT
TTTTCCCTCTCCCTATTTTTTAAGTACCTTGGAGGAGAGAGGTTGGTGACATGCATGGTGGGGATCTATGGC
CTCTGGTGCTTTGTCCTGTATTTGGTTTAATGTTTTTGTCTAATCTCTTCAATCAATAAAATTGTGCGTATTTA
ACTAAAAAAAAAAAAAAAAAAAA

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FIGURE 324

MNIHRSTPITIARYGRSRNKTQDFEELSSIRSAEPSQSFSPNLGSPSPPETPNLSHCVSCIGKYLLLEPLEGDHV
FRAVHLHSGEELVCKVFDISCYQESLAPCFCLSAHSNINQITEIILGETKAYVFFERSYGDMHSFVRTCKKLREE
EAARLFYQIASAVAHCHDGGVLRLDLKLRKFIFKDEERTRVKLESLEDAYILRGDDDSLSDKHGCPAYVSPEILN
TSGSYSGKAADVWSLGVMLYTMLVGRYPFHDIEPSSLFSKIRRGQFNIPETLSPKAKCLIRSILRREPSERLTSQ
IPWFSTDFSVSNSAYGAKEVSDQLVPDVNMEENLDPFFN

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FIGURE 325

CGAGGTTTCGGGTCGTGGGGCGGAGGGAAGAGCGGGCGGGCGGGAGGCGCCGGCGCCAGACGCGGAGGGAAGGAGC
TACGAGTAGCCGCCGAGAGGCCGCGGAGCCAGCGACGACCGACCCAGCCGAGCCGCCGCCGCCGCCGCCGCCA
TGGCGGCCGCCAAGGACACTCATGAGGACCATGATACTTCCACTGAGAATACAGACGAGTCCAACCATGACCCTC
AGTTTGAGCCAATAGTTTCTCTTCCTGAGCAAGAAATTAAAACACTGGAAGAAGATGAAGAGGAACTTTTTAAAA
TGCGGGCAAACTGTTCCGATTTCCTCTGAGAACGATCTCCCAGAATGGAAGGAGCGAGGCACTGGTGACGTCA
AGCTCCTGAAGCACAAGGAGAAAGGGGCCATCCGCCTCCTCATGCGGAGGGACAAGACCCTGAAGATCTGTGCCA
ACCACTACATCACGCCGATGATGGAGCTGAAGCCCAACGCAGGTAGCGACCGTGCCTGGGTCTGGAACACCCACG
CTGACTTCGCCGACGAGTGCCCCAAGCCAGAGCTGCTGGCCATCCGCTTCCTGAATGCTGAGAATGCACAGAAAT
TCAAAACAAAGTTTGAAGAATGCAGGAAAGAGATCGAAGAGAGAGAAAAGAAAGCAGGATCAGGCAAAAATGATC
ATGCCGAAAAAGTGGCGGAAAAGCTAGAAGCTCTCTCGGTGAAGGAGGAGACCAAGGAGGATGCTGAGGAGAAGC
AATAAATCGTCTTATTTTATTTTCTTTTCCTCTCTTTCCTTTCTTTTTTAAAAAATTTTACCCTGCCCTCTT
TTTCGGTTTGTTTTTATTCTTTTCATTTTACAAGGGACGTTATATAAAGAACTGAACTC

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FIGURE 326

MAAAKDTHEDHDTSTENTDESNHDPQFEP IVSLPEQEIKTLEDEEEELFKMRAKLFRFASENDLPEWKERTGDV
KLLKHKEKGAIRLLMRRDKTLKICANH YITPMELKPNAGSDRAWVWNTHADFADECPPELLAIRFLNAENAQK
FKTKFEECRKEIEEREKKAGSGKNDHAEKVAEKLEALSVKEETKEDAEKQ

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FIGURE 327

GGGGGCGTGGCCCCGAGAAGGCGGAGACAAGATGGCCGCCCATAGCGCTTGGAGGACCTAAGAGGCGGTGGCCGG
GGCCACGCCCCGGGCAGGAGGGCCGCTCTGTGCGCGCCCGCTCTATGATGCTTGCGCGCGTCCCCCGCGCGCCGC
GCTGCGGGCGGGGCGGGTCTCCGGGATTCCAAGGGCTCGGTTACGGAAGAAGCGCAGCGCCGGCTGGGGAGGGGG
CTGGATGCGCGCGCACCCGGGGGAGGCCGCTGCTGCCCGGAGCAGGAGGAGGGGGAGAGTGC GGCGGGCGGCAG
CGGCGCTGGCGGCGACTCCGCCATAGAGCAGGGGGGCCAGGGCAGCGCGCTCGCCCCGTCCCCGGTGAGCGGCGT
GCGCAGGGAAGGCGCTCGGGGCGGCGGCCGTGGCCGGGGCGGTGGAAGCAGGCGGGCCGGGGCGGCGGCGTCTG
TGGCCGTGGCCGGGGCCGGGGCCGTGGCCGGGGACGGGGACGGGGCCGGGGCCGGGGCCGGGCCGTCCCCGAG
TGGCGGCAGCGGCCCTTGGCGGCGACGGCGGCGGCTGCGGCGGCGGCGGCAGCGGTGGCGGCGGCGCCCCGGCG
GGAGCCGGTCCCTTTCCCGTCGGGGAGCGCGGGGCCGGGGCCCAGGGGACCCCGGGCCACGGAGAGCGGGAAGAG
GATGGATTGCCCCGCCCTCCCCCGGATGGAAGAAGGAGGAAGTGATCCGAAAATCTGGGCTAAGTGCTGGCAA
GAGCGATGTCTACTACTTCAGTCCAAGTGGTAAGAAGTTCAGAAGCAAGCCTCAGTTGGCAAGGTACCTGGGAAA
TACTGTTGATCTCAGCAGTTTTGACTTCAGAACTGGAAAGATGATGCCTAGTAAATTACAGAAGAACAACAGAG
ACTGCGAAACGATCCTCTCAATCAAAATAAGCTGCGCTGGAACACTCATCGTCCTGCACCATGGCATGCGCTTTC
AAGACTCTGCTTGCTCATACGCTGTTTGCTCTGCTTGGAAATGTGCTTACCCCTTCCCTTTCATCTGGTGAACCTC
CTACTCATCCAAGACCCAGCTTCATTGTCTCCATCTCTGGGAAGCCTGCCCTGCATACTCCAGGCAGAACCAATC
CTTTCCTCCATAGGGGTAAACCAGACTTGAATACAACATTGCCAATTAGACAAACAGCATCAATTTTCAAACAAC
CGGTAACCAAAGTCAAAATCATCCTAGTAATAAAGTGAAATCAGACCCACAACGAATGAATGAACAGCCACGTC
AGCTTTTCTGGGAGAAGAGGCTACAAGGACTTAGTGATCAGATGTAACAGAACAAATTATAAAAACCATGGAAC
TACCAAAGGTCTTCAAGGAGTTGGTCCAGGTAGCAATGATGAGACCCCTTTTATCTGCTGTTGCCAGTGCTTTGC
ACACAAGCTCTGCGCCAATCACAGGGCAAGTCTCCGCTGCTGTGGAAAAGAACCCTGCTGTTTGGCTTAACACAT
CTCAACCCCTCTGCAAAGCTTTTTATTGTACAGATGAAGACATCAGGAAACAGGAAGAGCGAGTACAGCAAGTAC
GCAAGAAATTGGAAGAAGCACTGATGGCAGACATCTTGTCGCGAGCTGCTGATACAGAAGAGATGGATATTGAAA
TGGACAGTGGAGATGAAGCCTAAGAATATGATCAGGTAACCTTCGACCGACTTTCCCAAGAGAAAATTCCTAGA
AATTGAACAAAAATGTTTCCACTGGCTTTTGCTGTAAAGAAAAAATGTACCCGAGCACATAGAGCTTTTTAAT
AGCACTAACCAATGCCTTTTTAGATGTATTTTGATGTATATCTATTATTCAAAAAATCATGTTTATTTTGAG
TCCTAGGACTTAAATTAGTCTTTTGTAATATCAAGCAGGACCCTAAGATGAAGCTGAGCTTTTGATGCCAGGTG
CAATCTACTGGAATGTAGCACTTACGTAAAACATTTGTTTCCCCCACAGTTTTAATAAGAACAGATCAGGAATT
CTAAATAAATTTCCAGTTAAAGATTATTGTGACTTCACTGTATATAACATATTTTTTATACTTTATTGAAAGG
GACACCTGTACATTCTTCCATCATCACTGTAAAGACAAATAAATGATTATATTACAGACTGATTGGAATTCCTT
CTGTTGAAAAGCACACACAATAAAGAACCCCTCGTTAGCCTTCCTCTGATTTACATTCAACTCTGATCCCTGGGC
CTTAGGTTTGACATGGAGGTGGAGGAAGATAGCGCATATATTTGCAGTATGAACTATTGCCTCTGGACGTTGTGA
GAATTGTGCTTTTACCAGAATTTCTAAGAATTTCTGCTAAATATCACCTAGCATGTGTAATTTTTTTTCTTGCC
TGTGACTTGGACTTTTGATAGTTCTATAAGAATAAGGCTTTTTCTTCCCTTGGGCATGAGTCAGATACACAAGGA
CCCTTCAGGTGTTACTAGAAGGCGTCCATGTTTATTGTTTTTTAAAGAATGTTTGGCACTCTCTAACGTCCACTA
GCTTACTGAGTTATCAGGTGCAGGTCAGACTCTTGGCTACAGTGAGAGGCAGCTTCTAGGCAGAGTTGCTTAATG
AAAGGGTTTGTAAATCTTTACAAACCATTACCTGTACCTGGCCTGGCCTCCAAAATATTAACATTCCTTTTCTGT
TGAAACTCGCGAGTGTAACCTTCATACCCTTGAATTTATTGATATTTAATTATGAAAACCTAGCATTACATTATT
AAACGATTTCTAAAATC

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FIGURE 328

MRAHPGGGRCCPEQEEGESAAAGGSGAGGDSAIEQGGQGSALAPSPVSGVRREGARGGGRGRGRWKQAGRGGGVCG
RGRGRGRGRGRGRGRGRGRGRPPSGGSGLGDDGGGCGGGGSGGGGAPRREPVPFPGSAGPGPRGPRATESGKRM
DCPALPPGWKKEEVIRKSGLSAGKSDVYYFSPSGKKFRSKPQLARYLGNTVDLSSFDFTGKMMP SKLQKNKQRL
RNDPLNQNKLRWNTHRPAPWHALSRLCLLIRCLLCLECAYPLPLHLVNSYSSKTQLHCLHLWEACPAYSQRNQSF
PP

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FIGURE 329A

CGGACGCGTGGAACGAAGCCACCCATTACGGTATGATGATGTCAAACGTGATGCTGATGCTACAGTTACAGCCC
CTGCTGGCGCAGCCTCTCTGATTCTCTCTCCCTCTCCGCTCCAGTGCTGGGCTTTTTTCAGACAAGTGCATCTCC
TAACCAGGTACATTTTCAGCCGCGACCCACTCTCCGCCAGTACCAGGAGGCAGACCGCGGGAGGAGAGCTGAGGA
CAGCCGCGTGCGCTTCGCCAGCAGCGGGGTGGGAGGAAGGACATTAAATACTGCAGAAGTCAAGACCCCCCAGG
TCGAACCCAGACCACGATGCGCGCCCCGGGCTGCGGGCGGCTGGTGCTGCCGCTGCTGCTCCTGGCCGCGGCAGC
CCTGGCCGAAGGCGACGCCAAGGGGCTCAAGGAGGGCGAGACCCCCGGCAATTTTCATGGAGGACGAGCAATGGCT
GTCGTCCATCTCGCAGTACAGCGGCAAGATCAAGCACTGGAACCGCTTCCGAGACGAAGTGGAGGATGACTATAT
CAAGAGCTGGGAGGACAATCAGCAAGGAGATGAAGCCCTGGATACCACCAAGGACCCCTGCCAGAAGGTGAAGTG
CAGCCGCCACAAGGTGTGCATTGCCCAGGGCTACCAGCGGGCCATGTGCATCAGTCGCAAGAAGCTGGAGCACAG
GATCAAGCAGCCGACCGTGAACTCCATGGAACAAAGACTCCATCTGCAAGCCCTGCCACATGGCCAGCTTGC
CTCTGTCTGCGGCTCAGATGGCCACACTTACAGCTCTGTGTGTAAGCTGGAGCAACAGGCGTGCTGAGCAGCAA
GCAGCTGGCGGTGCGATGCGAGGGCCCCCTGCCCTGCCCCACGGAGCAGGCTGCCACCTCCACCGCCGATGGCAA
ACCAGAGACTTGCACCGGTGAGGACCTGGCTGACCTGGGAGATCGGCTGCGGGACTGGTTCCAGCTCCTTCATGA
GAACTCCAAGCAGAATGGCTCAGCCAGCAGTGTAGCCGGCCCGGCCAGCGGGCTGGACAAGAGCCTGGGGGCCAG
CTGCAAGGACTCCATTGGCTGGATGTTCTCCAAGCTGGACACCAGTGCTGACCTCTTCTGGACCAGACGGAGCT
GGCCGCCATCAACCTGGACAAGTACGAGGTCTGCATCCGTCCCTTCTTCAACTCCTGTGACACCTACAAGGATGG
CCGGGTCTCTACTGCTGAGTGGTGCTTCTGCTTCTGGAGGGAGAAGCCCCCTGCCTGGCAGAGCTGGAGCGCAT
CCAGATCCAGGAGGCCGCCAAGAAGAAGCCAGGCATCTTCATCCCGAGCTGCGACGAGGATGGCTACTACCGGAA
GATGCAGTGTGACCAGAGCAGCGGTGACTGCTGGTGTGTGGACCAGCTGGGCTGGAGCTGACTGGCACGCGCAC
GCATGGGAGCCCCGACTGCGATGACATCGTGGGCTTCTCGGGGGACTTTGGAAGCGGTGTCGGCTGGGAGGATGA
GGAGGAGAAGGAGACGGAGGAAGCAGGCGAGGAGGCCGAGGAGGAGGGCGAGGCAGGCAGGCTGACGACGG
GGGCTACATCTGGTAGACGCCCTCAGAAGCCGGCTGCCGGGGGGGACTCAACAGCAGAGCTCTGAGCAGCAGCAG
GCAACTTCGAGAACGGATCCAGAAATGCAGTCAGAAGGACCCTGCTCCACCTGGGGGGACTGGGAGTGTGAGTGT
GCATGGCATGTGTGTGGCACAGATGGCTGGGACGGGTGACAGTGTGAGTGCATGTGTGCATGCATGTGTGTATGT
GTGTGTGTGTGTGGCATGCGCTGACAAATGTGTCTTGATCCACACTGCTCCTGGCAGAGTGAGTAACCCAAAGG
CCCCCTCGGCCCTCCTTGTAGCTGTTTTCTTTCTTTTGTGTGTGTTTTTAAATACATTACACACAAATACAAA
TTGACAGGTCAAATCCATGAAATGAGATCCCCAGCCGTGCTCCTCAGCCCAGCCCTGACCCCTTGGTTTCTAC
CCTGGCTCCCCCTTGGTTTCTACCCTGGCTCAACCGACCCCTGTCTGCCCTTCTCCCTCCTGCTTCTGAGGTCAAG
CTCTGGCCTGCGAGCCTGTCCCCATTGCAAAGGGGAGGGAGGGGCGAGGAGCTGTCTACCAGCTGAGGTCTCTCC
AAACTGGGCCGATGTGGTGTGACATCCCCACCAGCCTCAGATGAGACGGGCCAGGACGCCACGCCACAGCAAGC
CCTGTCCCTTTGCCGGATCCCCAAACACTAGAGAAGCTCTCCTAACCCAAGGCGGAGAATGAAGGTGGTGGCGGC
AGAGGAGGAGGGCAGCAGCTGAGAGGCCAGGGACAGGGTGCCTCGCCAAGCTGTCTGAGGTCTGTCCCAGGTGGC
CCAGGTGGTGCAGGTAGAACAGGGTGAGGAGAGGGGGTGGCTCAACAGGAGGAGGCTGTGGCTGCAGAGCCTGG
AGGAGCTTTTAGGTGTTGAGATGGGGCAGCTCTGAATCCTAGACCCTGGAATAGCCTGTCCCTTTTCTCTGGGTG
TCGTGGTGGAGCCATGATCTGGGCTGCTCTTGGGGACACTGGGTGGTGGTTACACAGTTGACCTCTGCCTGGC
TCCCCCTTGGTGCAACTCCTGCCTCCATCCCCCTTGCTGGGGTCCCCCTCATCCACTTGAGGGCGCCTGAGGGCCA
GGAGCAGCAGGCAAGGAGCCTGGGTCTAGGCTAAGGGGGTGTGTGCCACCTCCTCCCTGACCTTAACACTCCT
GTCTGCCAGACCAACAGAGAGAGCTGTCCCTGAGACCCCGAGAGAAGCAGCTGCCGAAAGCTGCAGCCTTTC
CGCACTCTGAGACCATGATCTTCTCCTGCCAGGGGAGAGCCACCCACAGGCCATGTCCAGCCCCACTTCCCTCA
GCCCCAGGGCTTCTTCTGGCCCCCTGAGGATTCCCTAGGGCTGCCCGCAGAGGGGCTTCCCCAAGCTCTGT
TTTGAAGCCTGCAATGTGGAAGAGTGAGAAGTCAGAGGGAACAGGACAGGTGCAGCCGGGCTCTGAGGCCACACC
TCACACCTCGCTGTTCCCCAACATCCCCTGAGCAGTGTGAGCTCATCTCACCAGATGAGAAGAGGCCCTGTGCAT
TTCTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GGTGGAGAATTTCTTACCCAGACTTGGGGCTGTGATGCCCTTCAGTGCGTGGTGAGTGACGCTGTGTGCGTGTG
CCTGTGTGTGAACCTGGGGGCCATCCTGGTGGCCTGGGAGCGTGAGGAGAGGCCCCCTGTGTGCTGGGTGAGTGG
TGGGTGTGGGGTCAATGCAGTGAGGCTCTCTGGGTGAGGCTCCCAACCTGGCAGTCCCCAGCCTCCCAGCATCTG
TGAGCGTCTGTGGACTTTACAGAAGAGCCTCATCCCGTCTGCCCTCACTCTGCCCTGGAATCAACATCTTCCG
AGTCCTTCTTGGGGGAAATAGCAGAGCCCCACTTAACTCCATAAACTGCTTCCCATTCCGCGAGCCAGTTCTGAT

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FIGURE 329B

TC TTGAGGTGTCGCGTCGTTCCAGGTCCCCAGTCCCCTCTTTCTCCTGTCCTCTCTCTGTCCTTCACCTCCCCA
CTCCAGCCCCGGCTCAGTTCAGGGAAATGCTGTTCCATATCAGCCCTCTGCTCTCTGAGGCAGCCGCGCCTCTGA
CTCGGAGCTACTTGAACTTCTGCTCTTGCTAGGATTGGAGTCTACCTATCTCTTCCATTTGTCCCAGCTGGAGT
CTCGGAACTTTCCTCCTCGGGGTGGGGGTGGGGGTGTTAAGGATGCTGGGGGGCCTGGGGAAGGAAGGAGTTCA
AAGGGTGTCCCCTGTCCTCTTGATGTCACCCCTCCGCTCCTGGGACACGTGCTCTCTCTGTCCTCTGGGTCTT
CTGTGCACGTTTGTGTGTCCTTGTAATATGTTTTAGGAAGAAAGCAAAAGGGACTGAAGTAGCCTCTGGT
ATTGCAGGGGTCCAGCCTTGCCCTGTTTCCGAAGCCCCACACTGCCTTTCGCCCCACTGAGACTGGTCCCCT
AAAAGGTAGACAAAACAGCAGCTCCCTGTGGAGCTGAAGGGCGGCCTCAAAGTGGCTTTTTGTTAGACAAGGTT
CTTTCCTCATGAGCAAGGTTGCAGATCGGTCTTCTCAGCTCCTTGATTGTGACCTTGACCAAGGGGCCT
ACCCAGCCCCCTCCAGTGCCCTCTCCTCGATGCCTCGCTCCTTCTGCCCCACTCCCCTGGCTTAGGCAGGT
GGAATTAGGGCCATGCTGGAAGAAGCTTAACCATGTGTTCAAAGAACGGTTTCTTGCTTGCTTGGTCTGGA
CCCCCTGGCTGCCCCAGGCCTCCTTGGCCCATGGGTGCTGGGGGAGGTGGATGTCAGATCTGGTAGGTTGCA
AGAGAAAATAAATGTGCCTTGAGAGACCACTCAGAGAGGGTCCAAGGGTGATGGAGAAGGAAGCATGGCCTGG
CTTGGGAAGGGAGGGGTGGTGGGTGGCGGCATCTTGAAGTCCCCCTGTTGTCCCACACGTGGGGGTGGTCA
CTCCCTTCACTCCAGCCCGCCTGCCTTCAGCCTTCCATGAGCTTCACCTGCTTCCAACCTCACTTTGGAGGGGT
GGGGTCCGTTGGCATCAACACGGGGACCCCTCTGCTTCACCAAAGCCCCGAGCCCTCAGCCCTGGGGAGAACAAT
GGCTGAGCTTTGATACCTGGGGTCGTCGAGAGGCTGCGGGCTGGCGGCAGTCCCAGGGGAGAGACACCACAGAAG
GAGACCAGACATCCCGAGGAAGTTCCAGCAGAGCAAACTGCTTCCAGCCTGAAGCCTGCTTAAACTGTGTGA
TGTGCAATAACTGAGCTTAGAGTTAGGAATTGTGTTCAAGTGTGATTCCGTCTGTAGATTTAACTGCTGAA
ATTGTATCTCTCAGTAATTTTAGATGTCTTTTAAAAAATTGAAAAACAAAGTGTTAGACTGTGTGCGTGTGCGTT
GATGGGCACTCAAGAGTCCCGTGAGTCATCCAGCCCTGCCTTTCCTTGCCTTATTAAGGAAACAAGTACACTCC
TGCCTCCACTTGGGGACCCCTGCCTCGTGTGCTCTTTATCTGCCTATTACTCAGCCTAAGGAAACAAGTACACTCC
ACACATGCATAAAGGAAATCAAATGTTATTTTAAAGAAATGGAAAATAAAAACCTTTATAAACACC

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FIGURE 330

MRAPGCCRLVLPLLLLAAAALAEQDAKGLKEGETPGNFMEDEQWLSSISQYSGKIKHWNFRDEVEDDYIKSWED
NQOGDEALDTTKDPCQKVKCSRHKVCIAQGYQAMCISRKLEHRIKQPTVKLHGKDSICKPCHMAQLASVCGS
DGHTYSSVCKLEQQACLSSKQLAVRCEGPCPCPTEQAATSTADGKPETCTGQDLADLGDRLRDWFQLLHENSQN
GSASSVAGPASGLDKSLGASCKDSIGWMFSKLDTSADLFLDQTELAALNLDKYEVCIRPFFNSCDTYKDGRVSTA
EWCFCFWREKPPCLAELERIQIQEAAKKPGIFIPSCDEDGYRKMQCDQSSGDCWCVDQLGLELTGTRTHGSPD
CDDIVGFSGDFGSGVGWEDEEEKETEEAGEEAEDEEAGEADDGGYIW

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FIGURE 331

TCTTGACTCACGCCTTCGCCGTAGCATCTTTCGCAGCGGACCGAAGAGAAGAAAAGTAGGCCAGAGCCGAACCTCT
CTTCCTGCCAAGATGTCTATTGGTGTGCCGATTAAAGTACTGCATGAGGCCGAGGGCCACATTGTGACATGTGAG
ACGAACACCGGTGAGGTATATCGGGGGAAGCTCATTGAAGCAGAGGACAACATGAACTGCCAGATGTCCAACATC
ACAGTCACATACAGAGATGGCCGAGTGGCACAGCTGGAGCAGGTATACATCCGTGGCAGCAAAATCCGCTTTCTG
ATTTTGCCTGACATGCTGAAGAACGCACCCATGTTAAAGAGCATGAAAAATAAAACCAAGGCTCAGGGGCTGGC
CGAGGAAAAGCTGCCATTCTCAAGGCCCAAGTGGCCGCAAGAGGAAGAGGACGTGGAATGGGACGTGGAAACATC
TTTCAAAAGCGAAGATAATTTTCTAAGTTGAACAGAACTTTGTCCTTTTTTCTTTCAGGTTATCTGAGTTCATTG
GAGTGGGTGCTTGTGCATATATCTAGGTATCTTTTGCCATCTTCTCTTTAGATCAGGGGAAATGTTTAAGCTAA
ATAAATCTGGGGGGTTTTTTGTTCTG

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FIGURE 332

MSIGVPIKVLHEAEGHIVTCETNTGEVYRGKLEAEDNMNCQMSNITVTYRDGRVAQLEQVYIRGSKIRFLILPD
MLKNAPMLKSMKNKNQSGAGRGKAAILKAQVAARGRGRGMGRGNIFQKRR

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FIGURE 333

CCTGCGTGGCTGGGCTGCTCGGGTTAGATCGTCAGGAAAAGCCTAAAGATTAGACTGTAAGAAAAGAAAATAGAA
GCCATGTTTTCGAAGACCTGTATTACAGGTACTTCGTCAGTTTGTAAGACATGAGTCCGAAACAACCTACCAGTTTG
GTTCTTGAAAGATCCCTGAATCGTGTGCACCTTACTTGGGCGAGTGGGTCAGGACCCTGTCTTGAGACAGGTGGAA
GGAAAAATCCAGTCACAATATTTCTCTAGCAACTAATGAGATGTGGCGATCAGGGGATAGTGAAGTTTACCAA
CTGGGTGATGTCAGTCAAAAGACAACATGGCACAGAATATCAGTATTCCGGCCAGGCCTCAGAGACGTGGCATAT
CAATATGTGAAAAAGGGGTCTCGAATTTATTTGGAAGGGAAAAATAGACTATGGTGAATACATGGATAAAAAATAAT
GTGAGGCGACAAGCAACAACAATCATAGCTGATAATATTATATTTCTGAGTGACCAGACGAAAGAGAAGGAGTAG

AAAGGATGATTCTTCTTTGGCCATCATTGTTGACAGTCTCATTTCGAAGTCATGTATAATCTTTATGGCTTCCAA
GGACAAGAATTAAAATACTCTTTTACGT

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FIGURE 334

MFRRPVLQVLRFVRHESETTTSLVLESLNRVHLLGRVGQDPVLRQVEGKNPVTIFSLATNEMWRSGDSEVYQL
GDVSQKTTWHRISVFRPGLRDVAYQYVKKGSRIYLEGKIDYGEYMDKNNVRRQATTIIADNIIFLSDQTKEKE

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FIGURE 335

CCGCCGTAGCGCGTCTTGGGTCTCCCGGCTGCCGCTGCTGCCGCCGCCGCTCGGGTCTGTGGAGCCAGGAGCGAC
CTCACCGCCCATGGCAGGCATCAAAGCTTTGATTAGTTTGTCTTTGGAGGAGCAATCGGACTGATGTTTTTGATG
CTTGGATGTGCCCTTCCAATATACAACAAATACTGGCCCCCTCTTTGTTCTATTTTTTTACATCCTTTCACCTATT
CCATACTGCATAGCAAGAAGATTAGTGGATGATACAGATGCTATGAGTAACGCTTGTAAGGAACCTTGCCATCTTT
CAACGGGCATTGTCTGTCTCAGCTTTTGGACTCCCTATTGTATTTGCCAGAGCACATCTGATTGAGTGGGGA
GTGCACTTGTCTCACAGGAAACACAGTCATCTTTGCAACTATACTAGGCTTTTCTTGGTCTTTGGAAGC
TACGACTTCAGCTGGCAGCAGTGGTGAAGAAATTACTGAACTATTGTCAAATGGACTTCCTGTCATTTGT
GCGCATTACGCACACAGGAGATGGGGCAGTTAATGCTGAATGGTATAGCAAGCCTCTTGGGGGTATTTTAGGT
TCCCTTCTCACTTTTATTGTAAGCATACTATTTTCACAGAGACTTGCTGAAGGATTAAAGGATTTTCTCTTT
AAAAGCTTGACTGATTTACACTTATCTATAGTATGCTTTTTGTGGTGTCTGCTGAATTTAAATATTTATG
TTTTTCTGTTAGGTTGATTTTTTTTTGGAATCAATATGCAATGTTAAACACTTTTTTAATGTAATCATTGCA
TTAGGAATTCAGAATTCGCCCGGCTCTATTACTGGTCAAGTACATCTTTCTCTTAAATTTATTTAGCCTC
TATTACAAAAAATTATAAAAAATAAGTTTTTCACTCAGTCAGTCAGGATGACATCACTCCCAATGTTATGCAGACATA
ACGGTTGGCATACTGTTATAGACTGTATACTCAGTGCAAATATAGCTGCATTTATACCTCAGAGGGGCCAAGT
GTTAATGCCCATGCCCTCCGTTAAGGGTTGTTGGTTTTTACTGGTAGACAGATGTTTTGTGGATTGAAAATTATTT
TATGGAATTGCTACAGAGGAGTGCTTTTCTCTCAATTGTTAGAAGAATTTATGTTAACTTTAAGGTAAGGGTG
TAAAAACATTTTTGAGATAAGGTTTTTATTTATGTTTATTATTGTTAGAGTGAGTTGCAATGTGGGAAGAAATGA
CATTGAAATTCAGTTTTTGAATCCTGTTTCTATTTATAAGTGAAATTTGTGATCTCCTATCAACCTTTTCATGTT
TTACCCTGTTAAATGGACATACATGGAACCACTACTGATGAGGGACAGTTGTATGTTTGCATCATATATGCCAG
AAAACCTTCCTCTGCTTCCTCCTTTTACTTATTTGGTATGTTGTATATATTACATAAAATAACTTTTTCAAATAT
AGTTTAATAACACTTAGAAGTGTTTACTTACCTGGAATAAATTGCTATGCCGTACATTACAGAGTGCCCCCTCCC
CTGCAAGGCCTTGCCATGATTAACAAGTAACTTGTTAGTCTTACAGATAATTCATGCATTAACAGTTTAAGATTT
AGACCATGGTAATAGTAGTTCTTATTCTCTAAGGTTATATCATATGTAATTTAAAGTATTTTTAAGCCAAGTTT
CCTGTATACCTCTGAAGTGTGTTTGAATTTGAGTTCATCATGATAGATCTGCTGTTTCCTTATAAAAGGCATTTGT
TGTGTGAGTTAATGCAAAGTAGCCAAGTCCAGCTATATAGCAGCTTCAGAAACATACCTGACCAAAAAATTTCCA
GTAACCAGGCATGATCAATTTATAGTGGTCTGTTTACATCTAATAATTATCAGGACTTTTTTCAGGAGTGGGTTAT
AAAAACATTCAAGTTGGTCTGACAGTATTTTGTAAAGGATATTTGTTTGTATGTTTATTCAGTATACTTACATAA
AAATTATTTGCCATCAGCCAAAACCTCAGTAATCATGACAGCTGTCTGTTGTTTATGAAGTTTATTTCTCAAGA
AAATGGGAATAAATTTGGGATTTGTTTCACTTAAAGATGCCTAAAGCCACAGGTTTTATTGCCTAACT
TAAGCCATGACTTTTAGATATGAGATGACGGGAAGCAGGACGAAATATCGGCGTGTGGCTGGAGCCTTCCCACTG
GAGGCTGAAAGTGGCTTGTGGTATTATAATGTTTCAAGAGGAAGGTGCAGGTACACATGAGTTAGAGAG
CTGGTGAGACAGTTGGGAACCTTTTGTGCTTGTGATCTACTGGACTTTTTTTTTTGAGGAAGTGCATTCTCTGGT
CCTTCCCTATTTTTCTGTTCTGGATGTGAGTGCAGTGCAGTGCAGTGTCTGTTTATCCACTTGCCACAGACTTTTTTC
TAACAGCTGCGTATTATTTCTATATACTAATTGCATTGGCAGCATTGTGTCTTTGACCTTGTATACTAGCTTGAC
ATAGTGTCTGTCTGATTTCTAGGCTAGTTACTTGAGATATGAATTTTCCATAGAATATGCACTGATACAACATT
ACCATTCTTCTATGGAAGAAAACCTTTTGATGATGAAACAATAAAGATTTTAAATATCAAAAAAAAAAAAAAAAAA
A

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FIGURE 336

MAGIKALISLSFGGAIGLMFIMLGALPIYNKYWPLFVLFFYILSPIPYCIARRLVDDTDAMSNACKELAIFLTT
GIVVSAFGLPIVFARAHLEWGACALVLTGNTVIFATILGFFLVFGSKDDFSWQQW

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FIGURE 337

CTATCCGCGCGCGTCGCCGGCCAGTCCTGTCGCTGACGGGAGGATCTGAAGCCGGCCGCAGGTCAAAGAGTAAA
ATGAAGTACATTCTGGTTACTGGTGGTGTATATCAGGAATTGGAAAAGGAATCATTGCCAGCAGTGTGGGCACA
ATACTCAAGTCATGTGGTTTACATGTAACCTTCAATCAAATTGACCCCTACATTAACATTGATGCAGGAACATTCT
TCTCCTTATGAGCATGGTGAGGTTTTTGTGCTGGATGATGGTGGGGAAGTAGACCTTGACCTGGGTAACTATGAG
CGGTTTCCTTGACATCCGCCTCACCAGGACAATAATCTGACCACTGGAAAGATATACCAGTATGTCATTAACAAG
GAACGGAAAGGAGATTACTTGGGGAAAAGTGTCCAAGTTGTCCCTCATATCACAGATGCAATCCAGGAGTGGGTG
ATGAGACAGGCGTTAATACCTGTAGATGAAGATGGCCTGGAACCTCAAGTGTGTGTTATTGAGCTTGGTGGAAAC
GTGGGGGACATAGAAAAGCATGCCCTTTATTGAGGCCTTCCGTGAGTTCCAATTCAAGGTCAAAGAGAGAATTT
TGTAACATCCACGTCAGTCTAGTTCCCCAGCCAAGTTCAACAGGGGAACAGAAAGACTAAACCTACCCAGAATAGT
GTTCCGGAACTTAGAGGACTTGGGCTTTCCCCAGATCTGGTTGTATGCAGGTGCTCAAATCCACTTGACACATCA
GTGAAGGAGAAAATATCAATGTTCTGCCATGTTGAGCCTGAACAAGTGATCTGTGTCCACGATGTCTCATCCATC
TACCGAGTCCCCCTTGTGTTAGAGGAGCAAGGGGTTGTAGATTATTTTCTTCGAAGACTTGACCTTCCTATTGAG
AGGCAGCCAAGAAAAATGCTGATGAAATGGAAAGAGATGGCTGACAGATATGATCGCTTGCTGGAGACCTGCTCT
ATTGCCCTTGTCGCGAAATACACCGAGTTCTCAGACTCCTATGCCTCTGTCTATTAAAGGCTCTGGAGCATTCTGCA
CTGGCCATCAACCACAAATTGGAAATCAAGTACATAGATTCTGCGGACTTGGAGCCCATCACCTCGCAAGAAGAG
CCCGTGCGCTACCACGAAGCTTGGCAGAAGCTCTGTAGTGCTCATGGAGTGCTGGTTCCAGGAGGATTTGGTGT
CGAGGAACAGAAGGAAAAATCCAAGCAATTGCCTGGGCTCGGAATCAGAAAAAGCCTTTTTTGGGCGTGTGCTTA
GGGATGCAGTTGGCAGTGGTTGAATTCTCAAGAAACGTGCTGGGATGGCAAGATGCCAATTCTACAGAGTTTGAC
CCTACGACCAGTCATCCCGTGGTCTGTAGACATGCCAGAACACACCCAGGGCAGATGGGCGGAACCATGAGGCTG
GGCAAGAGGAGAACCCTGTTCCAGACCAAGAACTCAGTCATGAGGAACTCTATGGAGACGCAGACTACTTGAA
GAGAGGCACCGCCACCGATTTGAGGTGAATCCAGTCTGGAAAAAGTGTGTTGGAAGAACAAGGCTTGAAGTTTGT
GGCCAAGATGTTGAAGGAGAGAGAATGGAAATGTGGAGTTAGAAGATCATCCCTTTTTTGTGGGGTTTCACTAC
CACCTTGAGTTCTGTCCAGGCCTATCAAGCCCTCCCCACCATACTTTGGCCTCCTCTGGCCTCTGTGGGGCGG
CTCTCACATTACCTCCAGAAAGGCTGCAGGCTCTCAGCCAGGGACACCTATAGTGACAGGAGTGAAGCAGCTCC
CCTGACTCTGAAATCACCGAACTGAAGTTTCCATCAATAAATCATGACTTGATCTTGTAGCGGATGATTCTTCAAG
AGACCCTTCAAACCTTGGGTAGAGTTTACAGCTCTGACTTTTACACTCGGCTTTGGAGACTTTCTTTAAATTATGTT
TTTATTAAGATTATTTTATTATGCGGAAAAGGTATTTGGGAAACTTGTCACTTGATGTCCCATCACGTGTACTGG
CTCCTCTGTGGTGTCTGCCTGTTGCGTGACACTCTCCTTGAGTTTGTAGTTGCGGCAGAACATCGCGATGGGA
ACCGATGGTGGGTGGGGCTGCAGATGTCCCATCGGTACCTTGTCTCAACTACCTCGCATCATTCAGATCG
TAGCGCGTTGCCTGTGCTTTTCCCTTGGATACCTAGACCGTTATAAAGTGTGCCACATGGACTTACCGAGCATGG
AGAGAGGATTTTAGCTAGGATTTGAACACTTGGTGTGGGAACCTCAGGGTATTGCTTGCCACTAAGCCATGAAA
CCAGAGACAAAATCTCTATACTGCCCTGAGTTGGGGGGAATTCTCAGTGCCAACTGTGGCTGGTCCCTCATTCAA
GGGACGGTCAGTTTGGTGTCAACATGAAACACCAAGATGTCTGTCTCTGAAGCGTGATTTTAAATCCCCATGCC
TGTGCGTGCGCTTCTATTTCTAGGGCTGGGAAACACTCCTTGATCAAGGGGTCACTTACAGAACAAAGAATCT
TTTGGGGGAACTTCTCTAAAACCCTCTCATATATAGACAGCTTTGACTGGAGGGTCCATTTTTCTTCCAGGAT
GGTGTACTGCAGTTGAAGGGCAATATGAAGTTACTTTCTTAATGTGACCTAGCAATAGGCATAGCTACGTGGCA
CTATATTCTGGCCAGACTCGATGTGTACTCTAACTTAAGAAATAAATCAGTAAGGCAG

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FIGURE 338

MKYILVTGGVISGIGKGIIASSVGITLKSGLHVTSTIKIDPYINIDAGTFSPYEHGEVFLDDGGEVDLDLGNYE
RFLDIRLTKDNNLTGKIYQYVINKERKGDYLGKTVQVPHITDAIQEWVMRQALIPVDEDGLEPQVCVIELGGT
VGDIESMPFIEAFRQFQFKVKRENFNCNIHVSLVPQPSSTGEQKTKPTQNSVRELRLGLSPDLVVCRCNSNPLDTS
VKEKISMFCHVEPEQVICVHDVSSIYRVPLLEEQQGVVDYFLRRDLPIERQPRKMLMKWKEMADRYDRLLETCS
IALVAKYTEFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITSQEEPVRVYHEAWQKLCSAHGVLVPGGFGV
RGTEGKIQAIAWARNQKKPFLGVCLGMQLAVVEFSRNVLGWQDANSTEFDPTTSHPVVVDMPHNPQMGGTMRL
GKRRTLFQTKNSVMRKLYGDADYLEERHRHREFVNPVWKKCLEEQGLKFGVDVEGERMEIVELEDHPFFVGVQY
HPEFLSRPIKPSPPYFGLLLASVGRLSHYLQKGCRLSPRDTYSDRSGSSSPDSEITELKFPSINHD

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FIGURE 339

CCTGGACTAGCCGGGTTGTATTTGGAAACGCGGAGTGAGTTTTTCCGTGCTGTGTAGGGGCTAACAATGGACACC
CAGAAGGACGTTCAACCTCCAAAGCAGCAACCAATGATATATATCTGTGGAGAGTGTACACAGAAAATGAAATA
AAATCTAGGGATCCAATCAGATGCAGAGAATGTGGATACAGAATAATGTACAAGAAAAGGACTAAAAGATTGGTC
GTTTTTGATGCTCGATGAATGCTGGGAATTCAGAGGAATGTCTTCACTTATACTTGGATTGTCTCTTCCCATT
TCTGATTGTTGTATAGCTTTCGATTTTGCTTACAGTAGTTCCCCCTTATCTTCGGGAGATACATTCCAAGGCCCC
CAGTGAACCTCCTGAAACCTCAAACAGTACCAAACCTTTATACACTGTTTTTCCATATATATATACCTATGATAA
AGTATAATGTATAAATTAAGCATAGCAAGAGATTAATAATAATGTAATAGAACAATGATAACATACTATAATAAA
AGTTATGTGAATGTG

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FIGURE 340

MDTQKDVQPPKQQPMIYICGECHTENEIKSRDPIRCRECGYRIMYKKRTKRLVVDAR

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FIGURE 341

CTTCGGTCCTGCTGCTAGTGCCTTCTGCGCCAGGCCCGGTTCAATCAGCGGCCACAACCTGTCTAGGGCTCAGACAC
CACCAGCCAATGAGGGAGGGCACGTGGAGCCGCGTCTGGGCTCGCGGCTCCTGACCAATCGGGGAAGTGGCATGTG
GGAGGGCGCCGGGGTTCCCCCGCCAATGGGGAGCTACGGCGCGCGGCCGGGACTTGGAGGGCGGTGCGGCGCGGC
GGGTGCGGTTTCAGTCGGTCGGCGGCGGCAGCGGAGGAGGAGGAGGAGGAGGAGGATGAGGAGGATGAGGAGGATG
TCACGCAGGGGCTGGCGGTGCGCGTGGCTCTGAGCGTGCTGCCGGGCAGCCGGGCGCTGCGGCCGGGCGAC
AAGTTTGTATTTCTTATCTGGGAAGATTTTACCAGGACCTCAAAGACAGAGATGTCACATTCTCACCAGCC
CTTGAAAACGAACTTATAAAGTTCTGCCGGGAAGCAAGAGGCAAAGAGAATCGGTTGTGCTACTATATCGGG
ACAGATGATGCAGCCACCAAAATCATCAATGAGGTATCAAAGCCTCTGGCCCACCACATCCCTGTGGAGAAG
GTGAGAAGCTTAAGAAGAAGGACAGCCAGATATGTGAGCTTAAGTATGACAAGCAGATCGACCTGAGCACA
ACCTGAAGAAGCTCCGAGTTAAAGAGCTGAAGAAGATTCTGGATGACTGGGGGGAGACATGCAAAGGCTGT
AAAAGTCTGACTACATCCGGAAGATAAATGAACTGATGCCTAAATATGCCCCAAGGCAGCCAGTGCACCG
ATTTGTAGTCTGCTCAATCTCTGTTGCACCTGAGGGGGAAAAACAGTTCAACTGCTTACTCCCCAAACAG
TTTTGTAATTTATTTTTTAAGTGGGCTCCTGACAATACTGTATCAGATGTGAAGCCTGGAGCTTTCCTGATG
CTGGCCCTACAGTACCCCATGAGGGGATTCCCTTCCTTCTGTTGCTGGTGTACTCTAGGACTTCAAAGTGT
GTCTGGGATTTTTTTTATTAAAGAAAAAAATTTCTAGCTGTCAAAAAAAAAA

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FIGURE 342

MGKWHVGGRRGSPRQWGATARGRDLEAVRRGGCGSVGRRRQRRRRRRRRMRMRMWATQGLAVRVALSVLPGSR
ALRPGDCEVCISYLGRFYQDLKDRDVTFSPATIENELIKFCREARGKENRLCYYIGATDDAATKIINEVSKPLAH
HIPVEKICEKLKKKDSQICELKYDKQIDLSTVDLKKLRVKELKKILDDWGETCKGCAEKSDYIRKINELMPKYAP
KAASAPTDL

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FIGURE 343

CGAGCTGGAGAGGTGGTCGGAGAAGTAGGAACCTCCTGCCGGGCTCGTGGCGGCTTCTGTCCGCTCCGCGGAGGG
AAGCGCCTTCCCCACAGGACATCAATGCAAGCTTGAATAAGAAAAACAAATTCTTCCTCCTAAGCCATGGCATAT
CAGTTATACAGAAATACTACTTTGGGAAACAGTCTTCAGGAGAGCCTAGATGAGCTCATACAGTCTCAACAGATC
ACCCCCCAACTTGCCCTTCAAGTTCTACTTCAGTTTGATAAGGCTATAAATGCAGCACTGGCTCAGAGGGTCAGG
AACAGAGTCAATTTCAGGGGCTCTCTAAATACGTACAGATTCTGCGATAATGTGTGGACTTTTGTACTGAATGAT
GTTGAATTCAGAGAGGTGACAGAACTTATTAAAGTGGATAAAGTGAAAATTGTAGCCTGTGATGGTAAAAATACT
GGCTCCAATACTACAGAATGAATAGAAAAAATATGACTTTTTTACACCATCTTCTGTTATTCATTGCTTTTGAAG
AGAAGCATAGAAGAGACTTTTTATTTATTCTAGAATTGCAGAAATGACTACACTGTGCTATACCAGAGAATTCCA
GTAGAAAGAACTTGTAACCTCTGTAGCCTCTTACATCACCTTTATTATACAGCATGAAAAACCATAACTTTTTTT
TAAGGACAAAAGTTGTTGCCTTCCTAAGAACCTTCTTTAATAAACTCATTTTAAAACCTCTG

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FIGURE 344

MAYQLYRNTTLGNSLQESLDELIQSQQITPQLALQVLLQFDKAINAALAQRVRNRVNFRGSLNTYRFCDNVWTFV
LNDVEFREVTELIKVDKVKIVACDGKNTGSNTTE

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FIGURE 345

GAATTCccccccccccccagtgctccgcgcgctcttgacgtccggagcccctggagtaggcgcttccggccatt
catactgcagtcggtcagtggttcggttgaaggattctgtgtgctgtcggaccagaggggtgacggcgccgctagg
ATGAAGCTCGTGAGATTTTTGATGAAATTGAGTCATGAACTGTAACCATTGAATTGAAGAACGGAACACAGGTC
CATGGAACAATCACAGGTGTGGATGTCAGCATGAATACACATCTTAAAGCTGTGAAAATGACCCTGAAGAACAGA
GAACCTGTACAGCTGGAAACGCTGAGTATTCGAGGAAATAACATTCGGTATTTTATTCTACCAGACAGTTTACCT
CTGGATACACTACTTGTGGATGTTGAACCTAAGGTGAAATCTAAGAAAAGGGAAGCTGTTGCAGGAAGAGGCAGA
GGAAGAGGAAGAGGAAGAGGACGTGGCCGTGGCAGAGGAAGAGGGGGTCTAGGCGATTAATGTCTCTCAAGATTT
CAAAGTCATATGAGATTTGGGATATTTTTGTACAGGTTGTGTTTGTGTTTATGTCAGTTTTTAATAAACATAAATG
TGGGACAGAGCTGTCTATTTAGTATATCAAAGTTTTAGTAGTTTCCTCCACATTCACGAAATTACCACAGTGAGA
GCTAAGCATTTCTACTGGGCAGTTTCATTTTTAGTTGATCAGGTTTTAAGTTTTTGAATAAAATTTTTCTTTTT
CTTTTTATGATGAATAAGGTTAAATAAAAAGCCTTAGACAAATTAAATTTGGCAGAGTTTAATTGAGCAAAGGAC
AATTCACAAATCAGGTAGCCCCCTGAACCATAATAGGCTCAGAGGCTTCAGCCCAGCTGCATAGTTGAAGATTTAT
GGACAGAAGGAAAGTGATGTATGGAAAATGGAAGTGAGATACAGCAACAGCCGGATTAGTTACAGTTCAGCGTTT
GCCTTATTTGAATATGGTTTGAACAGTTCGCTGTCTTTGGTTGGCTGAACTTAGTGATTGCCACAAGAGTAGGG
TACCGTCTGTTTACACGTCCAGTTAGGCTACAGTTCTATGTACTGAGAAACCTTTAAGCTGAACCTTGAGATATGT
AAAGAGACTTTAGGCTAACTTAACAATATATATAGGAATATATCCCTTCTACTTCACATGCACTGAATATGCAT
TTTATTGCTTTACTCTTCATTCTGTGGCACCTACCCACAGGGGAAGTAAGAAGTTTGTTTTGGTATTTTCGGAAC
TAAAGTCCTTATGGGATGGGGTCTAGAATTGATTCTCCTTTCTGAGTTTACTCCACGGAGTCTTAGGTACCTG
GTAAAAAGTTGTCTTCTAAATTAAGGGTCATTGCTTTGTTGTCTAGCTGCTAATGTCTTACTTTTGTCTTTTG
CTTTTTAATCAGTTCTTAATAGGATATAGTTTTATGTTTTCCAAGTTATAACTTGGAGTTAATGGTCACTAGATT
ATCAGTTATGAGCAGTGTTAAATCTCCTATTAATGTGTAATGTACCTGTCAGTGCCTCCTTTATTAAGGGGTTT
TTTGAGAATAAAAGAGAAAAGACCTACTTTATTTGACAGCAAAAAAAAAAAGGAATTC

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FIGURE 346

MKLVRFLMKLSHETVTIELKNGTQVHGTTITGVDVSMNTHLKAVKMTLKNREPVOLETLSIRGNNIRYFILPDSL
LDTLLVDVEPKVKSCKREAVAGRGRGRGRGRGRGRGRGRGRGGPRR

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FIGURE 347

GAGTGGCTGTTGAGCGGCGCCGCGGGAGTTCCGCAGGTTTCCCGTGTTCGCAGCGGAGCCGGAGGCCAGCTGAAC
CCGGCCGTGGGATCCCGGATAGGAGGAGGAGGGGACCCATAGGACGCGTTAACATGGACCTGGAAAACAAAGTGA
AGAAGATGGGCTTAGGTCACGAGCAAGGATTTGGAGCCCCCTGTTTAAAATGCAAAGAAAATGTGAAGGATTG
AACTGCACCTTCTGGAGAAAAATATGTCGTAAGTCAAGTGTGGCCAAGAAGAGCATGATGCTCTTTGAGCAATG
GATCGAAAAGTGGGAAAACTTTTGAAGACACCAAGTATACCACTCTGATTGCAAACTAAAGTCAGATG
CCCATGTATAAACGCAATGTTATGATATTGACGAATCCAGTTGCTGCCAAGAAGAATGTCTCCATCAATA
TACCTATGAGTGGGCTCCTCCTGTCCAGAATCAAGCATTGGCCAGGCAGTACATGCAGATGCTACCCAAAG
AAGCAGCCAGTAGCAGGCTCAGAGGGGGCAGTACCGGAAGAAGCAGCTGGCAAAGCAGCTCCCTGCACATG
AGGACCCCTTCAAAGTGCCATGAGTTGTCTCCAGAGAGGTGAAGGAGATGGAGCAGTTTGTGAAGAAATATA
GAAGCTCTGGGAGTAGGAGATGTCAAACCTCCCTGTGAGATGGATGCCCAAGGCCCAACAAATGAACA
GGAGGGGATAGAAGCACCCAGCAGCAGTGGGGGCCATGGAGGACAAATCTGCTGAGCACAAAAGAACTC
ATCCTGTCTATTGCTGCAAACTGAGTATGAAAGAAGGTGACCCAGCCATCTATGCCGAAAGGGCTGGCTATG
AACTGTGGCACCCAGCTTGTGTTTGTCTGCAGCACCTGCCATGAACTCCTGGTTGACATGATTTATTTTTGGA
AATGAGAAGCTATACTGTGGCAGACATTACTGTGACAGCGAGAAACCCCGATGTGCTGGCTGTGACGAGCTGA
TATTCAGCAATGAGTATACCCAGGCAGAAAACCAGAATTGGCACCTGAAACACTTCTGCTGCTTTGACTGTGATA
GCATTCTAGCTGGGGAGATATACGTGATGGTCAATGACAAGCCCGTGTGCAAGCCCTGCTATGTGAAGAATCACG
CTGTGGTGTGTCAAGGATGCCACAATGCCATCGACCCAGAAGTGCAGCGGGTGACCTATAACAATTCAGCTGGC
ATGCATCCACAGAGTGCTTTCTGTGCTCTTGCTGCAGCAAATGCCTCATTGGGCAGAAAGTTCATGCCAGTAGAAG
GGATGGTTTTCTGTTTCAAGTGAATGTAAGAAGAGGATGTCTTAGGAGGAGGGCACCCAGAAGTATCGAGCCATAG
CTATCCAAAGTGGTCTGCATTTCTACTGTAAAATGCAATTTGAAAAAATAAAACGCAAAAAAGAACTGTAA
GGAAACCAAGAGATTTTGTGTTAATTTTTTTGGCCATTTTTTCTTCATCAATTTTTTTTCGGTCTCACTTTTAA
CTTGGTTTAAAGCATTTGATTTGTAAAACAGTAAATAATTGTATCTTTCCATAGCTTTTCAAATGTGAAATCATTT
TTGGAAGCTTGGATCTCATTAACTTCATGTCTCTATTCCATTTGTGCCACACACTTAAAAGTTAGTGTACTGAA
TGGAAAGATGAGCATTCTAGTTCTACACTTCTTTTTTCCCCCTCATGTGTAAAATGAAAAGAAAATAAATTTG
CCCTAATAACCAAGGGCGCTACGTTTATTGCCTCGTCTTATTCACTGACCTTTGTAATGATACACAGTGAATTTCT
TTTGACAAAGAGAAATGCAGTGTAGTATGCAGAGCTGCTGTTTTAATGCCCTATGCATTTACTCTTTCTGATTT
AGGCAGAGGTGGCATTCTTTATTGCATTTCTCTATTTTTTAAATGTACCCTACCTTCAGTATTCTCTTTGTAA
GTTGGTGAAGTGCATCTGTGGCCTTGAATATTTTATTATCACATGTGGCATAACAGTATCCACACTTTTTAGTTC
TTTATTTTTTTTTTTTTTTTTTTGAGCAATTCTCCTGCCTCAGCTCCCAAATAGCTGGGATTACAGGTGCATGCCA
CCACACCCAGCTAATTTTTGTATTTTTTAGTAGAGACAGGTTTTACCATGTTAGCCAGGCTGGTCTCAAACCTCT
GACCTCAGATGATCCGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGGGAGCCACCATGCCTGACCC
ACACACTTTTTACTTGTATAGATGATTTTTGGCTTGGACATAAAAGCCAAGCCACCCATTTGCTTTTAAATCCAAA
GAACATGTATAGTTTTTTGTACCCAGAGACTATGATTTATATTGATTGCACTTGCCTGCCATGATTTAGATAAGAT
TTTTTTGCAAGTTTTTTTATTCTTTCTTAATGGATCCTGTTTTATAATACTTCCAAGCCTGTCCATGGATATATC
AAATGTCTTCACTTGTATGTTTTCATGGCTAGGTATTTCTAATGTTTATTCTTCCCTGTGTACTTCTACACATAG
CTATGCACATGAAAATTAAATGGAATGAATGATATGATATTACTCAAATAAAGTTTCTTTCACTTTAAAAAA
AAAAAAAAAAAAAA

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FIGURE 348

MDLENKVKKMGLGHEQGFAPCLKCKEKEGFEHFWRKICRNCKCGQEEHDVLLSNEEDRKVGKLFEDTKYTTL
IAKLKSDGIPMYKRNVMILTNPVAAKKNVSINTVTYEWAPPVQNQALARQYMQMLPKEKQPVAGSEGAQYRKKQL
AKQLPAHDQDPSKCHELSPREVKEMEQQFVKYKSEALGVGDVKLPCEMDAQGPKQMNIPGGDRSTPAAVGAMEDK
SAEHKRTQYSCYCKLSMKEGDPAIYAERAGYDKLWHPACFVCSTCHELLVDMIFYWKNEKLYCGRHYCDSEKPR
CAGCDELIFSNEYTQAEQNWHLKHFFCCDCDSILAGEIYVMVNDKPVCKPCYVKNHAVVCQGCHNAIDPEVQRV
TYNNFSWHASTEFLCSCCSKCLIGQKFMFVEGMVFCVSVECKKRMS

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FIGURE 349A

GCACCTGCTGCTGCCACCGCCGTCGCGCCGCGCCGCGCCGCTGCTGCTGCCGGTGCTAAGGAGTTGCTGGA
GCCCTTTCCTCAGACCCGCGCCGCTTTCGCGCCCGGACTCCTGGCGCCAGCGCTAGGCGCACTACCGCTCTGA
CGGGTGAGACGCGGGAGTTGTCCAGACTGTGGAGTGGCGGGCACGGCCCCAGCCCCCTTCCCTTCCCTGACC
CCTTCTTGCCATCGCCCCAGACATGGGGAACGCGCGGACCGCCAAGAAAGGCAGCGAGGTGGAGAGCGTGAAAGA
GTTTCTAGCCAAAGCCAAAGAAGACTTTTGAAGAAATGGGAGAATCCAACCTCAGAATAATGCCGGACTTGAAGA
TTTTGAAAGGAAAAAACCTTGGAACAGGTTCAATTGGAAGAGTCATGTTGGTAAACACAAAGCCACTGAACA
GTATTATGCCATGAAGATCTTAGATAAGCAGAAGGTTGTTAACTGAAGCAAATAGAGCATACTTTGAATGAGAA
AAGAATATTACAGGCAGTGAATTTTCCCTTCCCTGTTTCGACTGGAGTATGCTTTTAAGGATAATTCTAATTTATA
CATGGTTATGGAATATGTCCCTGGGGGTGAAATGTTTTACATCTAAGAAGAATTGGAAGGTTTCAGTGAGCCCCA
TGCACGGTTCTATGCAGCTCAGATAGTGCTAACATTGAGTACCTCCATTCACTAGACCTCATCTACAGAGATCT
AAAACCTGAAAATCTCTTAATTGACCATCAAGGCTATATCCAGGTCACAGACTTTGGGTTTGCCAAAAGAGTTAA
AGGCAGAACTTGGACATTATGTGGAACCTCCAGAGTATTGGGCTCCAGAAATAATTCTCAGCAAGGGCTACAATAA
GGCAGTGGATTGGTGGGCATTAGGAGTGCTAATCTATGAAATGGCAGCTGGCTATCCCCATTCTTTGCAGACCA
ACCAATTCAGATTTATGAAAAGATTGTTTCTGGAAAGGTCGATTCCCATCCCACTTCAGTTCAGATCTCAAGGA
CCTTCTACGGAACCTGCTGCAGGTGGATTGACCAAGAGATTGGAATCTAAAGAATGGTGTGAGTGATATAAA
AACTCACAAGTGGTTTGGCCAGCAGATTGGATTGCTATTTACCAGAGGAAGGTTGAAGCTCCATTCAACAAA
GTTTAGAGGCTCTGGAGATACCAGCAACTTTGATGACTATGAAGAAGAAGATATCCGTGTCTCTATAACAGAAAA
ATGTGCAAAAGAATTTGGTGAATTTTAAAGAGGAACAAGATGACATCTGAGCTCACACTCAGTGTGTTGCACTCTG
TTGAGAGATAAGGTAGAGCTGAGACCGTCTTGTGTAAGCAGTTACCTAGTTCCCTTCATTCCAACGACTGAGTGA
GGTCTTTATTGCCATCATCCCGTGTGCGCACTCTGCATCCACCTATGTAACAAGGCACCGCTAAGCAAGCATTGT
CTGTGCCATAACACAGTACTAGACCACCTTTCTTACTTCTCTTTGGGTTGTCTTTCTCCTCTCCTACATCCATTT
TTCCTTTTCCAATTTCAATTGTTTCTCTAAACAGTGCTCCATTTTATTTTGTGTTGTTTCAGATGGGCAGTGT
TATGGCTACGTGATATTTGAAGGGAAGGATAAGTGTGCTTTTCAGTAGTTATTGCCAATATTGTTGTTGGTCAAT
GGCTTGAAGATAAACTTTCTAATAATTATTATTTCTTTGAGTAGCTCAGACTTGGTTTGGCCAAACTCTTGGA
ATTTTGAAGATAGACTGTCTTATCACCAGGAATTTATACAAATTAAGACTAACTTTCTTGAATTCACATTT
CTGGCAATAAATTTGGTAGACTAATACAGTACAGCTAGACCCAGAAATTTGGAAGGCTGTAGATCAGAGGTTCT
AGTTCCCTTTCCCTCCTTTTATATCCTCCTCTCCTTGAGTAATGAAGTGACCAGCCTGTGTAGTGTGACAAACGT
GTCTCATTACGAGGAAAACTAATGATATGGATCATCACCCAGATTCTCTCACTTGGTACCAGCATTTCTGTAG
GTATTAGAGAAGAGTTCTAAGTTTCTAAACCTTAAGTGTCTTAAAGGATTTTAGCCAGTATTTTAATAGAACA
TGATTAATGAAAGTGACAAATTTTAAATTTTCTCTAATAGTCTCATATAAACTTTTTAAAGGAAAAAAGCAA
ACTAAAAAGAACATTGGTTTATGATAAATACTTATACTTTGCAAAGTCAAAAATGGCTTGATTTTGGAAACAATA
TAGAGGTATTCAATTTAAATGAGGGTTTACATTTGTTTTGTTTTGTAACCGTTAAAAAGAAGTTGTTTCCAGCT
AATTATTGTTGTTGTTACTATATTTGTGAGCCTAGGGTAGGGGCACTGCTGCAACTTCTGCTTTCATCCCATGCCTC
ATCAATGAGGAAAGGGAACAAAGTGATAAACTGCCACAATTGTATTTTAAATTTTGAAGGTATGATATTTTCTAGA
TATTTCTAATTTCTAACCTCTGTTCTCTCAGTAAACAGAATGTCTGATCGATCATGCAGATACAATGTTGGTAT
TTGAGAGGTTAGTTTTTTTCTACACTTTTTTTTGGCAACTGACTTAACAACATTGCTGTGAGGTGGAAATTTCA
AGCACTTTTGCACATTTAGTTTCAGTGTGTTGTTGAGAATCCATGGCTTAACCCACTTGTGTTGCTATTTTTTTCTT
TGCTTTTTAATTTTCCCATCTGATTTTATCTCTGCGTTTCAGTGACCTACCTTAAACAACACACGAGAAGAGTT
AAACTGGGTTCAATTTAATGATCAATTTACCTGCATATAAAATTTATTTTTAATCAAGCTGATCTTAATGTATAT
AATCATTCTATTTGCTTTTATTATCGGTGCAGGTAGGTCATTAACACCCTTCTTTTCTCTGTACACACCCCTGG
TGAAACCTTTGAAGACATAAAAAAACCTGTCTGAGATGTTCTTTCTACCAATCTATATGCTTTTCGGTTATCAA
GTGTTTCTGCATGGTAATGTGATGTAATGCTGATATTGATTTCACTGGTCCATCTATATTTAAACGTGCAAGA
AAAAATAAAATACTCTGCTCTAGCAAGTTTGTGTAACAAAGGCATATCGTCATGTTAATAAATTTAAACATC
ATTCGTATAAAATATTTAATTTTCTTGATTTCAATTAGACCCAAGAACATGCTGACCAATGTGTTCTATATGT
AACTACAAATTTATGGTAGCTTTGTTGTATATTATTGTAAATTTTAAATAAGTCATGGGGATGACAATTT
GATTATTACAATTTAGTTTTTCTAGTAATCAAAAAGATTCTATGAATTTTAAATAATTTTTTTCTATGAAATTA
CTAGTGCCAGCTGTAGAATCTACCTTAGGTAGATGATCCCTAGACATACGTTGGTTTTGAGGGCTATTACGCCA
TTCCATTTTACTCTCTATTTAAAGGCCGTGAGCAAGCTTGTGATGAGCAAAATATGTCAAGGGAGTCAATTTCTGA

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FIGURE 349B

CCAATCAAGTACACTAAATTAGAATATTTTTAAAGTATGTAACATTCCCAGTTTCAGCCACAATTTAGCCAAGAA
TAAGATAAAAACTTGAATAAGAAGTAAGTAGCATAAATCAGTATTTAACCTAAAATTACATATTTGAAACAGAAG
ATATTATGTTATGCTCAGTAAATAATTAAGAGATGGCATTGTGTAAGAAGGAGCCCTAGACTGAAAGTCAAGACA
TCTGAATTTCAGGCTGGAAAACATCAGTATGATCTCAGCCTCAGTTCTTGTCTGTAAAATGGAAGAAGTGA
TTAGGCAGTTTGTAAAGATTCCCTCCTAACTTTACAGTCGATGACAAGATTGTCTTTTTATCTGATATTTTGAAGG
GTATATTGCTTTGAAGTAAGTCTCAATAAGGCAATATATTTTAGGGCATCTTCTTCTTATCTCTGACAGTGTTT
TTAAAATTATTTGAATATCATAAGAGCCTTGGTGTCTGTCCTAATTCCTTCTCACTCACCGATGCTGAATACCC
AGTTGAATCAAACGTGCAACCTACCAAAAACGATATTGTGGCTTATGGGTATTGCTGTCTCATTCTTGGTATATT
CTTGTGTTAACTGCCCATTGGCCTGAAAATACTCATTGTAAGCCTGAAAAAAAAAATCTTCCCACTGTTTTTTC
TGCTTGTTGTAAGAATCAAATGAAATAATGTATGTGAAAGCACCTTGTAACCTGTAACCTATCAATGTAAAATGT
TAAGGTGTGTTGTTATTTTCAATTAATTACTTCTTTGTTTAGAATGGAATTCCTATGCACTACTGTAGCTAGGAAA
TGCTGAAAACAACTGTGTTTTTTAATTAATCAATAACTGCAAAATTAAAGTACCTTCAATGGATAAGCCAAAAAA
ATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCAGGAATTCGATATCAGCTTATCATACC

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FIGURE 350

HCCCHRRRRRAAAPLLLPVLRSSLEPPQTRPGLRARTPGASARRTHRS DGCRRGSCPRLWSGGHGPSPPSLPXP
LLAIAPDMGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLED FERKKTILGTGSFGRVMLVKHKATEQ
YYAMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVMEYVPGGEMFSHLRRIGRFSEPH
ARFYAAQIVLTFEYLHSLDLIYRDLKPENLLIDHQGYIQVTDGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNK
AVDWWALGVLIYEMAAGYPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVSDIK
THKWFATTDWIAIYQRKVEAPFIPKFRGSGDTSNFDDYEEEDIRV SITEKCAKEFGEF

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FIGURE 351

CCAGCCCCCTTCCCTTCCCTGACCCCTTCTTGCCATCGCCCCAGACATGGGGAACGCGGCGACCGCCAAGAAAG
GCACCGAGGTGGAGAGCGTGAAAGAGTTTCTAGCCAAAGCCAAAGAAGACTTTTTGAAAAAATGGGAGAATCCAA
CTCAGAATAATGCCGGACTTGAAGATTTTGAAGGAAAAAAACCCCTTGAACAGGTTTCAATTGGAAGAGTCATGT
TGGTAAACACAAAGCCACTGAACAGTATTATGCCATGAAGATCTTAGATAAGCAGAAGGTTGTTAACTGAAGC
AGAGCATACTTTGAATGAGAAAAGAATATTACAGGCAGTGAATTTTCCTTTCCTTGTTCGACTGGAGTATG
TAAGGATAATTCTAATTTATACATGGTTATGGAATATGTCCCTGGGGGTGAAATGTTTTACATCTAAGAA
TTGGAAGGTTTCAGTGAGCCCCATGCACGGTTCTATGCAGCTCAGATAGTGCTAACATTTCGAGTACCTCCATT
TAGACCTCATCTACAGAGATCTAAAACCTGAAAATCTCTTAATTGACCATCAAGGCTATATCCAGGTCACAG
TGGGTTTGCCAAAAGAGTTAAAGGCAGAACTTGGACATTATGTGGAACCTCCAGAGTATTTGGCTCCAGAAA
TCTCAGCAAGGGCTACAATAAGGCAGTGGATTGGTGGGCATTAGGAGTGCTAATCTATGAAATGGCAGCTG
TCCCCCATTTCTTTCAGACCAACCAATTTCAGATTTATGAAAAGATTGTTTCTGGAAGGTCGATTCCCAT
CTTCAGTTCAGATCTCAAGGACCTTCTACGGAACCTGCTGCAGGTGGATTGACCAAGAGATTGGAATC
AAGAATGGTGTCTAGTGATATAAAAACCTCACAAGTGGTTTGCCACGACAGATTGGATTGCTATTTACCAGAGGA
ATTGGAAGCTCCATTACATACAAAGTTTAGAGGCTCTGGAGATACCAGCAACTTTGATGACTATGAAGAAGAAG
ATATCCGTGTCTCTATAACAGAAAAATGTGCAAAAGAATTTGGTGAATTTTAAAGAGGAACAAGATGACATCTGA
GCTCACACTCAGTGTTTGCACCTCTGTTGAGAGATAAGGTAGAGCTGAGACCGTCTTGTGGAAGCAGTTACCTAG
TTCCTTCAATCCAACGACTGAGTGAGGTCTTTATTGCCATCATCCGTGTGCGCACTCTGCATCCACCTATGTAAC
AAGGCACCGCTAAGCAAGCATTGTCTGTGCCATAACACAGTACTAGACCACCTTCTTACTTCTCTTTGGGTGTG
TTTCTCTCTCTACATCCATTTCTTCCCTTTTCAATTTTCAATTTGTTTCTCTAAACAGTGCTCCATTTTATTTG
TTGGTGTTCAGATGGGCAGTGTTATGGCTACGTGATATTTGAAGGGAAGGATAAGTGTGCTTTCAGTAGTTAT
TGCCAATATTGTTGTTGGTCAATGGCTTGAAGATAAACTTTCTAATAATTATTATTTCTTTGAGTAGCTCAGACT
TGGTTTTGCCAAAACCTCTTGGTAATTTTGAAGATAGACTGTCTTATACCAAGGAAATTTATACAAATTAAGAC
TAACCTTCTTGAATTCATCTATTCTGGCAATAAAATTTGGTAGACTAATACAGTACAGCTAGACCCAGAAATTTG
GAAGGCTGTAGATCAGAGGTTCTAGTTCCTTTCCCTCCTTTTATATCCTCCTCTCCTTGAGTAATGAAGTGACC
AGCCTGTGTAGTGTGACAAACGTGTCTCATTTCAGCAGGAAAACTAATGATATGGATCATCACCCAGATTCTCTC
ACTTGGTACCAGCATTCTGTAGGTATTAGAGAAGAGTTCTAAGTTTTCTAAACCTTAACTGTTCCCTTAAGGATT
TTAGCCAGTATTTTAATAGAACATGATTAATGAAAGTGACAAATTTTAAATTTTCTCTAATAGTCCCTCATCATAA
ACTTTTTAAAGGAAAATAAGCAAACTAAAAAGAACATTGGTTTAGATAAATACTTATACTTTGCAAAGTCAAAAA
TGGCTTGATTTTGGAAACAATATAGAGGTATTCATATTTAAATGAGGGTTTACATTTGTTTTGTTTTGTAACCG
TTAAAAAGAAGTTGTTTCCAGCTAATTATTGTGGTGTACTATATTTGTGAGCCTAGGGTAGGGGCACTGCTGCAA
CTTCTGCTTTTATCCCATGCCCTCATCAATGAGGAAAGGGAACAAAGTGATAAAACCTGCCACAATTGTATTTTA
ATTTTGAGGTATGATATTTTCAGATATTTTATAATTTCTAACCTCTGTTCTCTCAGTAAACAGAATGTCTGATCG
ATCATGCAGATACAATGTTGGTATTTGAGAGGTTAGTTTTTTTCTTACACTTTTTTTTGCCAACTGACTTAACAA
CATTGCTGTGAGGTGGAAATTTCAAGCCTTTTGCACATTTAGTTTCAGTGTTTGTGAGAATCCATGGCTTAACC
CACTTGTTTTGCTATTTTTTTCTTTGCTTTTAAATTTCCCATCTGATTTTATCTCTGCGTTTCAGTGACCTACC
TTAAAAACAACACACGAGAAGAGTTAACTGGGTTTCAATTTAATGATCAATTTACCTGCATATAAAATTTATTTTT
AATCAAGCTGATCTTAATGTATATAATCATTCTATTTGCTTTTATTATCGGTGCAGGTAGGTCATTAACACCACTT
CTTTTCATCTGTACCACACCCTGGTGAAACCTTTGAAGACATAAAAAAACCTGTCTGAGATGTTCTTTCTACCA
ATCTATATGTCTTTCGGTTATCAAGTGTTTCTGCATGGTAATGTCATGTAAATGCTGATATTGATTTCACTGGTC
CATCTATATTTAAACGTGC

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FIGURE 352

MGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKT LGTGSFGRVMLVKHKATEQYYAMKIL
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMMEYVPGGEMF SHLRRIGRFSEPHARFYAAQ
IVLTFEYLSLDLIYRDLKPENLLIDHQGYIQVTDGFAKRVKGRTWTLCGTPEYLAPEI ILSKGYNKAVDWWAL
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVSDIKTHKWFAT
TDWIAIYQRKVEAPFIPKFRGSGDTSNFDDYEEEDIRVSITEKCAKEFGEF

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FIGURE 353A

CCCGGGCGAGCCCGCGGTGCGCACAGCTCTGCCCGCGCCCTGGAGCGGATCCCCAGCCGTCCCTGGGCGTTCT
CCCGGGTTCTAGCAAAGCCCCCGGGGTGCCCATCAGTTTCCTTGGGTGACTACAGCGTGTGTTTTTCTTTCTCT
CTTTCCCTGCTGTGTGCCCTTCTCCAGGATGGCAGAGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCA
GAAAAAAGAAAGAGGCAGACTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCAT
TCCAAGTCCAAAGTGCTTCGGGAGAAATGGCTGCTGCAGGGCATACCCGCTGGAAGTCCGAAGAGGAGGAAGCC
AGGAGGCGGCAGTCTGAAGAGGATGAGTTCAGAGTCAAGCAACTTGAAGATAACATTGAGAGGCTGGAGCAAGAA
ATACAAACGCTAGAAAGTGAAGAGTCCCAGATATCTGCCAAAGAGCAAATCATCCTAGAGAACTGAAGGAAACA
GAAAAATCCTTCAAGGACTTTCAGAAGGGTTTCTCCAGTACGGATGGAGATGCAGTAAATTACATTTCTCTCCAG
CTTCCCCGACCTGCCAATCCTCTGTTCACGAACAGCAGAACCATCACCTGGGCAGGACGGGACCAGCAGAGCGGCT
GGAGTCCGGTGGGAGAAATGTGCTGCTAAAGGAAGGTGAGTCAGCCTCGAACGCCACAGAAACATCCGGCCCAGAC
ATGACTATCAAGAAGCCTCCCCAGCTTTCTGAGGATGATATCTGGCTAAAAAGCGAGGGAGACAACTATAGTGCC
ACCCCTCTGGAGCCTGCTGCCAGCTCTCTTTCCCCAGATCAGAAAAACATGGAAATTGAGGTGTCTGTTGCAGAA
TGTAAGGTGTTCTGGAATCACCTCTACCCACATCCCATGGACCATCCCTCCGCTTTCTATTACCCCCGCAT
AATGGCCTCCTTACTGATCACCACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
CTAGAGGCCAACTGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCTCCCCAGAGCCTGGTGCAGTG
GTTCTGGTGGGCGGCCTAAGCCCCCTGTCCACGAGGCGACCCAGCCAGAACCCACTGAAAGAACAGCTAGCCGG
CAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCCATGGCAGAGGCAGAAAGAACAATGGCCAT
TCCCCAGCCAGCCTAGAGATGCGCTGGGGGACAGCCTGCAGGTGCCTGTCAGCCCCAGCTCCACAACCAGCTCA
CGGTGTTCTTCCCAGATGGAGAGTTCACTCTCACCACACTGAAAAAGGAGGCCAAGTTTGAGCTGCGTGCCTTC
CATGAGGACAAGAAGCCCTCCAAGCTCTTTGAGGATGACGAGCATGAGAAAGAACAATACTGCATTAGAAAAGTG
AGGCCTTCAGAGGAGATGCTGGAGCTGGAAGGAGAGAGAGAGCTCATCCGCAGCCAGGCCGTCAAGAAGAAT
CCTGGCATTGCAGCAAAATGGTGAATCCCCCGCAGGAAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTG
GAGTCGCACAAAAAGTACAAGGAGCGCAAAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAAGCAGTTA
CAGCAGCAGCAGCAGCAGCCCCATCGCAGCTCTGCACAGCCCTGCCTCTTCTCATGAACGCGCAAGCATGATT
GACAAAGCAAAGGAGGACATTGTACAGAGCAGATAGATTTCTCTGCTGCTCGCAAACAATTTTCACTGATGGAG
AATTCCAGGCAAGCGGTGGCCAAGGGCCAGAGTACCCAGGCTGTTCTCCATCAAGCCTTTCTACAGGCCTCTG
GGGTCACTCAACTCAGACAAGCCACTGACTAATCCGAGACCACCTTCTGTGCGGGGACCTCCAGAAGACAGTGGT
GCCTCAGCCGCCAAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCATCGGCAGCAGGAAGCCAGGGCAACACA
GCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTGGGCCCTTATCTAAACTGTGGGCTGAGGAT
GGAGAATTTACGAGCGCCCGGGCTGTCTCACTGTGGTCAAGGATGATGACCATGGGATTTTGGATCAGTTCTCA
AGATCTGTCAATGTCTCCTTGACCCAAGAGGAGCTTGACTCTGGTCTGGACGAATTGTGCGGTGAGGTCTCAGGAT
ACCACAGTCTTGAGACCCCTATCCAATGATTTTCACTGATGGACAACATCAGTGACAGCGGGGCATCCAATGAGACA
ACCAATGCCCTCCAGGAAAATTTCACTGGCTGATTTTTCTCTGCCCCAGACACCACAACTGACAACCCCTCAGAG
GGCCGAGGAGAAGGCGTCTCCAAGTCATTTAGTGATCATGGTTTTCTATTCCCCTTCTCCACGCTGGGGGACTCT
CCGTTGGTTGATGACCCCTTGAGATATCAGGCTGGCCTCCTGGTGCAGAATGCCATTCAACAAGCCATAGCCGAG
CAGGTGGATAAAGCTGTGTCCAAAACCAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
GCTGAAGCTGCGGCTTTTCGGCTCAGAAAAGCCTCAGAGCATGTTTGAGCCACCTCAGGTGTCTTCTCCTGTTCAA
GAGAAAAGGGATGTATTACCAAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAAGGGGGCCCCCCCCAGCCA
CTGCCAGCTGTGCAGCCAGTGGCCCGATTAAACATGGAGGAGACCAGGCCCGAAGGAAGCTATTTTCAAGCAAGTAC
TCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAAGAATCTGACGTGATGGTTGGGCCCTTTC
AAGCTGAGGTCCAGGAAACAGCGGACTTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGAAGAG
GAGCTGAAGAGGCAGAGACAAGTCTTGAGAGTACGAGAGCCCCAGGACAAAGAATGCCCATCACTGCCCTCC
AGAACATGCTACAAAATGCTCCAGGGAAAATAGAGAAAGTCAAACCTCCTCCATCCCCACCCTGAAGGCCCC
AGCTTGACGCTGACTTAGCCCCCTGAAGAGGCTGCCGGAACCCAGCGGCCCAAGAATCTGATGCAGACCCTCATG
GAAGACTATGAGACACACAAATCTAAAAGGCGGAGAGAATGGATGATAGTAGTTACACTTCTAAGTTACTGTCT
TGCAAGGTGACTTCCGAGGTCTCGAGGCCACACGGGTTAATCGAAGAAAGAGCGCACTGGCTTTGCGCTGGGAA
GCAGGGATCTATGCCAACCAGGAGGAAGAAGACAACGAATAAATCTCCTTCAACCCAGGAAGCGTCTTTGGTGCT
TGGGAGACCAAGAAACCAAGAAATTAACAACCTGAAAGCATTTTAAATGGACTATTTATTAAAGTGCAAAACAACCTC

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FIGURE 353B

[illegible]

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FIGURE 353C

TGAATATATTCCATTTTAGTTAAAGAACAATTCCTGAATTTTAAGCATTTCAGTGAGCTGCCAATTTTGATTTT
GTGTTGCTCTTTACCCAAATTATTTTTCTTTGTTTTCTTTTTTTGGGGGAGGAGGGGAAAAAGCAGCAATAC
TGTGTTTGAAATTATACTCTGTATCTGGTTTTCTGTGTATGTTAACCCTTAAATGTTATTATCCTGCTTTGG
TTTTAGAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTCTCATTAAAAATCCAATGTGTGTTGAGTTT
TTATAAAAAAAAAAAAAAAAAA

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FIGURE 354

MAEAE LHKERLQAIAEKRRQTEIEGKRQQLDEQILLQHSKSKVLREKWLLQGIPAGTAE EEEARRRQSEEDF
RVKQLEDNIQRLEQEIQTLESEESQISAKEQIILEKLEKTEKSFKDFQKGFSSDGDVANYISSQLPDLPIILCSR
TAEPSPGQDGTSTRAAGVGWENVLLKEGESASNATETSGPDMTIKKPPQLSEDDIWLKSEGDNYSATLLEPAASSL
SPDHKNMEIEVSVAECKSVPGITSTPHPMDHPSAFYSPPHNGLLTDHHESLDNDVAREIRYLDEVLEANCCDSAV
DGTYNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTASRQAPPHIELSNSSPDPMAEAERTNGHSPSQPRDALG
DSLQVPVSPSSTTSSRCSSRDGEFTLTTLKKEAKFELRAFHEDKKPSKLFEDDEHEKEQYCIRKVRPSEEMLELE
KERRELIRSQAVKKNPGIAAKWWNPQEKTIEEQLDDEEHLESHKKYKERKERRAQOEQLLLQKQLQQQQQQPPSQ
LCTAPASSHERAS MIDKAKEDIVTEQIDFSAARKQFQLMENS RQAVAKGQSTPRLFSIKPFYRPLGSVNSDKPLT
NPRPPSVGGPPEDSGASAAKGQKSPGALETPSAAGSQGNTASQGKEGPYSEPSKRGPLSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSVRSQD TTVLETLSNDFSM DNI SDGASNETTNALQENSLA
DFSLPQTPQTDNPSEGRGEGVSKSFSDHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTS
RDGAEQQGPEATVEEAEAAAFGSEK PQSMFEPQVSSPVQEKRDVLPKILPAEDRALRERGFPQLPAVQPSGPI
NMEETRPEGSYFSKYSEAAELRSTASLLATQESDVMVGPFKLRSRKQRTLSMIEEEIRAAQEREEELKRQRQVLQ
STQSPRTKNAPSLPSRTCYTAPGKIEKVKPPPSPTTEGPSLQPD LAPEEAAGTQRPKNLMQTLMEDYETHKSKR
RERMDSSYTSKLLSCKVTSEVLEATR VNRKKSALALRWEAGIYANQEEEDNE

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FIGURE 355

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCCGGCCGGCCGCGAGCCATGAACTCCAACGTGG
AGAACCTACCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTACCATCGAGGGCCCTGAGGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA
GATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
GGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGCGGGCCGCTGCTCTTGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
AGGCGCCGGCGGGCCCAGCGGCAGGGCCGAAGCCGGTTCGGGCCCTGGCCAGTGGCACTGAAGCTTCCTCCACCG
TGGGGCCCCAGGGGGCCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
TGGCGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGGCGCTGCGGCGGCTGTAGTGGGCTCTCTTC
TCCACCGTGACCCCAACCTCTCCTGTCCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGG
GGGAGGGTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAGTTGGAAAAGCA

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FIGURE 356

MNSNVENLPPIIRLVYKEVTTLTADPPDGIKVPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLLGKDFPASPP
KGYFLTKIFHPNVGANGEICVNLKRDWTAELGIRHVLLTIKCLLIHPNPESALNEEAGRLLLENYEEYAARARL
LTEIHGGAGGPGRAEAGRALASGTEASSTDPGAPGGPGGAEGPMAKKHAGERDKKLAAKKTDKKRALRALRRL

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FIGURE 357A

TCGGAGTGCCGCCCCGCGCCCCGAGTCGGTCTCGAGCCGCGCGCCGCGCGTGCCTGTCCGTAGGCGCTGCGCC
CTCGGCCGGGCCCCATGTGTGTGCGGCCCGCCGAGGCCGCGCGGGCTTTGCCTCCACCAGCGCCCTGGCCTCCGC
TCGGGCCTCCACACGGGCCTCCGAAGAGCTGCCGCGACGCCCGGCCCGCAGGGCAGGTAAAAGAGATTATAAATCT
TCCACTGAATGAAAAAAATTTTCTTAAAGCTGCATATACTCCAAGAAAAAACCACAAATGTTTTCTGTTTTGCG
CTGAATACATGATTTAAACAAGAGATTTCCACAGAAGCTCTGCGGCCGTCACGATGTTCTGGAAGTTTGACTTGA
ACACCACGTCCCATGTTGACAAGCTGCTGGACAAGGAGCATGTGACGCTGCAGGAGTTAATGGATGAAGATGACA
TCTTGACAGGAGTGTAAGGCTCAGAACCAGAAGCTGCTGGACTTCTGTGTCAGGCAGCAGTGCATGGAGGAGCTGG
TGAGCCTCATCACACAGGATCCGCCCCCTGGACATGGAGGAGAAGGTCCGCTTCAAATATCCAAACACAGCCTGTG
AGCTTCTGACTTGTGATGTGCCGAGATCAGCGACCGCCTCGGTGGGGACGAGAGCCTGCTGAGCCTCCTGTACG
ACTTCTTGACCATGAGCCGCCTCTCAATCCTCTGCTCGCCAGTTTTTTCAGCAAGACCATTGGCAATCTCATTG
CAAGAAAAACCGAACAGGTGATTACGTTTTTGAAGAAGAAGGACAAGTTCATCAGCCTGGTGTGAAGCACATCG
GCACCTCAGCGCTTATGGACCTGCTGCTGCGCCTGGTCAGCTGTGTGGAGCCAGCCGGGCTCCGGCAGGACGTCC
TGCACTGGCTGAATGAAGAGAAGGTATCCAGAGGCTTGTGGAGTTGATCCACCCGAGCCAGGATGAAGATAGGC
AGTCAAATGCTTCTCAGACTCTCTGTGACATAGTTAGGCTGGGCAGAGACCAGGGCAGTCAGCTGCAAGAGGCTC
TGGAGCCAGACCCGCTCCTCAGCGCTGGAGTCGAGGACTGTGTGGAGCAGCTTCTGAAGAACATGTTTGATG
GAGACCGGACGGAGAGCTGCCTCGTCAGTGGGACTCAGGTGTTACTCACCTTGCTGGAAACCAGGCGGGTTGGGA
CAGAGGGCTTGGTGGACTCCTTTTCTCAGGGACTGGAAAGGTATACGCTGTCAGCAGCAGCGTACTACACGGCA
TCGAGCCTCGGCTGAAGGACTTCCACCAGCTCCTGCTCAACCCGCCCAAGAAGAAAGCGATCCTGACCACCATTG
GTGTGCTGGAGGAGCCCCCTGGGGAATGCCCCGCTGTCATGGCGCCCGCCTCATGGCAGCACTGCTGCACACAAACA
CACCCAGCATCAACCAGGAGCTCTGCCGGCTCAACACGATGGACTTACTGCTGGACTTGTTCTTTAAGTACACCT
GGAATAACTTTTTTGCACTTCCAAGTGGAACTATGCATAGCCGCTATTCTCTCCCACGCTGCCCCGTGAGGAGAGGA
CAGAAGCCAGCGGATCCGAGAGCAGGGTGGAGCCTCCGCATGAGAACGGGAACCGGAGCCTGGAGACTCCCCAGC
CGGCCGCCAGCCTCCCTGACAACACAATGGTGACCCACCTGTTCCAGAAGTGCTGCCTGGTGCAGAGGATCCTGG
AGGCTTGGGAAGCCAACGACCACACGCAGGCAGCGGTGGCATGAGACGTGGGAACATGGGCCACCTCACACGGA
TCGCCAACGCGGTGGTGCAGAACCTGGAGCGGGGCCCTGTGCAGACGCACATCAGCGAGGTATCCGAGGGCTCC
CTGCGGACTGCCGTGGCCGCTGGGAGAGCTTCGTGGAGGAGACGCTGACGGAGACGAACCGCAGGAACACTGTGG
ACCTGGCCTTCTCTGACTACCAGATCCAGCAGATGACAGCCAACTTCGTGGATCAGTTTGGCTTCAATGATGAGG
AGTTTGCCGACCAGGACGACAACATCAATGCCCCGTTTGACAGGATCGCAGAGATCAACTTCAACATCGACGCTG
ACGAGGACAGTCCAGCGCAGCTCTGTTTGAGGCTGCTGCAGTGACCGCATCCAGCCCTTTGATGATGATGAGG
ACGAGGACATCTGGGAGGACAGTGACACTCGCTGTGCTGCCCGGGTGTATGGCCAGACCCAGGTTTGGAGCCCCC
ATGCTTCAGAGAGTTGCTCAAAGAATGGCCCAGAGCGTGGAGGCCAGGATGGGAAGGCGAGCTTGAAGCACACA
GAGATGCACCTGGGGCAGGTGCCCCACCGCCCCCGGGAAGAAGGAAGCCCCCTGTGGAGGGTGACTCAGAAG
CAGGCGCCATGTGGACGGCAGTGTTTGATGAGCCAGCGAACTCAACGCCACAGCCCCAGGAGTGGTGAGGGACG
TGGGTTCCAGTGTGTGGCAGCTGGCACCTCAGCTCCAGAGGAGAAAGGCTGGGCCAAGTTCACTGACTTCCAAC
CTTTCTGCTGCTCCGAGTCAGGGCCAGGTGCAGCTCTCCGTTGGACACAGAATGCAGCCATGCTGAGGGCAGCC
GGAGCCAAGGCCCTGAGAAAGCCTTCAGCCCGGCTTCTCCATGTGCCTGGAACGTGTGTGTACCCAGGAAGGCC
CCCTGCTGGCCTCTGACAGTAGCTCCTCTGGGGGCTCCACAGCGAGGATGGCGACCAGAAGGCAGCGAGTGCCA
TGGATGCGGTGAGCAGGGGTCCCGGCCGGGAGGCCCCCCCGCTGCCACAGTGGCCAGGACAGAGGAGGCGGTGCG
GCAGGGTCCGGTGTGCTGACAGCCGGCTGTTAAGCCCTGCCTGCCCCGCGCCAAAGGAAGTGACTGCTGCCCCAG
CCGTGGCTGTGCCCCCGAGGCTACTGTGGCCATCACCACAGCACTGAGCAAGGCTGGCCCCGCCATACCCACCC
CAGCAGTCTCTTCTGCACTGGCCGTGGCGGTCCCCCTAGGGCCCATCATGGCAGTCACAGCAGCCCCAGCCATGG
TGGCCACCTTGGGGACAGTGACAAAGGACGGACAGATGCCCGGCCAGAAGGAGCTGCCTTAAATGGCCAGTGTG
ATGCTGCTGCCGCCCGGCCACGGCCACCCTGGTCAGGCTGCCTCCTTAATCGAGAAAACTACCTGGTGATGCAA
TCTTTTTTTTTTTAATTTAATTTAATTTTAAATAAATGCTGCATTGGTAAAGCTGGCAGTTGAAACCAGTTGGA
CGGCCAGCTTGCGTCTCTTCTGCTGAGTGGGCTCTCAGGTCACTCGTGCCCTGCTGGAGGACAGAGGGGCAC
CTCAGCCGCCCCCAAGCCAGAGCACAGCAATAAGGTGCGCCTGCAGGAGCCGGGGTGGGGTGGGGGGGGCAGG
ACCCTGAGATGCCACCAGGACCTGATGGGCCAGGAAGGGCGTGGACATGGAGGCTGTTTTTACAGTTTTTTTTTG
TTGTTGTTTTGTTTTTAAAGAATACAGAAGGAGCCAAGCTTTTTTGCACTTTGTATCCAGCTGCAAGCTCAGGGC

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FIGURE 357B

AGAGTCAAGGGCCTGGGTTGGAAAAACCTGACTCACAGGAATGCATAATTGACCCTTGCAGCTACCCAATAGCCC
TTGGAGCTGGCACTGAACCAGGCTGCAAGATTTGACTGCCTTAAAAACACAAGGCCCTCTAGGCCTGGCAGGGAT
GTCCCTGTGCCCAGCACAGGGTGCCTGGCAGGGGGAGACCACAGGTATGCAGGTGGGGGGACATGGTGTGGCACT
GGGGGCTCGAAGACTGGTTTCTAGCACTACCGGTCACGGCCATGTCGTCCTAGAAGGGTCCAGAAGATTATTTTA
CGTTGAGTCCATTTTAAATGTTCTGATCACCTGACAGGGCACCCCAAACCCCAACTCCCAATAAAAGCCGTGAC
GTTTCGG

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FIGURE 358

MFWKFDLNTTSHVDKLLDKEHVTLOELMDEDDILQECKAQNKLLDFLCRQQCMEELVSLITQDPPLDMEEKVRF
KYPNTACELLTCDVPQISDRLGGDESLLSLLYDFLDHEPPLNPLLASFSSKTIGNLIARKTEQVITFLKKKDKFI
SLVLKHIGTSALMDLLRLVSCVEPAGLRQDVLHWNEEKVIQRLVELIHPSQDEDRQSNASQTLCDIVRLGRDQ
GSQLEALEPDPPLLTALLESQDCVEQLLKNMFDGDRTESCLVSGTQVLLTLLLETRRVGTEGLVDSFSQGLERSYAV
SSSVLHGIEPRLKDFHQLLLNPPKKKAILTTIGVLEEPLGNARLHGARLMAALLHTNTPSINQELCRLNTMDLLL
DLFFKYTWNNFLHFQVELCIAAILSHAAREERTEASGSESRVEPPHENGNRSLTPQPAASLPDNTMVTHLFQKC
CLVQRILEAWEANDHTQAAGGMRRGNMGHLTRIANAVVQNLERGPVQTHISEVIRGLPADCRGRWESFVEETLTE
TNRRTVDLAFSDYQIQQMTANFVDQFGFNDEEFADQDDNINAPFDRIAEINFNIDADEDSPSAALFEACCSERI
QPFDDDEDEDIWEDSDTRCAARVMARPRFGAPHASESCSKNGPERGGQDGKASLEAHRDAPGAGAPPAPGKKEAP
PVEGDSEAGAMWTAVFDEPANSTPTAPGVVRDVGSSVWAAGTSAPEEKGWAKFTDFQPFCCSESGPRCSSPVDTE
CSHAEGSRSQGPEKAFSPASPCAWNVCVTRKAPLLASDSSSSGGSHSEDGDQKAASAMDAVSRGPGREAPPLPTV
ARTEEAVGRVGCADSRLSPACPAPKEVTAAPAVAVPPEATVAITTALSKAGPAIPTPAVSSALAVAVPLGPIMA
VTAAPAMVATLGTVTKDGQMPRQKELP

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FIGURE 359

GTTCCGGCGAGGAGGCCGCGCCAGTGACAGCGATGCGGGCGGAGTCGGCGCTCCAAGTTGTGGAGAAGCTGCAGG
CGCGCCTGGCCGCGAACC CGGACCCTAAGAAGCTATTGAAATATTTGAAGAACTCTCCACCCTGCCTATTACAG
TAGACATTCTTTCGGGAGACTGGGGTTGGGAAAACAGTAAATAGCTTGCGAAAACACGAGCATGTTGGAAGCTTTG
CCAGGGACCTAGTGGCCAGTGGAAGAAGCTGGTTCTGTGGAACGAAATGCTGAGCCTGATGAACAGGACTTTG
AGAAGAGCAATTCCCGAAAGCGCCCTCGGGATGCCCTGCAGAAGGAGGAGAGATGGAGGGGGACTACCAAGAAA
CCTGGAAAGCCACGGGGAGCCGATCCTATAGCCCTGACCACAGGCAGAAGAAACATAGGAAACTCTCGGAGCTCG
AGAGACCTCACAAAGTGTCTCACGGTCATGAGAGGAGAGATGAGAGAAAGAGGTGTCACAGAATGTCACCAACTT
ACTCTTCAGACCCTGAGTCTTCTGATTATGGCCATGTTCAATCCCCTCCATCTTGTACCAGTCCTCATCAGATGT
ACGTCGACCACTACAGATCCCTGGAGGAGGACCAGGAGCCCATTGTTTCACACCAGAAGCCTGGGAAAGGCCACA
GCAATGCCTTTTCAGGACAGACTCGGGGCCAGCCAAGAACGACACCTGGGTGAACCCCATGGGAAAGGGTTGTGA
GTCAAAACAAGGAGCACAAATCTTCCACAAGGACAAACGCCCCGTGGATGCCAAGAGTGATGAGAAGGCCTCTG
TGGTGAGCAGAGAGAAATCACACAAGGCCCTCTCCAAAGAGGAGAACCGAAGGCCACCCTCAGGGGACAATGCAA
GGGAGAAACCGCCCTCTAGTGGCGTAAAGAAAGAGAAGGACAGAGAGGGGCAGCAGCCTGAAGAAGAAGTGTGTC
CTCCCTCAGAGGCCGCTTCAGACAACCACCTGAAAAAGCCAAAGCACAGAGACCCAGAGAAAGCCAAATTGGACA
AAAGCAAGCAAGGTCTGGACAGCTTTGACACAGGAAAAGGAGCAGGAGACCTGTTGCCCAAGGTAAAGAGAAGG
GTTCTAACAACCTAAAGACTCCAGAAGGGAAAGTCAAACTAATTTGGATAGAAAGTCACTGGGCTCCCTCCCTA
AAGTTGAGGAGACAGATATGGAGGATGAATTCGAGCAGCCAACCATGTCTTTTGAATCCTACCTCAGCTATGACC
AGCCCCGGAAGAAAAAGAAAAAGATTGTGAAAACCTCAGCCACGGCACTTGGAGATAAAGGACTTAAAAAAATG
ACTCTAAAAGCACTGGTAAAACTTGGACTCAGTTCAGAAATTACCCAAGGTGAACAAAACCAAGTCAGAGAAGC
CGGCTGGAGCTGATTTAGCCAAGCTGAGAAAGGTGCCTGATGTGTTGCCAGTGTGTCAGACCTCCCGTTACCCG
CGATACAGGCCAATTACCGTCCACTGCCTTCCCTCGAGCTGATATCCTCCTTCCAGCCAAAGCGAAAAGCGTTCT
CTTACCCCCAGGAAGAAGAAGAAGCTGGATTTACTGGGCGCAGAATGAATTCCAAGATGCAGGTGTATTCTGGTT
CCAAGTGTGCCTATCTCCCTAAAATGATGACCTTGCAACAGCAATGCATCCGAGTACTTAAAAACAACATCGATT
CAATCTTTGAAGTGGGAGGAGTCCCATACTCTGTTCTTGAACCCGTTTTTGGAGAGGTGTACACCTGATCAGCTGT
ATCGCATAGAGGAATACAATCATGTATTAATTGAAGAAACAGATCAATTATGGAAAGTTTATTGTACCGGAGACT
TTAAGGAAGAAAGACCCGAAGAGTATGAGTCGTGGCGAGAGATGTACCTGCGGCTTCAGGACGCCCCGAGAGCAGC
GGCTACGAGTACTAACAAGAATATCCAGTTCGCACATGCCAATAAGCCCAAAGGCCGACAAGCAAAGATGGCCT
TTGTCAACTCTGTGGCCAAGCCACCTCGTGACGTCCGGAGGAGGCAGGAAAAGTTTGGAAACGGGAGGAGCAGCTG
TCCCTGAGAAAATCAAGATCAAGCCAGCCCCGTACCCCATGGGAAGCAGCCATGCTTCCGCCAGTAGCATCAGCT
TTAACCCAGCCCTGAGGAGCCGGCCTATGATGGCCCAAGCACCAGCAGTGCCCACTTGGCACCAGTGGTCAGCA
GCACTGTTTCTATGATCCTAGGAAACCCACTGTGAAGAAAATTGCCCAATGATGGCCAAGACAATTAAAGCTT
TCAAGAACAGATTCTCCCGACGATAACTGAGGACTTGCCCTTGGAATGGAATCTGGGGAGGCAGGAATACAAGG
ACAGTGGGGGTTGGGGAATGGAATTCTACAGGAGACTGGAGTCTTGCTTTGTGGATCCTTTTGGTCTCCGAGTCT
GCAGTCTGCAGGTGCTGCCCCTGGGAACCTGCGTGCCACAGCCCCGCTCCCTGCCTGGAGCACACTTTAGAATT
CTGAAGATGTGAAGCCTCTGTCTCACTGAGGATTTTAAAGGTCAATTATACTTTTGTGTTTCATTAGCATCTTG
TAAACTATAAGACGTAGTTTTAATTAATAAATATTGCCCCAGATGTTAAA

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FIGURE 360

MAAESALQVVEKLQARLAANPDPKLLKYLKKLSTLPITVDILAETGVGKTVNSLRKHEHVGSFARDLVAQWKKL
TPVERNAEPDEQDFEKSNSRKRPRDALQKEEEMEGDYQETWKATGSRSYSPDHRQKKHRKLSELERPHKVSHGHE
PPDERKRCHMSPTYSSDPSSDYGHVQSPPSCTSPHQMYVDHYRSLEEDQEP IVSHQKPGKGHSNAFQDRLGAS
QERHLGEPHGKGVVSQNKEHKSSHKDKRPVDAKSDEKASVVSREKSHKALSKEENRRPPSGDNAREKPPSSGVKK
ZGSSLKKKCLPPSEAASDNHLKKPKHRDPEKAKLDSKQGLDSFDTGKGAGDLLPKVKEKGSNNLKTPEGK
DRKSLGSLPKVEETDMEDEFEQPTMSFESYLSYDQPRKKKKIVKTSATALGDKGLKKNDSKSTGKNLDS
PKVNKTKSEKPAGADLAKLRKVPDVLPLPLPAIQANYRPLPSLELISSFPKRKAFSSPQEEEEAGF
RRMNSKMQVYSGSKCAYLPKMMTLHQQCIRVLKNNIDSIFEVGGVPYSVLEPVLERCTPDQLYRIEYNHVL I
QWLWKVHCHRD FKEERPEEYESWREMYLRLQDAREQRLRLVLTKNIQFAHANKPKGRQAKMAFVNSVAKPPRD
QEKFGTGGAAPPEKIKIKPAPYPMGSSHASASSISFNPSPEEPAYDGPSTSSAHLAPVVSSTVSYDPRKPT
APMMAKTIKAFKNRFSRR

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FIGURE 361

AGCAGAGCACACAAGCTTCTAGGACAAGAGCCAGGAAGAAACCACCGGAAGGAACCATCTCACTGTGTGTAAACA
TGACTTTCCAAGCTGGCCGTGGCTCTCTTGGCAGCCTTCCTGATTTCTGCAGCTCTGTGTGAAGGTGCAGTTTTGC
CAAGGAGTGCTAAAGAAGCTTAGATGTCAGTGCATAAAGACATACTCCAAACCTTTCCACCCCAAATTTATCAAAG
AACTGAGAGTGATTGAGAGTGGACCACACTGCGCCAACACAGAAATTATTGTAAAGCTTTCTGATGGAAGAGAGC
TCTGTCTGGACCCCAAGGAAAAGCTGGGTGCAGAGGGTTGTGGAGAAGTTTTTGAAGAGGGCTGAGAATTCATAAA
AAAATTCATTCTCTGTGGTATCCAAGAATCAGTGAAGATGCCAGTGAACCTTCAAGCAAATCTACTTCAACACTT
CATGTATTGTGTGGGTCTGTTGTAGGGTTGCCAGATGCAATACAAGATTCCTGGTTAAATTTGAATTTTCAGTAAA
CAATGAATAGTTTTTCATTGTACCATGAAATATCCAGAACATACTTATATGTAAAGTATTATTTAATTTGAATCTA
CAAAAAACAACAAATAATTTTTAAATATAAGGATTTTCTTAGATATTGCACGGGAGAATATACAAATAGCAAAAT
TGAGCCAAGGGCCAAGAGAATATCCGAACCTTAATTTTCAGGAATTGAATGGGTTTGCTAGAATGTGATATTTGAA
GCATCACATAAAAAATGATGGGACAATAAATTTTGCCATAAAGTCAAATTTAGCTGGAAATCCTGGATTTTTTCT
GTTAAATCTGGCAACCCTAGTCTGCTAGCCAGGATCCACAAGTCCTTGTCCACTGTGCCTTGGTTTTCTCCTTTA
TTTTCTAAGTGGAAGAAAGTATTAGCCACCATCTTACCTCACAGTGATGTTGTGAGGACATGTGGAAGCACTTTAAG
TTTTTTCATCATAACATAAATTTATTTTCAAGTGTAACCTATTAACCTATTTATTATTTATGTATTTATTTAAGCA
TCAAATATTTGTGCAAGAATTTGGAAAAATAGAAGATGAATCATTGATTGAATAGTTATAAAGATGTTATAGTAA
ATTTATTTTATTTTAGATATTAATGATGTTTTATTAGATAAATTTCAATCAGGGTTTTTAGATTAAACAAAGAA
ACAATTGGGTACCCAGTTAAATTTTCAATTCAGATAAACAACAAATAATTTTTTAGTATAAGTACATTATTGTTT
ATCTGAAAGTTTTTAATTGAACATAACATCCTAGTTTGATACTCCCAGTCTTGTCAATTGCCAGCTGTGTTGGTAGT
GCTGTGTTGAATTACGGAATAATGAGTTAGAATATTAATAACAGCCAAAACCTCCACAGTCAATATTAGTAATTTT
TTGCTGGTTGAAACTTGTTTTATTATGTACAAATAGATTCTTATAATATTATTTAAATGACTGCATTTTTTAAATAC
AAGGCTTTATATTTTTTAACCTTAAGATGTTTTTATGTGCTCTCCAAATTTTTTTTACTGTTTCTGATTGTATGGA
AATATAAAAGTAAATATGAAACATTTAAATATAATTTGTTGTCAAAGTAAAAAAAAAAAAAAAAA

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FIGURE 362

MTSKLAVALLAAFLISAALCEGAVLPRSAKELRCQCIKTYSKPFHPKF IKELRVIESGPHCANTEIIVKLSDGRE
LCCLDPKENWVQRVVEKFLKRAENS

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FIGURE 363

GCCGGGAGCGCCGCTCCAGCGAGGCGCGGGCTGTGGGGCCGCCGCTGCCTGGCCCCGCTCGCCCGTGCCGGCCG
CTCGCCCGCCATGCCTGGCTTCGACTACAAGTTCCCTGGAGAAGCCCAAGCGACGGCTGCTGTGCCCCTGTGCGG
GAAGCCCATGCGCGAGCCTGTGCAGGTTTCCACCTGCGGCCACCGTTTCTGCGATACCTGCCTGCAGGAGTTCCT
CAGTGAAGGAGTCTTCAAGTGCCCTGAGGACCAGCTTCCTCTGGACTATGCCAAGATCTACCCAGACCCGGAGCT
GGAAGTACAAGTATTGGGCCTGCCTATCCGCTGCATCCACAGTGAGGAGGGCTGCCGCTGGAGTGGGCCACTACG
TCATCTACAGGGCCACCTGAATACCTGCAGCTTCAATGTCAATTCCTGCCCTAATCGCTGCCCCATGAAGCTGAG
CCGCCGTGATCTACCTGCACACTTGCAGCATGACTGCCCCAAGCGGCGCCTCAAGTGCAGTTTTGTGGCTGTGA
CTTCAGTGGGGAGGCCTATGAGAGCCATGAGGGTATGTGCCCCAGGAGAGTGTCTACTGTGAGAATAAGTGTGG
TGCCCGCATGATGCGGCGGCTGCTGGCCCAGCATGCCACCTCTGAGTGCCCCAAGCGCACTCAGCCCTGCACCTA
CTGCACTAAGGAGTTCGTCTTTGACACCATCCAGAGCCACCAAGTACCAGTGCCCCAAGGCTGCCTGTTGCCCTGCC
CAACCAATGTGGTGTGGGCACTGTGGCTCGGGAGGACCTGCCAGGCCATCTGAAGGACAGCTGTAAACACCGCCCT
GGTGCTCTGCCCATTCAAAGACTCCGGCTGCAAGCACAGGTGCCCTAAGCTGGCAATGGCACGGCATGTGGAGGA
GAGTGTGAAGCCACATCTGGCCATGATGTGTGCCCTGGTGAGCCGGCAACGGCAGGAGCTGCAGGAGCTTCGGCG
AGAGCTGGAGGAGCTATCAGTGGGCAGTGATGGCGTGCTCATCTGGAAGATTGGCAGCTATGGACGGCGGCTACA
GGAGGCCAAGGCCAAGGCCAACCTTGAGTGCTTCAGCCCAGCCTTCTACACACATAAGTATGGTTACAAGCTGCA
GGTGCTCTGCATTCTCTCAATGGCAATGGCAGTGGTGAGGGCACACACCTCTCACTGTACATTCTGTGTGCTGCCTGG
TGCCTTTGACAATCTCCTTGAGTGGCCCTTTGCCCGCCGIGTCACCTTCTCCCTGCTGGATCAGAGCGACCCTGG
GCTGGCTAAACCACAGCACGTCACTGAGACCTTCCACCCCGACCCAAACTGGAAGAATTTCCAGAAGCCAGGCAC
GTGGCGGGGCTCCCTGGATGAGAGTTCTCTGGGCTTTGGTTATCCCAAGTTCATCTCCCACCAGGACATTCGAAA
GCGAAACTATGTGCGGGATGATGCAGTCTTCATCCGTGCTGCTGTTGAAGTGGCCCGGAAGATCCTCAGCTAGT
GCAGGTGGGGTTCGAGGGGAAAGGACGATGGGGCATGACCTCAGTCAGGCACTGGCTGAAGTGGAGAGGGGGCC
GGACCCCGTCAGCTGCTTCTGCTGCCTAGGTTCTGTTACCCCATCCCTCCCTCCCCAGCCACCACCCTCAGGTG
CCTCCAATTGGTGCTTCAGCCCTGGCCCCTGTGGGGAACAGGTCTTGGGGTCATGAAGGGCTGGAAACAAGTGAC
CCCAGGGCCTGTCTCCCTTCTTGGGTAGGGCAGACATGCCTTGGTGCCGGTCACACTCTACACGGACTGAGGTGC
CTGCTCAGGTGCTATGTCCAAGAGCCATAAGGGGGTGGGAATTGGGGAGGGAGAAAGGGTAGTTCAAAGAGTCT
GTCTTGAGATCTGATTTTTTCCCCCTTTACCTAGCTGTGCCCCCTCTGTTATTTATTTCTTAGTGCCAGGAGG
GCACAGCAGGGGAGCCCTGATTTTTTAATAAATCCGGAATTGTATTATT

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FIGURE 364

MPGFDYKFLEKPKRRLLCPLCGKPMREPVQVSTCGHRFCDTCLQEFLSEG VF KCPEDQLPLDYAKIYPDPELEVQ
VLGLPIRCIHSEEGCRWSGPLRHLQGH LNTCSFNVIPCPNRCPMKLSRRDLPAHLQHDCPKRRLKCEFCGCD FSG
EAYESHEGMCPQESVYCENKCGARMMRGLLAQHATSECPKRTQPCTYCTKEFVFDTIQSHQYQCPRLPVACPNQC
GVGTVAREDLPGHLKDSCNTALVLCPFKDSGCKHRCPKLAMARHVEESVKPHLAMMCALVSRQRQELQELRRELE
ELSVGSDGVLIWKIGSYGRRLQEAKAKPNLECFSPAFYTHKYGYKLQVSAFLNGNGSGEGTHLSLYIRVLP GAFD
NLLEWPFARRVTFSLDQSDPGLAKPQHVTETTFHPDPNWKNFQKPGTWRGSLDESSLGFGYPKFISHQDIRK RNY
VRDDAVFIRAAVELPRKILS

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FIGURE 365

CAGAGGTCAGACGGTCTAGCGCTGCGTGGGCCATGGTGCAGCTCCGACCGCGAGCGTCTCGCGCCCCGGCGTCGG
CGGAGGCGATGGTGGACGAGGGCCAGCTGGCCTCGGAGGAGGAGGAGGCGGAGCACGGGCTGTTGCTCGGGCAGC
CCAGCAGCGGCGCGGCCCGGAGCCCCTGGAGGAAGACGAGGAAGGGGACGATGAGTTTGACGATGAGGCCCCGG
AGGAGCTGACTTTTCGCCAGCGCCAGGCGGAAGCGAGAGAAGAGGAGCGGCGAGTGCGGGAGACCGTGCGCAGGG
ATAAAACGCTCCTGAAGGAGAAGAGGAAGCGACGCGAGGAGCTGTTTCATCGAACAGAAGAAAAGAAAACCTCCTTC
CAGACACTATTTTGGAGAAGTTAACCACAGCTTCACAGACTAACATCAAGAAATCGCCAGGAAAGGTGAAAGAAG
TTAATTTGCAAAAGAAAAATGAAGACTGTGAAAAAGGAAATGACTCCAAGAAAGTTAAAGTACAAAAAGTACAGT
CTGTCAGCCAGAATAAAAAGCTACTTGGCCGTAAGGCTAAAAGACCAAGATCTGAGAGATTCAAGGCAACAAGCAG
CACAAGCCTTCATACATAATTCATTATATGGGCCAGGAACCAACAGGACTACTGTAAATAAGTTCCTGTCTCTTG
CCAACAAGAGGTTACCAGTGAAAAGAGCTGCTGTCCAGTTTTTTGAATAATGCTTGGGGAATCCAAAAAAAACAAA
ATGCCAAGAGGTTTAAAAGACGGTGGATGGTCAGAAAGATGAAAATAAGAAGTAAATCAATGCTAAATGAAGAA
TCTGTACTTTGTATGTATAGAATTTATCTAATAAATCATTATAGATCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 366

MQLRPRASRAPASAEAMVDEGQLASEEEEEAEHGLLLGQPSSGAAAEPLDEEGDDEFDDEAPEELTFASQA
AEEERRVRETVRDKTLLKEKRKRREELFIEQKKRLLPDTILEKLTTASQTNIKKSPGKVKEVNLQKKNE
KGNDSSKKVKVQKVQSVSQNKSYLAVRLKDQDLRDSRQQAQAFIHNSLYGPGTNRTTVNKFLSLANKRLPV
KRAA
VQFLNNAWGIQKKQNAKREFKRRWMVRKMKTKK

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FIGURE 367

GCAGCAGGCCAAGGGGGAGGTGCGAGCGTGGACCTGGGACGGGTCTGGGCGGCTCTCGGTGGTTGGCACGGGTTC
GCACACCCATTCAAGCGGCAGGACGCACCTTGTCTTAGCAGTTCTCGCTGACCGCGCTAGCTGCGGCTTCTACGCT
CCGGCACTCTGAGTTCATCAGCAAACGCCCTGGCGTCTGTCCTCACCATGCCTAGCCTTTGGGACCGCTTCTCGT
CGTCGTCCACCTCCTCTTCGCCCTCGTCCTTGCCCCGAACCTCCACCCAGATCGGCCGCCGCGCTCAGCCTGGG
GGTCGGCGACCCGGGAGGAGGGGTTTGACCGCTCCACGAGCCTGGAGAGCTCGGACTGCGAGTCCCTGGACAGCA
GCAACAGTGGCTTCGGGCCGGAGGAAGACACGGCTTACCTGGATGGGGTGTCGTTGCCGACTTCGAGCTGCTCA
GTGACCCTGAGGATGAACACTTGTGTGCCAACCTGATGCAGCTGCTGCAGGAGAGCCTGGCCCAGGCGCGGCTGG
GCTCTCGACGCCCTGCGCGCCTGCTGATGCCTAGCCAGTTGGTAAGCCAGGTGGGCAAAGAACTACTGCGCCTGG
CCTACAGCGAGCCGTGCGGCCCTGCGGGGGCGCTGCTGGACGTCTGCGTGGAGCAGGGCAAGAGCTGCCACAGCG
TGGGCCAGCTGGCACTCGACCCACAGCTGGTGCCACCTTCCAGCTGACCCCTCGTGCTGCGCCTGGACTCACGAC
TCTGGCCCAAGATCCAGGGGCTGTTTAGCTCCGCCAACTCTCCCTTCCTCCCTGGCTTCAGCCAGTCCCTGACGC
TGAGCACTGGCTTCCGAGTCATCAAGAAGAAGCTGTACAGCTCGGAACAGCTGCTCATTGAGGAGTGTTGAACTT
CAACCTGAGGGGGGCCGACAGTGCCCTCCAAGACAGAGACGACTGAACTTTTGGGGTGGAGACTAGAGGCAGGAGC
TGAGGGACTGATTCCAGTGGTTGGAAAAGTGAAGGCAGCCACCTAAGGTGGAGGTGGGGGAATAGTGTTCAGG
AAGCTCATTGAGTTGTGTGCGGGTGGCTGTGCATTGGGGACACATACCCCTCAGTACTGTAGCATGGAACAAAGG
CTTAGGGGCCAACAAGGCTTCCAGCTGGATGTGTGTGTAGCATGTACCTTATTATTTTGTACTGACAGTTAAC
AGTGGTGTGACATCCAGAGAGCAGCTGGGCTGCTCCCCCCCCAGCCTGGCCCAGGGTGAAGGAAGAGGCACGTGC
TCCTCAGAGCAGCCGGAGGGAGGGGGGAGGTGCGAGGTGCTGGAGGTGGTTTGTGTATCTTACTGGTCTGAAGGG
ACCAAGTGTGTTTGTGTGTTTGTGTTTGTATCTTGTGTTTCTGATCGGAGCATCACTACTGACCTGTTGTAGGCAGC
TATCTTACAGACGCATGAATGTAAGAGTAGGAAGGGGTGGGTGTCAGGGATCACTTGGGATCTTTGACACTTGAA
AAATTACACCTGGCAGCTGCGTTTAAGCCTTCCCCCATCGTGTACTGCAGAGTTGAGCTGGCAGGGGAGGGGCTG
AGAGGGTGGGGGCTGGAACCCCTCCCCGGGAGGAGTGCCATCTGGGTCTTCCATCTAGAAGTGTGTTACATGAAGA
TAAGATACTCACTGTTTATGAATACACTTGATGTTCAAGTATTAAGACCTATGCAATATTTTTTACTTTTCTAAT
AAACATGTTTGTAAACAAAAAAAAAAAAAAAAAAAA

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FIGURE 368

MPSLWDRFSSSSTSSSPSSLPTPTPDRPPRSAWGSATREEGFDRSTSLESSDCESLDSSNSGFGPEEDTAYLDG
VSLPDFELLSDPEDEHLCANLMQLLQESLAQARLGSRRPARLLMPSQLVSQVGKELLRLAYSEPCGLRGALLDVC
VEQGKSCHSVGQLALDPSLVPTFQLTLVLR LDSRLWPKIQGLFSSANSFPLPGFSQSLTLSTGFRVIKKKLYSSE
QLLIEEC

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FIGURE 369

ATGCATCGTGATTCTGTCCATTGGACTGTAAGGTTTATGTAGGCAATCTTGGAACAATGGCAACAAGACGGAA
TTGGAACGGGCTTTTGGCTACTATGGACCACTCCGAAGTGTGTGGGTTGCTAGAAACCCACCCGGCTTTGCTTTT
GTTGAATTTGAAGATCCCCGAGATGCAGCTGATGCAGTCCGAGAGCTAGATGGAAGAACACTATGTGGCTGCCGT
GTAAGAGTGGAAGTGTCTGAATGGTGAAAAAAGAAGTAGAAATCGTGGCCACCTCCCTCTTGGGGTCGTCGCCCT
CGAGATGATTATCGTAGGAGGAGTCTCCACCTCGTCGCAGATCTCCAAGAAGGAGAAGCTTCTCTCGCAGCCGG
AGCAGGTCCCTTTCTAGAGATAGGAGAAGAGAGAGATCGCTGTCTCGGGAGAGAAATCACAAGCCGTCCCGATCC
TTCTCTAGGTCTCGTAGTCGATCTAGGTCAAATGAAAGGAAATAGAAAGACCAGTTTGCAAAAGTGGTGTAGAGGA
TCC

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FIGURE 370

MHRDSCPLDCKVYVGNLGNNGNKTELERAFGYYGPLRSVWVARNPPGFVFEFEDPRDAADAVRELDGRTLGCGR
VRVELSNGEKRSRNRGPPPSWGRRPRDDYRRRSPPPRRSPPRRSFSSRSRSLSRDORRRERSLSRERNHKPSRS
FSRSRSRSRSNERK

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FIGURE 371

ATGTCTCTTGTCAGCTGTCTTTCAGAAGACCTGGTGGGGCAAGTCCGTGGGCATCATGTTGACCGAGCTGGAGAA
AGCCTTGAACTCTATCATCGACGTCTACCACAAGTACTCCCTGATAAAGGGGAATTTCCATGCCGTCTACAGGGA
TGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGTTCAAAGA
GTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTCCTCATTCTGGTGATAAAGATGGGCGTGGCAGC
CCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCCAGAGGCTGGGCCCCTGGACATG
TACCTGCAGAATAATAAAGTCATCAATACCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 372

MLLELEKALNSIIDVYHKYSLIKGNFHAVYRDDLLKKLLETCPQYIRKKGADVWFKELDINTDGAVNFQEFLILV
IKMGVAAHKKSHKE

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FIGURE 373A

ATGGCCCGACCGCCGCCACTACCGGGGCGCTGAGGGGGCGCTGGCGGAGCCCGAGCGCGGCCCCGCCGCGAGCGTGG
GGCCCCGAGCGCGGTGAAGAGATTGTTTTCTGAAAGCTGCGTTGGAGGCTGTGACAGAGCTGAGAGCCTGTGTGG
AGCGGATGGGGAGGCTTTCTCAATAACATGGCCCTTTGCCATTAGCCTTGCCATGACCACATTTTACCAGCGT
CCCCCCTGGATTCAAGATGCAAAGCAGGAGGAGGAAGTGGGCTGGAACTAGTTCACAGGCTCGGGGCGGGA
GGCGGAGAGTCAAGTGAAGTGCCAATGTGAAATTCGGGAACACCTTTCTCAAATGGGGAGAAGCTGAGGCCTCA
CAGCCTCCCGCAACCAGAGCAGAGACCATATAGCTGCCCTCAGCTGCACTGTGGCAAGGCTTTTGCTTCCAAATA
CAAGCTGTATAGGCACATGGCCACCCACTCAGCCCAGAAACCCACCAGTGTATGTACTGTGATAAGATGTTTCA
CCGCAAGGACCATCTGCGGAACCATCTGCAGACCCATGATCCTAACAAAGAGGCCCCCTCCACTGCTCTGAGTGC GG
TAAGAATTACAATACGAAGCTGGGCTACCGGCGCCACCTGGCCATGCATGCTGCCAGCAGCGGTGACCTCAGCTG
CAAGGTGTGCTGCAGACCTTTGAGAGTACCCAGGCCCTGCTAGAGCACCTGAAGGCCCACTCACGCCGGGTAGC
AGGCGGTGCCAAGGAGAAGAAGCACCCCTGTGACCACTGCGACCGGCGGTCTATACTCGTAAGGATGTACGGCG
GCACCTAGTGGTGCACACAGGCCGTAAGGACTTCCTGTGCCAGTACTGTGCCAGCGGTTTGCCGTAAGGACCA
CCTGACGCGTCATGTCAAGAAGAGCCACTCGCAGGAGCTGCTCAAGATCAAGACAGAGCCCGTGACATGTTAGG
CCTACTCAGCTGCAGCTCCACAGTCAGTGTGAAGGAAGAGCTGAGCCCTGTGCTGTGCATGGCCTCTCGGGACGT
AATGGGGACCAAGGCCTTCCCTGGCATGTTGCCCATGGGCATGTATGGTGCCACATCCCTACCATGCCCAGCAC
GGGCGTGCCACACTCCCTGGTGCACAACACGCTGCCCATGGGTATGAGCTACCCTCTGGAATCCTCACCTATCTC
TTCCCCAGCTCAGCTCCCTCCAAATACCAGCTTGATCTACCTCATACTTGCCCGACAAATTGCCCAAAGTGA
GGTGGATAGTTTTCTGGCGGAGCTTCTGGAAGCCTGTCTCTCTCATCCGCTGAACCCAGCCCGCCTCACCTCA
GCCGGCGGAGCTGCGGCCCTCCTAGATGAAGCACTGCTTGCCAAGAGCCCGCCAACCTCTCTGAGGCCCTCTG
CGCTGCTAATGTGGACTTCTCCACCTACTGGGCTTCTTCCACTCAACCTGCCCCGTGTAACCCACCTGGGGC
CACAGGAGGCCTGGTTCATGGGCTACTCCCAGGCTGAGGCACAGCCCTGCTTACCACTTTGCAAGCTCAGCCTCA
AGATTCCCCAGGAGCTGGGGGACCACTGAACCTTTGGGCTCTGCACTCCTTGCTCCTGTCTTACGTCTGGCCT
GAGTAGCACCACCCTGCCTCGTTTCCATCAAGCATTCCAGTAGCCCCACAGAGGCCCTCAGCTCAGTTTTTGGC
TCTGTTATGGAGCCTTAGTACCCACCCCGTCTGTGTCCCCCATGAAGGCAGCTGAGCTTTAGAGCTGGGTTCAA
AAAAAAAATTCCAGTGTCTGTATACAGGAGCACTTGGTTTTGGGGGTTGAGGCTCTAGGATCGATTCCAGAAGGA
GCCTTGAGCCCCAACCCCGTGAAAAGATCTCATACCGTAGGACTTCAGGTATTATTTACTTTTATTTTTTGACC
TGAATCGGGAGCCACACTTGGCCCTCTTCTCTCCAAAGCGCCAGAACCTCCTTCTCTTTGGAGAATGGGGAGGC
CTCTTGAGACACAGAGGGTTTACCTTGGATGACCTCTAGAGAAATTGCCCAAGAAGCCACCTTCTGGTCCCA
ACCTGCAGACCCACAGCAGTCAGTTGGTCAGGCCCTGCTGTAGAAGGTCACTTGGCTCCATTGCCTGCTTCCAA
CCAATGGGCAGGAGAGAAGGCCTTTATTTCTCGCCACCCATTCTCTGTACCAGCACCTCCGTTTTAGTCAG
TGTTGTCCAGCAACGGTACCGTTTACACAGTCACCTCAGACACACCATTTACCTCCCTTGCCAAGCTGTTAGCC
TTAGAGTGATTGCAGTGAACACTGTTTACACACCGTGAATCCATTCCCATCAGTCCATTCCAGTTGGCACCAGCC
TGAACCAATTTGGTACCTGGTGTAACTGGAGTCTGTTTACAAGGTGGAGTCGGGGCTTGCTGACTTCTCTTCAT
TTGAGGTCACATTTTTTCCCCCGTGGGGAAATAAACTGACTTTGGACTGCTTCAGTCTCTGCCATCTTCCATGACT
GCAATTTGTTCTGCTGCTGCTCGGCGGTATCCACAGAAGACAGGCAAGAGGATTGGAGCAGTTTTCTCACAGGTCT
GCAATTTCTGTTTTTCTCCAAGTACATTATGACCCCTCATCCTTCTCTTGAAGTGGAGAGGGGAAGAAATGAAAG
GCATGCCCACGTCCGTACCTCCCCATCCCTAGTCCCCACCTTGAACATCATGAGCTGTTGTTATTAGTCTTGG
AAGCAGAGTCTGGGTTGGTGTGGATAGCAAAGGAGGAAGTCTGAGCCCTCATTGGTCTTCTCCACCTGTCCC
TTTTCCGGGAAGTTGTGGAATTGTGGAAGAAGAGTTTGCAGAAGGTTAGGAATGGGTAGATAGCTAAGTCCTAA
TCTATGGGTACATTGTTGTGTCCCAAACCAAAATTTTCTTATCCACAATGTCCCTTCTGTCTCTTCCACTTTAC
AGTGGACTCGGCCACTGTGCATAGGCTTCTCTGCTCTCCATCAAATCACTTCCACTTCTCTGTGCCCCACCC
GCCTCCAGTTTTCCGCTAGTATCCGGCAAGGTTTCTTGCAACAAATGATTAGTCTTTCTTCTGACTCGTGGGG
CTCCCTGCTGCAGAGACACAGCCCTTGCTGGAGCCCAGGAACCCCATCCTTGCTTCATCTCAGTTCTTTCATGG
GCTTCACTCTTCCCACTCACGGAAGGGAGGTAGCTCAGGGACCTCCACTGTGGGACCCTTGAGATGCTTCCACTC
TGATTAGAAACACACTTCTACCTCTTTACTGTTAACTCTTAACAGATGCAGTCAGCAGTTTCTGGGCACTTCTC
TCAGTAGGTGCTCATGCTGACTTCTCCACTAGGGTTTTCAGGACAACTACCAAGGAATTGCCTCAGCCTCCTAC
CAGTCTCTCCCTCACCCACCTTCTGTCTAGGTTCACTTGGTTTTGTCATCAGGAAGTGCAGGTCAGGACTCAGC
TTTCTGCTTCAGCCTAAGCCAGTACTCCTTGTTTTGAGGTAAAAGCCTTAAATTTAGCTCCCTAGCTCTTGATTA

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FIGURE 373B

GAAGCAATTTGGAGTAAGTGTGTTTTGATTTAGGCAGGGTAGCTTGGGATACCTTTTTTAAAAACACCAGATATTA
AAATGTCTGGCAAGGTTAGAATCAGACTAGATGATTTGCTTCTAAAAATTAGTTTCAGTGAGTCCCAGGGACTAA
TTAAGGTTTATTTTAAAAAGTGTCTACCTTGGTACGCAGCCACCTCCTGCATGCTGTGCATGTTATTGGGACTTG
TATTATAGGCGATGGTATGTGAGAATCCAGTTGGGACTCGCTGTTGCCATCCTCTTTGTTGTATCTGGTTTTTCAT
CACTAGACTCAGCAACCCCTTCTCACCTTAACTGCCACCTTCCCTACACTCTCAGTTTACAGAGGCCACTGGGCCT
CTGGCTGCAGAAATACAAAGTCCCGGGCTGTTAGAGGAGTCCTTTCTCTCTGCCTGCCCTTTCCTGTCCCTCCCT
GAATTCTCTCTCCCCGTAAAGTGATGCTGGAAGTCAATAGGACTGGCAAAGCAACTGTTTAAACCCTTTGTAACC
GGGGCCTTGCCCCACCTCCTGTCTTTTCTCCTTGCCCTTCCCCACTCCTGTGTCCTCCCATCTATCCTGTCTTTC
CTTTCCTCCTCTCAGTGTCCTCAGCACCCACAAGGAATTTTCTATCACTGTGAACCTTTGCTGGTACAGAGGAAT
AATATCTGCCCTTACCTTTTTTTTTTTTGGACCATAGCTAGCCAGTCATTTCTTAAACCTCCCTTCTTAAATCTG
GGGGGTGCGGGGGGAAAGAAAAAAGCCTTAGTGCCCTGGTTGTTCAAAGGATAAGAATAGCTTTATCCTGCAC
TCAGTACCCGAACTCACTTCAGTATGCTTACTGAGGCCATGAGAACCTGAGGGGCATCTGCCCAGGACAGAAGCC
ATGGCATATGACAAAGACCAATGAGGGACCAGGAAAAAAGTGATGTCCCTTTCCCTGCCACCTCCAGCCTCTG
CCAGCAATGAGCTGTCCCCCTCCACCCCTACACAGTAGCTGGTCAGGGCTGAGTACAGTCCTGGGGGTAAGGGGA
TGACATGCCCAGGTGTCAGCTCAAAGGATCTCTGCATCATCTTGAGGTGGGAGGCAGGGAAAGGAGCGCCAATGA
GGTTCCCTGCAACCCCGCCCTCCAGCCCACCGCCAGCCTTTTACAAATGGCATTTCCTTAATTGAAAATCCGG
GAAGCAGGTGTGATTACTTTTTTGTCTCGTAGATATTGTCTAAGTTGGAATTCTCCCACTGCCCTAAAACCTTCC
CTAGTAGTCCTTTAAACTCCCCCTCCCTTTTTTGGTAGCTGTTTCTCCGTCTCTCTCCACCTGCCCTCTTATCT
AGGAGCTGTTTGTAAAGCACGATTTTTTTAACAGGTTATATTGTACAGGATCAATATTTTGCTTTTTTAACAAGGAT
ATTTATGTAATAAGAACTTTGCCTTAGGCAGGTGTTGGCCAGAAAAGTCCAGATTCTCTGGGATCCACCCCTG
GCCTCTCCTGGAACCTCTGAACCTGCTGTGGAAGGAATTGGCCATGACCTTCACCTCTGGAGAGTAGGGTCTATGG
CGAGGGAAAAGGGTGTTCACCATGATAACCTAGTGCCCTCCATAGAGGGGTTTGGAAAAATTCCAGTCCGATTCT
TTGTGTGTCAGCTGACTTCCTTAGCTGATTGTTCCCACTTGCACCTCTCCACCTTTGGCACTAGAACTCCTGAGA
CACCACCTTCTCATGCTTCTCCCTCCCTACCAGCGGTCAAGGCTTTGGAGCCACTCTTTTGTAACCTCCAGATTAT
TAAAGAGAAAAGTACAAGACAGAAATCTTCTAGCACTTTGTAAACACAGTGAATAACCTCTTGGAGTATTTTGG
CTTTATATAAAACAAGGTTTTTAATTGTAAAGTATAAGTGCCATTAGAAAATGCACAGGGCATATCTTTGTTAAA
GTAGATTTTTCAATGTTTTACAGAATTACATTTTCAAAAAAAGGTTTTTATAATGAAGTTGTTTATTAAAAACTT
CTGAATGATGTGTTT

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FIGURE 374

MTTFFTSVPPWIQDAKQEEVGVKLVPRPRGREAESQVKCQCEISGTPFSNGEKLPHSLPQPEQRPYSCPOLHC
GKAFASKYKLYRHMATHSAQKPHQCMYCDKMFHRKDHLRNHLQTHDPNKEALHCSECGKNYNTKLGYYRRLAMHA
ASSGDLCKVCLQTFESTQALLEHLKAHSRRVAGGAKEKKHPCDHCDRRFYTRKDVRRHLVVHTGRKDFLCQYCA
QRFGRKDHLTRHVKKSHSQELLKIKTEPVDMLGLLSCSSTVSVKEELSPVLCMASRDVMGTKAFPGMLPMGMYGA
HIPTMPSTGVPHSLVHNTLPMGMSYPLESSPISSPAQLPPKYQLGSTSYLPDKLPKVEVDSFLAELPGSLSLSSA
EPQPASPQAAAAALLDEALLAKSPANLSEALCAANVDFSHLLGFLPLNLPPCNPPGATGGLVMGYSQAEAQPLL
TTLQAQPQDSPGAGGPLNFGPLHSLPPVFTSGLSSTTLPRFHQAFQ

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FIGURE 375

CGCGCCCTCCCTCCTCGCGGACCTGGCGGTGCGGGCGCCCGGAGTGGCCCTTTAAAAGGCAGCTTATTGTCCGG
AGGGGGCGGGCGGGGGCGCCGACCGCGGCTTGAGGCCCGGCCCTCCCCTCTCCCTCCCTCTGTCCCCGCGTCG
CTCGCTGGCTAGCTCGCTGGCTCGCTCGCCCGTCCGGCGCACGCTCCGCCTCCGTCAGTTGGCTCCGCTGTTCGGG
TGCGCGCGTGGAGCGGCAGCCGGTCTGGACGCGCGGGCGGGGCTGGGGGCTGGGAGCGCGCGCGCAAGATCTC
CCGCGCGAGAGCGGCCCTGCCACCGGGCGAGGCCTGCGCCGCGATGGCAGAGATGGGCAGTAAAGGGGTGACG
GCGGGAAAGATCGCCAGCAACGTGCAGAAGAAGCTCACCCGCGCGCAGGAGAAGGTTCTCCAGAAGCTGGGGAAG
GCAGATGAGACCAAGGATGAGCAGTTTGAGCAGTGCCTCAGAATTTCAACAAGCAGCTGACGGAGGGCACCCGG
CTGCAGAAGGATCTCCGGACCTACCTGGCCTCCGTCAAAGCCATGCACGAGGCTTCCAAGAAGCTGAATGAGTGT
CTGCAGGAGGTGTATGAGCCCGATTGGCCCGGCAGGGATGAGGCAAACAAGATCGCAGAGAACAACGACCTGCTG
TGGATGGATTACCACCAGAAGCTGGTGGACCAGGCGCTGCTGACCATGGACACGTACCTGGGCCAGTTCCCCGAC
ATCAAGTCACGCATTGCCAAGCGGGGGCGAAGCTGGTGGACTACGACAGTGCCCGGCACCACTACGAGTCCCTT
CAAAGTGCCAAAAAGAAGGATGAAGCCAAATTGCCAAGGCCGAGGAGGAGCTCATCAAAGCCCAGAAGGTGTTT
GAGGAGATGAATGTGGATCTGCAGGAGGAGCTGCCGTCCCTGTGGAACAGCCGCGTAGGTTTCTACGTCAACACG
TTCCAGAGCATCGCGGGCCTGGAGGAAAATTCCACAAGGAGATGAGCAAGCTCAACCAGAACCTCAATGATGTG
CTGGTCCGCCTGGAGAAGCAACACGGGAGCAACACCTTACGGTCAAGGCCAGCCAGAAAGAAAAGTAAACTG
TTTTTCGCGGCTGCGCAGAAAGAAGAACAGTGACAACGCGCCTGCAAAAGGGAACAAGAGCCCTTCGCCTCCAGAT
GGCTCCCCTGCCGCCACCCCGAGATCAGAGTCAACCACGAGCCAGAGCCGGCCGGCGGGGCCACGCCCCGGGGCC
ACCTTCCCCAAGTCCCCATCTCAGCCAGCAGAGGCCTCGGAGGTGGCGGTGGGACCCAACCTGCGGCTGGAGCC
CAGGAGCCAGGGGAGACGGCGGCAAGTGAAGCAGCCTCCAGCTCTCTTCTGCTGTCTGTTGGTGGAGACCTTCCCA
GCAACTGTGAATGGCACCGTGGAGGGCGGCAGTGGGGCCGGGCGCTTGGACCTGCCCCAGGTTTCATGTTCAAG
GTACAGGCCCAGCACGACTACACGGCCACTGACACAGACGAGCTGCAGCTCAAGGCTGGTGTATGTGGTGTCTGGT
ATCCCTTCCAGAACCCTGAAGAGCAGGATGAAGGCTGGCTCATGGGCGTGAAGGAGAGCGACTGGAACCAGCAC
AAGGAGCTGGAGAAGTGCCGTGGCGTCTTCCCCGAGAACTTCACTGAGAGGGTCCCATGACGGCGGGGGCCAGGC
AGCCTCCGGGCGTGTGAAGAACACCTCCTCCCGAAAAATGTGTGGTCTTTTTTTTGTGTTTTGTTTTCGTTTTTCA
TCTTTTGAAGAGCAAAGGGAAATCAAGAGGAGACCCCGAGGAGGGGCGTTCTCCCAAAGATTAGGTGCTTTT
CCAAAGAGCCGCGTCCCGGCAAGTCCGGCGGAATTCACCAAGTGTTCCTGAAGCTGCTGTGTCTCTAGTTGAGTT
TCTGGCGCCCTGCCTGTGCCCGCATGTGTGCTGGCCGACGGGCGGGGCTGGGGGCTGCCGAGCCACCATGCTT
GCCTGAAGCTTCGGCCGCGCCACCCGGGCAAGGGTCTCTTTTCTGGCAGCTGCTGTGGGTGGGGCCAGACAC
CAGCCTAGCCTGGCTCTGCCCCGACAGCGTCTGTGTGCTGTTTAAAATAAATCTTAGTGTTCAAAACAAAATG
AAACAAAAAAAATGATAAAACTCTCAAAAAA

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FIGURE 376

MAEMGSKGVTAGKIASNVQKKLTRAQEKVLQKLGKADETKDEQFEQCVQNFNKQLTEGTRLQKDLRITYLASVKAM
HEASKKLNECLQEVYEPDWPGRDEANKIAENNDLLWMDYHQKLVDQALLTMDTYLGQFPDIKSRIAKRGRKLVY
DSARHHYESLQTAKKKDEAKIAKAEELIKAQKVFEEMNVDLQEELPSLWNSRVGFYVNTFQSIAGLEENFHKEM
SKLNQNLNDVLVGLEKQHGSNTFTVKAQPSDNAPAKGNKSPSPPDGSPAATPEIRVNHEPEPAGGATPGATLPKS
PSQSSLPVVVETFPATVNGTVEGGSGAGRLDLPPGFMFKVQAQHDYTATDTDELQLKAGDVVLVIPFQNPEEQD
EGWLMGVKESDWNQHKELEKCRGVFPENF TERVP

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FIGURE 377

ACACCATCCTCTTAGTTGCTCAGACTGAAAAGCTAGCAGCCATCCTGGATTTCTCTCACACTGCCTATTCAACGT
GTGAATGCATGAGTGGAAAGCTGAGTTCGCACTCGTGAAGTGGCCGGGGTCGACTCTGACATTCACTCCCACCTTG
GCGCGCTGATTTGCCTCTGAGCGGATGAAGGTTGAGCCATGGCGGGCGGGGCGGGGAGGCGGGCTTGGAGCGAG
GGGGCGGGGCGAGGCGCCACAAAAACGCGCTCGCGCCGGCGCCGAACCGCAACTCCCGGGCAGCCCCGCGCTCCCG
GCAAGATGGTGGCGCGCAGGAGGAAGTGC CGCGCGGGACCCGGAGACCGTATCCCGAGCCCACTGCGTAC
TATTCCAATCAAGTTCTCTGAAAAGCAACAGGCTTCTCACTACCTCTATGTGAGAGCACACGGCGTTCGA
GCACCAAGTCCACCTGGCCTCAGAAGAGGACTCTTTTTGTCTCAATGTGCCCCATACTGCACAGAGGAG
CCTGTCCCGCCTCCTGTCCACCTGTGGCCTCGTCCAGTCTGTAGAGTTGCAGGAGAAGCCGGACCTGGCTGAG
CAAAGGAGTCAAGGTTCGAAGTTTTTTCATCCCAAGCCAGTTCCGGGTTTCCAGGTAGCCTATGTGGTGTTC
AAGCCAAGTGGGGTGTGAGCGGCCTTGGCCCTGAAGGGCCCCCTGTGGTGTCCACAGAGAGCCACCCTGTG
CTGGCATTCAAGTGGATCAGTGACTACGCAGACTCTGTGCCCCGACCTGAGGCCCTGAGGGTGAAGTG
ACGTTTCATGGAGGCATATGACCAGAAGATCGCTGAGGAAGAAGCTAAGGCCAAGGGGGAGGAGGGGGTCCCT
GAGGAGGGCTGGGTGAAGGTGACCCGCCGGGGCGGGCGCCTGTGCTCCCCCGGACTGAGGCAGCCAGCTTGC
GTGCTGGAGAGGGAGAGACGGAAGCGCAGCGAAAAGAGCTGCTCAACTTCTACGCCTGGCAGCATCGAGAGAG
CAAGATGGAGCATCTAGCGCAGCTCGCAAGAAGTTCGAGGAGGACAAGCAGAGGATCGAGCTGCTGCGGGCCAG
CGCAAAATCCGACCGTACTGAGCTGTGAGAGCCGCAGTGAATGGCTGGAGGTGCAGGGCCAGGAGGAGGCGAGGC
AGGGCCTGCAGCGTCTCTGAGAGGCCGAGCTCTGGCCAACGGGCCCCAGGTTGAAGGCCACCGCGTCCAACAGC
CCCATCAGAGTCCACACAGGCCAGGAGGGAAGGACCAGGCCACCCCTCGGGTCTTGTGCTTCAGCAGTCTGGGG
ACCCAGGCGTGCAGAGAGGAGGACTTGTCTTCTGCTTCTTGGCTCCACACCCTCCTCTCCAGGACCCTGGATG
AATCCGTTCTGTGCTTCTTTTTCCCTCAATGCAAAAGCCCTTGCTGGCAACGAAAAGCCTCAAAAGCAGTGAGA
ATACAAGAACCTTTTTATTTTCCATCCAGTTGGGCAGCAGGGAAGGCTAGGTGGGCCCAGCCTGCCCTTCTTCC
TCCAGCTGGCTGGATATTTATTATTAGCCAGGAGAAAGCAGCCCTGGAACCCAGACTCTGTCTCCCTCTTGAGGT
CACAGATGTTGAAGTTGGAATCTCGCTCCTTCCCCTGACTACCATCCTAGGCTGGGCTCAAGACTAGTGAGGCC
GTCCCCACCATCCCTGGCCTTGTGTGGGGCTCAGGAATCAGAGTCCAGTGTGAGTCTGGGAGCACTAGGTC
TTCATAGTTCCAGGCCAGAGCTACAGCTGGGCTGGGAGCATGTGTGTGCACTGTAAGAAGGAGCTGATGATACT
GGCCACGTGCTGGGGTTCGCTCATGTGGACACAGTGATTGCCTGGGACTTCCACAACTGGAAGTCTCTTTGAG
GGTGGATTTTCATCGTGTCTATCATGAACGACAGGGACTCCTTCTCAGAGTAATTCTGTCTTGAATCAAAATATCC
GTGGACTGCTTTGATCAACAGGACATGGCCTGCAGCTTCTGATGGAATGCGCACACAGCTCCCTGCTGATGAAG
TCAATGCTGTTCTCTGCCCAGGCGAGCCTCTGGTCTCTGTTTCAAGACAGCTGTGGGCACCTTCGTGGTTCCCT
CTTTCAGGAGAACTCCCCGCACTCCTCACTCAAGTGGCTATTGCTCTTCAAGTAACCTCTGCAGCAGCT

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FIGURE 378

MKVEPWRA GPGRRAWSEGAGQAPQKRARAGAEPQLPATPALPGGKMVARRRKCARGTRRPYPEPTAYAAIPIKFS
EKQQASHYLYVRAHGVRQGTKSTWPQKRTLFVLNVPYPYCTEESLSRLLSTCGLVQSVELQEKPDLAESPKESRSK
FFHPKVPVPGFQVAYVVFQKPSGVSAALALKGPLLVESTESHPVKSGIHKWISDYADSVDPDPEALRVEVDTFMEAYD
QKIAEEEEAKAKGEEGVPDEEGWVKVTRRGRRLCSPGLRQPACGCWRGRDGSAAKRAAQLLRLAASREQDGASSAA
RKKFEEDKQRIELLRAQRKFRPY

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FIGURE 379

GGAACAGTGTGGCCCGCCATGTTCTTCTCCGCGGCGCTCCGGGCCCCGGGCGGCTGGCCTCACCGCCCACTGGGGA
AGACATGTAAGGAATTTGCATAAGACAGCTATGCAAAATGGAGCTGGAGGAGCTTTATTTGTGCACAGAGATACT
CCTGAGAATAACCCTGATACTCCATTTGATTTACACCAGAAAACATAAGAGGATAGAGGCAATTGTAAAAAAC
TATCCAGAAGGCCATAAAGCAGCAGCTGTTCTTCCAGTCCTGGATTTAGCCCAAAGGCAGAATGGGTGGTTGCCC
ATCTCTGCTATGAACAAGGTTGCAGAAGTTTTACAAGTACCTCCAATGAGAGTATATGAAGTAGCAACTTTTTAT
ACAATGTATAATCGAAAGCCAGTTGGAAAGTATCACATTCAGGTCTGCACTACTACACCCTGCATGCTTCGAAAC
TCTGACAGCATACTGGAGGCCATTCAGAAAAAGCTTGGAATAAAGGTTGGGGAGACTACACCTGACAAACTTTTC
ACTCTTATAGAAGTGGAATGTTTAGGGGCCTGTGTGAACGCACCAATGGTTCAAATAAATGACAATTACTATGAG
GATTTGACAGCTAAGGATATTGAAGAAATTATTGATGAGCTCAAGGCTGGCAAAATCCCAAAACCAGGGCCAAGG
AGTGGACGCTTCTCTTGAGCCAGCTGGAGGTCTTACCTCTTTGACTGAACCACCAAGGGACCTGGATTGGT
GTACAAGCAGGCCTTTAATTTATATTGAACTGTAAATATGTCACTAGAGAAATAAAATATGGACTTCCAATCTAC
GT

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FIGURE 380

MFFSAALRARAAGLTAHWGRHVRNLHKTAMQNGAGGALFVHRDTPENNPDTPFDFTPENYKRIEAIVKNYPEGHK
AAAVLPVLDLAQRQNGWLPISAMNKVAEVLQVPPMRVYEVAIFYTMYNRKPVGKYHIQVCTTTTPCMLRNSDSILE
AIQKKLGIVGETTPDKLFTLIEVECLGACVNAPMVQINDNYIEDLTAKDIEEIIDELKAGKIPKPGPRSGRFSC
EPAGGLTSLTEPPKGPFGVQAGL

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FIGURE 381

CTCGGCCCCGGGCTGCCGCGCCAGCCCCTCTCCGCGGCGGGGGACCGGGCTGCCTTGCCCCCTCAGCGCTCGCGT
CTTTTCCGGCAGTTGGAACGCTTCCTGTTGTCTCACCCGTAACCGCCTGTTGCCCCCTGTCTCAGAGTCCCTCA
CGCGTCCCCCTCCCGTCTTTGGCTCGTTGGCTGCCGCGCGCGGGGCTTCGCCAGCCTTCAAGTCGAGACTACTGGC
CGAAGGGGCGTCTGCGGCTCTCCGCCGTCCCCAGCCCTGCCTCTCCCTGGGCTCTGCAGCCATGCAATGACAGG
CTCAACACCTTGCTCATCCATGAGTAACCACACAAAGGAAAGGGTGACAATGACCAAAGTGACACTGGAGAATTT
TTATAGCAACCTTATCGCTCAACATGAAGAACGAGAAATGAGACAAAAGAAGTTAGAAAAGGTGATGGAAGAAGA
AGGCCTAAAAGATGAGGAGAAACGACTCCGGAGATCAGCACATGCTCGGAAGGAAACAGAGTTTCTTCGTTTGAA
GAGAACAAGACTTGGATTGGAAGATTTTGAGTCCTTAAAAGTAATAGGCAGAGGAGCATTGGTGAGGTACGGCT
TGTTTCAGAAGAAAGATACGGGACATGTGTATGCAATGAAAATACTCCGTAAAGCAGATATGCTTGAAAAGAGCA
GGTTGGCCACATTCGTGCGGAGCGTGACATTCTAGTGAGGCAGACAGTTTGTGGGTTGTGAAAATGTTCTATAG
TTTTTCAGGATAAGCTAAACCTCTACCTAATCATGGAGTTCTTCGCTGGAGGGGACATGATGACCTTGTGTATGAA
AAAAGACACTCTGACAGAAGAGGAGACTCAGTTTTATATAGCAGAAACAGTATTAGCCATAGACTCTATTACCA
ACTTGGATTTCATCCACAGAGACATCAAACCAGACAACCTTCTTTTGGACAGCAAGGGCCATGTGAACTTTCTGA
CTTTGGTCTTTGCACAGGACTGAAAAAAGCACATAGGACAGAATTTTATAGGAATCTGAACCACAGCCTCCCCAG
TGATTTCACTTTCCAGAACATGAATTCAAAAGGAAAGCAGAAACCTGGAAAAGAAATAGACGTCAGCTAGCCTT
CTCCACAGTAGGCACTCCTGACTACATTGCTCCTGAGGTGTTTCATGCAGACCGGGTACAACAAGCTCTGTGATTG
GTGGTCGCTTGGGGTGATCATGTATGAGATGCTCATCGGCTACCCACCTTTCTGTTCTGAGACCCCTCAAGAGAC
ATATAAGAAGGTGATGAAGTGGAAAGAACTTTGACTTTTCTCCAGAAGTTCCCATCTCTGAGAAAGCCAAGGA
TCTAATTTTGAGGTTCTGCTGTGAATGGGAACATAGAATTGGAGCTCCTGGAGTTGAGGAAATAAAAAGTAACTC
TTTTTTTGAAGGCGTTGACTGGGAACATATCAGAGAGAGACCTGCTGCAATATCTATTGAAATCAAAGCATTGA
TGATACCTCAAACCTTCGATGAGTTTCCAGAATCTGATATTCTTAAGCCAACAGTGGCCACAAGTAATCATCCTGA
GACTGACTACAAGAACAAGACTGGGTCTTCATCAATTACAGTACAAGCGCTTTGAGGGCCTGACTGCAAGGGG
GGCAATACCTTCTACATGAAAGCAGCAAAATAGTACTCTTGCCACGGAATCCTATGTGGAGCAGAGTTCCTTGT
ATAACATCATGCTTTTCTCTCACACTCTTGAAGAGCTTCCAAGAAGTTGATGGAACCCACCAATATGTCATAGT
AAAGTCTCCTGAAATGTGGTAGTAAGAGGATTTCTTCCATAATGCATCTGAAAACCTGTAAACAAGACAACCA
TTTCTACTACGTCGGCCATAAACAGCTATCCTGCTTTGGAAGAGAAGCATCATGAGCCAATTTGATAGGTGTTTT
AAAAATAACTTGAGTTTTTCTAAGTTTCATCAGAATGAAGGGGAAAAACAGCCATCATCCAACATTATTGAGATTG
TCGTGTATAGTCATCGAATATCAGCCAGTTCTGTAAATTTGTGACACGCTCTCTGCCAAGCCCACCAAGTATTT
CCTTTATAGCTAAAAGTTCCATAGTACTAAGGAAATAAAGCAATAAAGACAGTCTCAGCAGCCAGGATTCTGGCT
GAAGGAAATGATCCGCCACCCTGAGGGTGGTGATGGTAGTTTCTACCCATACCTCAGCCTCAGGCGAGTGGCTTA
TAGCCTCCATTTCATGGTGACTTTATTTATGGTACTAAGATAAAGACTGTCAATCCATTGATTTATCTCCTCCTG
TCCCCATCTAAAATACCCATGCTGCTTTTCTGAGTGTTGATGGGGGTTACCAGCTTGATCCACTGTTGCTCTTA
GAAGGCCCAGAAAGTCTTTGGGCATTGCCAAGAAATCCCGGATTATGTGGAACCCCTCACTTTCTCTTACGGC
TGTACCAGAAAATCCCTAAGACAGATCTTGCCGTGGACTAGCAATACCTGCAAGTGCTGCCAATGGGAACCTCAAT
TTATTCTGGGAACCTAACGAGGAGAGCCAGGCCTAGGCAGGAGGCCTGGAACCCTCTTGGCTAAGGTGCTGTT
CCTGTTCTGCAAGGTCTCCAGAACCCCTTTGGAATGGTGAAGGAACCAGCCCAATAGAAGTACAGAGCCAGCT
GACAAGTCTTGTAAAGCTCACTCCTCAGTCTTGGCACAGCCATGTTTTGTCTTCTCTCTTGGTATTTCTTCTC
TCCCAACTTTAGCCATTTTGCCTTGGAATCATGATTACAATTTTTTCTTTGAGATGCCTTCTTGGGGGATACT
CCTCCCCACCCTAAAGGGTCGCTGCAACTTAGGCGGATTGGGCTCTCTGCTGTGGCGTTCTCTCTTGGAGAGAC
CCTCTGAATTTTAGCACAAAGTGCTTCTGTTTACAGCTGCCACCACCTTTAGAGGAATTCGTGCAAAAAATG
TGGAGGCTCCATATTAATGCATTATTTTTTAAAAGTTTTGATAACTCTTAAAGCATCATTGACCTATGTGGG
AACTTTGCCTGTTGCAAAGTATGTGGCCGAGCTGCAGCTGGGAGCCTGCTTTCTGCCAGTCTTGAGGTTCTGAA
GATCAGCTTTGAAAGGAAAGTATGTCTAGCTTAGCCATTGAGAAGAGAAAAATGGAATATCAGAGTTACAGTTG
TCAGTGAAACTACTTTGGATTTTAACTCTTAGAGGAAGAAAAAGGTTAGGGAAGTGCAACTCTGGATGAAGG
TGATGTGTTTGCCTCTCAGTCTTTCATTCTAGCCTGCTAGTGAAAAGGAAGTAAATGAGATTCTTTGTGTGAC
TTTGTAGTCTCTTTGTATTACCAATAGTTGGGGTGTGACTCCTGTGTGTTTTGCAAGAATGTGTGGTAAGCCT
GGGTAAAGAGAAGGAAGTGCAGGTGTTGGGAGAGTCTTGTGTTGGGGAGTGGCAGGGGATGATTTGTTTCAGGGG
AAAATGCCACATTTTAACTTTTAACTTCTGAATAAACTGTGTAAAAACAAAAA

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FIGURE 382

MAMTGSTPCSSMSNHTKERVMTIKVTLENFYSNLIAQHEEREMRQKKLEKVMEEEGLEKDEEKRLRRSAHARKETE
FLRLKRTRLGLEDFESLKVIGRGAFGEVRLVQKKDTGHVYAMKILRKADMLEKEQVGHIRAERDILVEADSLWVV
KMFYSFQDKLNLYLIMEFLPGGDMTLLMKKDTLTEEETQFYIAETVLAIIDSIHQLGFIHRDIKPDNLLLDKSGH
VKLSDFGLCTGLKKAHRTEFYRNLNHSLSDFTFQNMNSKRKAETWKRNRRLAFSTVGTDPDYIAPEVFMQTGYN
KLCDWWSLGVIMYEMLIGYPPFCSETPQETYKKVMNWKETLTFFPEVP ISEKAKDLILRFCCWEHRIGAPGVEE
IKSNSFFEGVDWEHIRERPAAISIEIKSIDDTSNFDEFPESDILKPTVATSNHPETDYKNKDWVF INYTYKRFEG
LTARGAIPSYMKAAC

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FIGURE 383A

GGACTGTGTGTGTCTGGCTGTAGCAGACGCGAGGCGGCGACGAGGCGCCGGGGACCCGCGCGAGGGGCGGCCGGG
AGGCGGCGGCGGCGGCCGCCAGAAGTAGCAGCAGGACCGGCGGCGGCGACGGCAGCCCTGAAATGCATTTTCCTC
TCCAGCGGCCATGTTAACCAGGAAACCTTCGGCCGCGCTCCCGCCGCTACCCGACCGGCCGAGGTGGGGACAG
CGCGTTTCGTCAGCTTCAGGCTTCCCCGGGGCTCGGTGCAGGGCCACCCGGAGCGGAGTGGGGACTGGCCCCGC
CCCATCGCCCTGCCGCTCTCCGGGCCAGCAACGCTGCCGCCGACGCCACACGATTGGCGGCAGTAAGCA
ATGAATGATCACCTGCATGTCGGCAGCCACGCTCACGGACAGATCCAGGTTCAACAGTTGTTTGAGGATAA
TAACAAGCGGACAGTGCTCACGACACAACCAATGGGCTTACAACAGTGGGCAAAACGGGCTTGCCAGTGGT
CAGAGCGGCAGCTGGACAGCATTATAGACGGCAGGGGAGCTCCACCTCTCTAAAGTCCATGGAAGGCATGGG
AGTGAAAGCCACCCCATGACACCTGAACAAGCAATGAAGCAATACATGCAAAACTCACAGCCTTCGAACA
GAGATTTTCAGCTACCCTGAAATATATTTCTTGGGTCTAAATGCTAAGAAGCGCCAGGGCATGACAGGTGG
ACAATGGTGGCTATGATGATGACCAGGGATCATATGTGCAGGTGCCCCACGATCACGTGGCTTACAGGTA
GCTCCTCAAGGTCATTGGGAAGGGGAGCTTTGGGCAGGTGGTCAAGGCCTACGATCACAAGTCCACCAGCA
GGCCCTAAAGATGGTGCAGGAATGAGAAGCGCTTCCACCGGCAAGCAGCGGAGGAGATCCGAATCCTGGAACA
GCGGAAGCAGGACAAGGATAACACAATGAATGTATCCATATGCTGGAGAATTTACCTTCCGCAACCACAT
TGCTATGACGTTTGAGCTGCTGAGCATGAACCTCTATGAGCTCATCAAGAAGAATAAATTCAGGGCTTCAGTCT
GCCTTTGGTTTCGAAGTTTGCCCACTCGATTCTGCAGTGCTTGGATGCTTTGCACAAAACAGAATAATTCAGT
TGACCTTAAGCCCGAGAACATTTTGTTAAAGCAGCAGGGTAGAAGCGGTATTAAAGTAATTGATTTTGGCTCCAG
TTGTTACGAGCATCAGCGTGTCTACACGTACATCCAGTCGCGTTTTTACCGGGCTCCAGAAGTGATCCTTGGGGC
CAGGTATGGCATGCCATTGATATGTGGAGCCTGGGCTGCATTTTAGCAGAGCTCCTGACGGGTTACCCCTCTT
GCCTGGGGAAGATGAAGGGGACCAGCTGGCCTGTATGATTGAAGTGTGGGCATGCCCTCACAGAACTGCTGGA
TGCATCCAAACGAGCCAAAATTTTGAGCTCCAAGGTTATCCCCGTTACTGCACTGTACGACTCTCTCAGA
TGGCTCTGTGGTCTAAACGGAGGCCGTTCCCGGAGGGGAAACTGAGGGGCCACCGGAGAGCAGAGAGTGGGG
GAACGCGCTGAAGGGGTGTGATGATCCCTTTTCCTTGACTTCTTAAACAGTGTTTAGAGTGGGATCCTGCAGT
GCGCATGACCCAGGCCAGGCTTTGCGGCACCCCTGGCTGAGGAGGCGGTTGCCAAAGCCTCCCACCGGGGAGAA
AACGTCAGTGAAAAGGATAACTGAGAGCACCGGTGCTATCACATCTATATCCAAGTTACCTCCACCTTCTAGCTC
AGCTTCCAACTGAGGACTAATTTGGCGCAGATGACAGATGCCAATGGGAATATTACGAGAGGACAGTGTGGC
AAACTTGTTAGCTGAGCTCACGTCCCCTGATGCTGGTAACCTGAAAGATACGACATTGCTGAGCCTTACTGGGT
TGAAAAGGAGTAGCTCAGACCTGTTTTTATTGCTCAATAACTCTACTCATTTGTATCTTTTCAGCACTTAATTT
TAATGTAAGAAAGTTGTTTCAATTTGTTTTTATAAATACATGAGGACAATGCTTTAAGTTTTTATACTTTCAGAA
ACTTTTTGTGTTCTAAAAGTACAATGAGCCTTACTGTATTTAGTGTGGCAGAATAATAACATCAGTGGCAGGCCA
CTGATTACTTCATGACTGCCACGCATTTACAGATTGGTGTCAAAGACATTCACTATGTTTTTATGGTTCATGTTA
TATCCTCCCCAGGGTGACAGCCCCCTAAGGCCCTCCTTTCCCTCCATGCTCCAGGTCCATGCACAGGTGTAGCA
TGTCCTGCTTCCGTTTTTTCATAAATTAATCTGGGTGTGGGGGTAGTGGGAGGAGAACGGTCAGAATCAAAGTGA
CATTCTAAGAAAACTGTACCTTAGAGATTTTCCTCTAGTGCTCAAACAAATACAAAATAAGATCCCCAAGGTTT
AAACTGCCCAGTTAGCATTCTGACATTCTAAAAGCCGGCAAAGCAGCTTTTAGTGGATAAATGGGAATGGAAACG
TGTGTGTTTCTCCAAATTTCTAGTATGATCGGTGAGCTGTTTTGTAAAGAAGCCTCATATTACAGAGTTGCTTT
TGCACCTAAATTTAGAATTGTATTCCATGAAGTGTCTCCTCCTTTTCTCTGCTTTTCTCCTCTCTGTTCTCTTT
TAATACCACACGCTCTGTTGCTTGCATTTAGTTTGTCTTCTTCTTCCCTCAGCTGTGTATCCAGACTGTTAATACAGA
AAAGAGACATTTAGCTGTGATTATGACCATTGTTTCATATTCCAATTAAGAAAGAACAGCAGCCTAGCTACTT
AAGGTGGGGATTTTCATAGTTCCAAAGAAGATTTAGCAGATTAGAGTGAGTTACACTTTTTCAGGTGCCACTGTAA
GGTTCTCTCAGCCTGGGAAACTATCAACTCTTTCTTTAAAGAAAGAGGGTTGAAAATCCTCTGGACGAACAGA
AGTCACTTTGGCTGTTTCAGTAAGGCCAATGTTAACAACACGTTTAGAGGAGGAAAAGTTCAACCTCAAGTTAAAT
GGTTTGACTTATTCTTCGTATCATTAGAAGAACCCAGAGATAGCATTCTCTATTTTATTTTACTTTCTTTTGG
TTCTCTGAATAATAATTTTTCACAGTGAAAATTTTTCAGTATTTTATCTACTAATGTATGAGCAATGATCTATATC
AATTTCAAGGCACGTGAAAAAATTTTTTAGTATGTGCAATTTAATATAGAAAGATTTCTGCCTGTTTGGACAAT
AGGTTTTGGGTAGTACAGATTAGGATAAGTAAGCTTATATATGCACAGAGATTATTGTATTACCTGTAAATTGAT
TTACAAGTACTTAAAAGCGTGGTCCCCAGTGAGGCCAAGAAAGTTTCCGGTTAAGTCTTTAATAATAATCCTAC

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FIGURE 383B

AGTTTATCTTAAGAA

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FIGURE 384

MLTRKPSAAAPAAAYPTGRGGDSAVRQLQASPLGAGPTRSGVGTGPPSPIALPPLRASNAAAAAHTIGGSKHTMN
DHLHVGS SHAHQIQVQQLFEDNSNKRTVLTTQPNGLTTVGKTGLPVVPERQLDSIHRRQGSSTSLKSMEGMGKVK
ATPMTPEQAMKQYMOKLTAFEHHEIFSYPEIYFLGLNAKKRQGMTGGPNNGGYDDDQGSYVQVPHDHVAYRYEVL
KVIKGSFSGQVVKAYDHKVHQHVALKMVRNEKRFHRQAEEIRILEHLRKQDKDNTMNVIHMLENFTFRNHICMT
FELLSMNLIELIKKNKFQFSLPLVRKFAHSILQCLDALHKNRIIHCDLKPENILLKQQGRSGIKVIDFGSSCYE
HQRVYTYIQSRFYRAPEVILGARYGMPIDMWSLGCILAELLTGYP LLPGEDEGDQLACMIELLGMP SQKLLDASK
RAKNFVSSKGYPRYCTVTTLSDGSVVLNNGRSRRGKLRGPPESREWGNALKGCDPLFLDFLKQCLEWDPVRMT
PGQALRHPWLRRRLPKPPTGEKTSVKRITESTGAITSISKLP PPS SASKLR TNLAQMTDANGNIQQRTVLPKLV
S

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FIGURE 385A

AAATGTAGAGAAGCAGCCGATAAAATAGCATTGCCTGAAGAAGTTTGGAGGCTGAGAGCAGCAGTAGACTGGCCA
ACTGCAGAGCAAGTTGTTTCTCCAGCCGTGCGGTGCAGCCTCATGCCCCAACCAGCTTAGCCACTGTAAGAAG
ACGTTCACTGTACAGACGACCAAACCTTGCCGTGGAAGAGACAGTTGTGAGATTCCCTTGCAAATTTACATACGAG
AAATGGCTTGTGAAATCATGCCTCTGCAAAGTTCACAGGAAGATGAAAGACCTCTGTCACCTTTCTATTTGAGTGC
TCATGTACCCCAAGTCAGCAATGTGTCTGCAACCGGAGAACTCTTAGAAAGAACCATCCGATCAGCTGTAGAACA
ACATCTTTTTTGATGTTAATAACTCTGGAGGTCAAAGTTCAGAGGACTCAGAATCTGGAACACTATCAGCATCTTC
TGCCACATCTGCCAGACAGCGCCGCCAGTCCAAGGAGCAGGATGAAGTTCGACATGGGAGAGACAAGGGACT
TATCAACAAAGAAAATACTCCTTCTGGGTTCAACCACCTTGATGATTGTATTTGAATACTCAGGAAGTCGAAAA
GGTACACAAAATACTTTTGGTTGTGCTGGAGAAAGGAGCAAGCCTAAACGTCAGAAATCCAGTACTAAACTTTC
TGAGCTTCATGACAATCAGGACGGTCTTGTGAATATGGAAAGTCTCAATTCACACGATCTCATGAGAGAACTGG
ACCTGATGATTTTGAATGGATGTCTGATGAAAGGAAAGGAAATGAAAAAGATGGTGGACACACTCAGCATTTTGA
GAGCCCCACAATGAAGATCCAGGAGCATCCCAGCCTATCTGACACCAAACAGCAGAGAAATCAAGATGCCGGTGA
CCAGGAGGAGAGCTTTGTCTCCGAAGTGCCCCAGTCGGACCTGACTGCATTGTGTGATGAAAAGAACTGGGAAGA
GCCTATCCCTGCTTTCTCCTCCTGGCAGCGGGGAGAAACAGTGACTCTGATGAAGCCCACCTCTCGCCGCAGGCTGG
GCGCCTGATCCGTCAGCTGCTGGACGAAGACAGCGACCCCATGCTCTCTCCTCGGTTCTACGCTTATGGGCAGAG
CAGGCAATACCTGGATGACACAGAAGTGCCTCCTTCCCCACCAAACCTCCCATTTCTTTTATGAGGCGGCGAAGCTC
CTCTCTGGGGTCTTATGATGATGAGCAAGAGGACCTGACACCTGCCAGCTCACACGAAGGATTCAGAGCCTTAA
AAAGAAGATCCGGAAGTTTGAAGATAGATTGGAAGAAGAGAAGAAGTACAGACCTTCCACAGTGACAAAGCAGC
CAATCCGGAGGTTCTGAAATGGACAAATGACCTTGCCAAATTCGGGAGACAACCTTAAAGAATCAAACTAAAGAT
ATCTGAAGAGGACCTAACTCCAGGATGCGGCAGCGAAGCAACACACTCCCAAGAGTTTTGGTTCCCAACTTGA
GAAAGAAGATGAGAAGAAGCAAGAGCTGGTGGATAAAGCAATAAAGCCAGTGTTGAAGCCACATTGGAATCTAT
TCAGAGGAAGCTCCAGGAGAAGCGAGCGGAAAGCAGCGCCCTGAGGACATTAAGGATATGACCAAAGACCAGAT
TGCTAATGAGAAAGTGGCTCTGCAGAAAGCTCTGTTATATTATGAAAGCATTTCATGGACGGCCGGTAACAAAGAA
CGAACGGCAGGTGATGAAGCCACTATACGACAGGTACCGGCTGGTCAAACAGATCCTCTCCCCGAGCTAACACCAT
ACCCATCATTGGTTCCCCCTCCAGCAAGCGGAGAAGCCCTTTGCTGCAGCCAATTATCGAGGGCGAAACTGCTTC
CTTCTTCAAGGAGATAAAGGAAGAAGAGGAGGGGTGAGAAGACGATAGCAATGTGAAGCCAGACTTCATGGTCAC
TCTGAAAACCGATTTTCAGTGCACGATGCTTTCTGGACCAATTCGAAGATGACGCTGATGGATTTATTTCCCAAT
GGATGATAAAATACCATCAAAATGCAGCCAGGACACAGGGCTTTCAAATCTCCATGCTGCCTCAATACCTGAACT
CCTGGAACACCTCCAGGAAATGAGAGAAGAAAAGAAAGGATTGAAAGAAACTTCGGGATTTTGAAGACAACCTT
TTTCAGACAGAATGGAAGAAATGTCCAGAAGGAAGACCGCACTCCTATGGCTGAAGAATACAGTGAATATAAGCA
CATAAAGGCGAAACTGAGGCTCCTGGAGGTGCTCATCAGCAAGAGAGACACTGATTCCAAGTCCATGTGAGGGGC
ATGGCCAAGCACAGGGGGCTGGCAGCTGCGGTGAGAGTTTACTGTCCCCAGAGAAAGTGCAGCTCTGGAAGGCAG
CCTTGGGGCTGGCCCTGCAAAGCATGCAGCCCTTCTGCCTCTAGACCATTGCGCATCGGCTCCTGTTTCCATTGC
CTGCCCTTAGAAACTGGCTGGAAGAAGACAATGTGACCTGACTTAGGCATTTTGTAAATTGGAAGTCAAGACTGCA
GTATGTGCACATGCGCACGCGCATGCACGCACACACACACAGTAGTGGAGCTTCTTAACACTAGCAGAGATT
AATCACTACATTAGACAACACTCATCTACAGAGAATATACACTGTTCTTCCCTGGATAACTGAGAAACAAGAGAC
CATTCTCTGTCTAACTGTGATAAAAACAAGCTCAGGACTTTATTCTATAGAGCAAACCTTGCTGTGGAGGGCCATG
CTCTCCTTGGACCCAGTTAACTGCAAACGTGCATTGGAGCCCTATTTGCTGCCGCTGCCATTCTAGTGACCTTTC
CACAGAGCTGCGCCTTCTCACGTGTGTGAAAGGTTTTCCCTTCAGCCCTCAGGTAGATGGAAGCTGCATCTGC
CCACGATGGCAGTGCAGTCATCATCTTCAGGATGTTTCTTCAGGACTTCTCAGCTGACAAGGAATTTTGGTCCC
TGCCTAGGACCGGGTTCATCTGCAGAGGACAGAGAGATGGTAAGCAGCTGTATGAATGCTGATTTTAAACCAGGT
CATGGGAGAAGAGCCTGGAGATTCTTTCTGAACACTGACTGCACCTACCAGTCTGATTTTATCGTCAAACACCA
AGCCAGGCTAGCATGCTCATGGCAATCTGTTTGGGGCTGTTTGTGTGGCACTAGCCAAACATAAAGGGGCTTA
AGTCAGCCTGCATACAGAGGATCGGGGAGAGAAGGGGCTGTGTCTCAGCCTCCTGAGTACTTACCAGAGTTTA
ATTTTTTTAAAAAAATCTGCACTAAAATCCCCAACTGACAGGTAAATGTAGCCCTCAGAGCTCAGCCCAAGGC
AGAATCTAAATCACACTATTTTCGAGATCATGTATAAAAAGAAAAAAGAGTATGCTGTGTGGCCAATTATA
ATTTTTTCAAAGACTTTGTACAAAACCTGTCTATATTAGACATTTTGAGGGGACCAGGAAATGTAAGACACCAA
ATCCTCCATCTCTTCAGTGTGCTGATGTACCTCATGATTGCTGTACTTTTTTAACTCCTGCGCCAAGGACA

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FIGURE 385B

GTGGGTTCTGTGTCCACCTTTGTGCTTTGCGAGGCCGAGCCCAGGCATCTGCTCGCCTGCCACGGCTGACCAGAG
AAGGTGCTTCAGGAGCTCTGCCTTAGACGACGTGTTACAGTATGAACACACAGCAGAGGCACCCTCGTATGTTTT
GAAAGTTGCCTTCTGAAAGGGCACAGTTTTAAGGAAAAGAAAAGAATGTAAACTATACTGACCCGTTTTTCAGT
TTTAAAGGGTCGTGAGAACTGGCTGGTCCAATGGGATTTACAGCAACATTTTCATTGCTGAAGTGAGGTAGCA
GCTCTCTTCTGTCAGCTGAATGTTAAGGATGGGGAAAAAGAATGCCTTTAAGTTTGCTCTTAATCGTATGGAAGC
TTGAGCTATGTGTTGGAAGTGCCCTGGTTAATCCATACACAAAGACGGTACATAATCCTACAGGTTTAAATGTAC
ATAAAATATAGTTTGGAATTCTTTGCTCTACTGTTTACATTGCAGATTGCTATAATTTCAAGGAGTGAGATTAT
AAATAAAATGATGCACCTTAGGATGTTTCCTATTTTTGAAATCTGAACATGAATCATTACATGACCAAAAATTG
TGTTTTTTTAAAAATACATGTCTAGTCTGTCCTTTAATAGCTCTCTTAAATAAGCTATGATATTAATCAGATCAT
TACCAGTTAGCTTTTAAAGCACATTTGTTTAAGACTATGTTTTTGGAATAACGCTACAGAATTTTTTTTAAAG
CTACAAATAAATGAGATGCTACTAATTGTTTTGGAATCTGTTGTTTCTGCCAAAGGTAAATTAATAAGATTTA
TTCAGGAATCCCATTTGAATTTGTATGATTCAATAAAAGAAAACACCAAGTAAGTTATATAAAAT

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FIGURE 386

MACEIMPLQSSQEDERPLSPFYLSAHVPQVSNVSATGELLERTIRSAVEQHLFDVNNSGGQSSSEDSSESGTLSASS
ATSARQRRRQSKEQDEVHRGRDKGLINKENTPSGFNHLDDCILNTQEVEKVHKNTFGCAGERSKPKRQKSSTKLS
ELHDNQDGLVNMESLNSTRSHERTGPDDFEWMSDERKGNEKDGGHTQHFESPTMKIQEHPSLSDTKQQRNQDAGD
QEESEFVSEVPQSDLTALCDEKNWEEPIPAFSSWQRENSDSDEAHLSPQAGRLIRQLLEDSDPMLSPRFYAYGQS
RQYLDDEVPSPSPNSHSFMRRRSSSLGSYDDEQEDLTPAQLTRRIQSLKKKIRKFEDRFEEKKYRPSHSDKAA
NPEVLKWTNDLAKFRRQLKESKLKISEEDLTPRMRQRSNTLPKSFGSQLEKEDEKKQELVDKAIKPSVEATLESI
QRKLQEKRAESSRPEDIKDMTKDQIANEKVALQKALLYYESIHGRPVTKNERQVMKPLYDRYRLVKQILSRANTI
PIIGSPSSKRRSPLLQPIIEGETASFFKEIKEEEEGSEDDSNVKPDFMVTCLKTDF SARCFLDQFEDDADGFISPM
DDKIPSKCSQDTGLSNLHAASIPELLEHLQEMREEKKRIRKKLRDFEDNFFRQNGRNVQKEDRTPMAEEYSEYKH
IKAKLRLLEVLISKRD TDSKSM

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FIGURE 387

CCGCGCAGCAGCCATCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCAAAGGAATT
GAAAGGAACCACTCATTCACTTCTAGACGACAAAATGCAAAAAGGAGGCCAAAGACTTTTGGAATGGATATGAA
AGCATACCTGAGATCTATGATCCACATCTGGAATCTGGAATGAAATCTTCCAAGTCCAAGGATGTACTTTCTGC
TGCTGAAGTAATGCAATGGTCTCAATCTCTGGA AAAACTTCTTGCCAACCAAAGTGGTCAAAATGTCTTTGGAAG
CTCTAAAGTCTGAATTCAGTGAGGAGAATATTGAGTTCTGGCTGGCTTGTGAAGACTATAAGAAAACAGAGTC
CTTTTGGCCCTGTAAAGCAGAAGAGATATATAAGCATTGTGTCATTGATGCTGCTAAACAAATCAATAT
ACTTCCGCACTCGAGAATCTACAGCCAAGAAGATTAAAGCACCAACCCACGTTTGTGATGAAGCACAAAA
ATCATATATACTCTTATGGAAAAGGACTCTTATCCAGGTTCTCAATCAGATATTTACTTAAATCTTCTAAA
ACCTGCAGGCTAATAGCCTAAAGTGACTGGTCCCTGGCTGAAGGGAATTAACAGATAGTATCAAGCGCAGAAG
ATGTGCCAGTATGGCTCCCTGGGTGAACAGCTTGGCCTTTTGTGGGTGTCTTGACAGCCCAAGAAGAACAAAT
CAGAAATGGATTAACATGAAAGTTATCCAGGCGCAGAGTTGAAGAAGCATAAGCAAGACAAAAACAGAGAGA
CAGAAGGAGGAAGATACTGTGGTACTGTCATAAAAAACAGTGGAGCTCTGTATTAGAAAGCCCCTCAGAACT
GAAGGCCAGGTAACCTCTAGTTACACAGAACTGTGACTAAAGTCTATGAACTGATTACAACAGACTGTAAGA
CAAAGTCAACTGACATCTATGCTACATATTATTATATAGTTTGTACTGAGCTATTGAAGTCCCATTAACCTAA
AGTATATGTTTTCAAATTGCCATTGCTACTATTGCTTGTGCGGTGTTATTTTATTTTATTGTTTTGACTTTGGAA
GAGATGAAGTGTGTATTTAACTTAAGCTATTGCTCTTAAAACAGGGAGTCAGAAATATATTTGTAAGTTAAATCA
TTGGTGCTAATAATAAATGTGGATTTTGTATTAAATATATAGAAGCAATTTCTGTTTACATGTCCTTGCTACTT
TAAAAAAGTTGCATTTATTCCTCAGATTTTAAAAATAAATAAATAATTCAATTTAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 388

MPGMFFSANPKELKGTTHSLDDKMQRPKTFGMDMKAYLRSMIPHLESGMKSSKSKDVL SAAEVMQWSQSLEK
LLANQTGQNVFGSFLKSEFSEENIEFWLACEDYKKTESDLLPCKAEIYKAFVHSDAAKQINIDFRTRESTAKKI
KAPTPTCFDEAQKVIYTLMEKDSYPRFLKSDIYLNLLNDLQANSLK

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FIGURE 389A

CTCACACATAGACACGCACACACACCCCTTTCTCGCACACACACACACACACACACTCTCACACATTCTCAC
ATGCTAGACCCTTCTAAGCAGCTTGTCCGTTTTTACACATGTATCTGAACTCTCCTGCATCACTCTTGGCCATTT
TCTCGCAITCGATTGCTTTTGCCGTTTTTATTAGATCAGTACTTGATTTTCATTTTTCAGTCTACTTT
GGGGTTCTCGCAGTGGATAATTTAGCCAAAATGTTTTCTTGTGGAGACATTAGCTGACAATTTCCACCACAGAC
TGGCTTGTACGTCTCCAGGGAGACCTAAACCTGGCTCCCCTCCCACCGCAGTTCTTAATATTGTGGATAAGAG
ATCCATCTTTCTCATTCTGGATACCTACTTAGTGCTCATGGAAGAAGGGGTGCCCTGCCAGCCCCAGCTGCTAA
GCTCACACCTCCTGTCAAAAAGTCCCAGGACATGCACGACGAGAGGAGCAAGCTGGTGAATGAGTATGCGTGTCTG
AGTGCTGGAACCTCTGGGGATGGGGCATCGTCTGTTTGTGCCCTCGGCTTCTGGCGACCTCAAAGGAAGACCTTCT
GCAGGCTGATTTTGAAGGTGCTTTAAAGTTCTTTAGAGTTTCTTCCAAAGAGATACAGGGCAGAGGAAAATGC
AAGAAGACTGATGGAGCAGGCTTGCAATATTAAAGTACCAACCAAGAAGCTGAAGAAATATGAGAAAGAATATCA
GACAATGCGAGAGAGTCACTGCAACAGGAAGACCCAATGGATAGATACAAGAGGGAGAACCAGGAAATACAGGA
GGCCAGCATGAGGTTGGAACAAGAGAATGATGACCTTGCCCATGAACTAGTAACAAGCAAAATTTGCTCTACGGAA
TGACTTGGATCAGGCAGAAAGACAAGGCAGATGTGTTGAATAAAGAGCTCCTTTTGACCAAAACAGAGGCTGGTGG
GACTGAAGAGGAGAAGAGGAAGCAAGAGGAAGAGACTGCCAGCTAAAAGAAGTCTTCAGGAAAACAGCTAGAGAA
GGCAGAATATGAAATAAAGAAGACTACAGCTATCATTGCTGAGTATAAACAGATCTGTTTCGCAGTTGAGTACCAG
GCTGGAGAAACAGCAAGCAGCCAGCAAGGAGGAGCTGGAAGTGGTAAAGGGTAAGATGATGGCATGCAAACTG
CAGTGACATTTTCAGCAAGGAGGGTGCTTTGAAACTAGCAGCCACAGGCAGAGAGGACCAGGGAATTGAAACAGA
TGATGAGAAGGACTCACTTAAGAAGCAGCTGAGAGAGATGGAAGTGGAACTGGCACAAACCAAACTGCAGTTGGT
GGAGGCCAAGTGTAATAATTCAGGAACCTGAACATCAGAGAGGAGCCCTTATGAATGAAATCCAAGCTGCGAAAA
CTCTTGGTTTAGCAAAACCCTGAACCTATCAAAACGGCCACGGGCACCCAGCCATTGCAGCCAGCACCCGGTCAC
CCAGCCACCCAAGGAGAGCACATAGTTCCAGCCTTACCCAAGCACAAGAGCACAATGTTCAAACCAATGGAAATC
TGGGAGGATTCTTCTGCTGTCCCTTTGAAGGAAAGTCAAGGAGGCCAGAAAACAAGCCAGAATTTTTTCAGTAGC
TCTCACTCTTTCTGTATGACACTTTTCAAAGGGATGCTATTTAAACTGACCTGTTCTATGTTGAATACCTATTT
TCCAGCTTCTGGAAGGCCATGTTTCAATCCATCATAGTATTACACATTATTTTGTGCTGATGTTTAGTTGGA
AATAAGTAATTCAGAACTAAATGCTTTTTTATTAGAAATTATTCATAATTATTTTATCTTACATAAAAATGGAG
ACATCTGTTATTCCAAGGTTGAAGTGATAAGAAGATCTTTGTACAGGAAAAAAAAAATGAAACCTAAACATC
TTAAGTTTTTCAGGATTTATTCAGATAAAGCACACTGTGGGGCCAGGCATGACCACTCTCAGTTTCTCTCTGAGC
CTGATTCCCAGGGAAGTGTTAATCCTGTCCAAAGGAAAGAACCAATCAGCGATCATTGGTTTACTTTTCAATTTCT
GTTCCGGTACATCTGGAAATGAAGTGCCAGGAATAGACGGGCTGTTTCAAGATTATACGCTAGGTAAAAGGAACTGAA
ATTTTAATAAGTGATAGGTCAGGATCATTGCGGCTGTGGTATTCTAACAGATCCTTTTAAAGATGCCACATAGGAC
TTGTGAGTTCCTAAGTACACCAAGTATGGACACAGATGTGACTTCTGGCAATTATAAAGTTAAAGGTGGATATT
GCACCTTACAGACTTAGGGAGCCTTTACCAGAGACGCCTAAAAAGCCCCAGGTTTCAAGCATTGTGCTGAATAGAG
TGGAATATAGAACCAGGGACAGAGTATTTTCAATTAACGTTGATATATACTTGCTAAGGAAACACTAACAACTG
TAACCTTTGTTAAAGGACATAGTATTGAAATGGGAAATAGAGGTCAAGCTCACATCATCTTAGTTTAAATGCTGGGC
AACTTTTTTCTGATTTCTGTAGTTCCCTGAAAATGTGTCTTCGTACCCATAAAGAGATACAAATGCATTTGTAA
CATTTTTTGATTGAATATAAAACCTTTACAGAAATACTTATCTCATGGAAAAGTAAAGCTATTGTTTAAAAATTAG
TGGAAATATTTTTTCAATTATATTTAACATGCCTATAAAAAATAGTCCTTGCAGGAAATTATTTGATAAGAGCAAA
ACTATTTTTATTTTATAAACTATTTTGGAGGCCTCTGATCCTTTCAAACCAACCAACTACTATTAGATATGTAC
AATAACATTTGTTGATATTAATCATTGGCCTCATTGTTGAACATATTATTGCAAAGAATCTTAAACTCTGTAGT
GCCAGAATGATTCTCATCTGTGCCATATTTTGCAATTAAGAAGTAACACACCCTTAGAAGAATCAAATAAGAGCCA
TCTACATCCCAGGAGGATGCACCAAGTTGCTCACAGTGGATCTTTTCTCTAAATGATCTTTTATGTTCTAAAA
AGTGAAATCCCCTTTATCTGTGTTTATATTCTCTACAGCCATAAACTGATGTGATTGTTATGTTATACTCATC
AGATAACTTTTTCTTACATAAATCTTTTATTGTTGTTCTGACATCTTTCATTACAAAATTTATTTTCTTAACAA
AAAGGAACATAACCCAGCATTCCAAGTGTCTGTGTTGGCTTAAACATCTCTACATGGTGGTCTAGATAAGCTAA
TTTTTTTTTTTTTTTTTTTTGTAATAATGTAATAGCTAGAAAATGTTATCTTCGCGCTTGTTTTGTAAATCATTT
AGTATAGGCTGTTAGCTTTTACTGGTACTTTACGCTTTGATTCCAAGAAGCCTTGTGCAGTTGCCTTATCAAATGG
CCAGCTAAATTAAGATGCTCTTTTGTGTTGTGAATTCATAGTTCTGTACAGAGCTTGTTTCAATTTACAAAA
TAAGTACATTCACAGAATGCCTAAATTTGTGTAATTTCTTTAAATAATAGTAGGTGAGGGAGAAACATAATGGC

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FIGURE 389B

TCTAGGTCAATCCCTTATCTAAAGACCTTGTTCAACTTCATAGTCCCTTTCCTTTTAAAGAGGAGAAGAGAAAAA
TCCCCCTGGCCAGGCATGGTGGCTCACATCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACCTA
AGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCTATCTCTACTGCAAAATACAAAAATTAGCCGG
GCTTGGTGGCGGGTGCCTGTAATCCCAGCTACTCGGGAGGTTGAGGCAGGAGAATCACTTGAACCCAGGAGGCAG
AGGTTGCAGTGGGCCAAGATTACGGCATTACATTCCATCCAGCCTGGGCGACAAGAGCAAAATTCCGTCTCGAAA
AATCACCAGGTACATACCTCTCAAGTTTGATAAGTCCATCTTTTGAGTTTTCTTTTAGCTCTTTCAAAAGATTAC
GAGGGCAATACATATTTTTTTTTTTTTTATTCTCCAGCCCCATATCATACTTGGGTATGCCTGTTGGTACCATAA
GCCTAAACTCTCCTTCACTGCAATGCCTTTGAGTCAGTAGCAATAGTAAAGACTAGAAACAAAGAAAATTCAGAA
TTTGGTATGTGATATGATTGTTTCATACAATATGTTATAATAGCAATATTCCAAACAATATGTCCTTCACTGTCTA
TTGTTGGAAAACATCATGCATCCCAGCATGAAGTAACTCCTAGTTTTAATTTTAGTTATTTTGGATATATTTGAG
AATTGCATCTCTTCTCTTGAATTTCACTTAGAAGAGATTAACCAGCCAAATATCCAGGAAAGTTTCAAAACATTC
TAGTGTTTTTTCATCCTTTGCTAGGATGCACTCTGTACAAAACATTCCCTCTGAAAATCTAATATTTGCAGTATCTA
AGAATTGATCATTCTATTTTCATTAAATTCTGTGGAAAAAATTAAATGAATGAAATTCAACTTCATAATTCAGT
TCATCAGCTTTTGTATCTTGAGAATCTAAACACGCTCTXXAAATCTGAAAGAAACCAAGCTGGATTTTGCAGTGCA
TATGTTTGCTAGCTTTCCACATCCTGAACCATGTCAAAATTTGGTTTTATTTAGTTACATATAATTTAATGCAA
GAAATTCGTGTTACTTAATGTTCTGTTTATTTATGAGTGCCTATCAGGAACACTAATAGGAATGCCATTCAACCAG
TGTCTTCTGCCCCCTCTCCAGCTGTTAAATTAGTACTTCTTCATTGGCTTTCTGAAATGTCCTGAGTAAAGTAGA
AAAGCAACCTTTGTATGGATGTGGGGATATTTAATAGTATGTATCTTGTTCATTTTTTTCCTATGATGTATTAA
TATTTATTTTTCTCCAACCCCTGCTCCATTTTCTTAAATATTTTCCAGTTAATAACTAGTTGCTTTTATTTCTTA
GCTGAAGTGAGAAAACCAACGGAAAACAATACAGATTTGGGCAGAGGAGATAGAGTTACATCTTTAAAGGAGTGA
GCCAGTCACCCAGGAGAATCACATGTGTAACCTGATGTAGGGGTTTAACTCTTCATACTTTCACTAAAATCTGTCT
ACTAATCTCCCACCAACCTTTGCATCAAACACTTAGGTACCTGCCTGATTAGGGGGGGCCCTTTAAGGGAAAAA
ACTTTTAAAAAATTAAATGCCTTGGTTTTGTTTTATCTTCTGGGAAAGAACACTTTTACTTGATTAGCAAGATGA
TTATATTATATAACTTGCCCTTAAAAACACTCCAAAATACTGACTCCTTTTCTCCAATTACAAATGAGTGTGAAG
AAATTCGTGTTGTATGATTTGAACACTATTAGGTTTGTATGTGTGTTAATTGGAAGAATTTTATATAGAGTATCT
CTGCTGCTTTTGTTTACCTGGGTACCACACAACCAAAATACACATTGAGATTTCAAGAAATGATGATGAAAGCCAG
AAGGCCAGACCACAGCTCTGCAGCCTGTTTCTTACAACAGATATAAACTCTTTCTCGTCGCCATGCTGATAGT
CACACTGAAGTAACTGTCCCAACACATTCTTCTCTCTCATAATGGCTTCCATTTAATACAGGCAAAGCCCTT
TACCTTAGCAAATCTTTATCTTTCAAAAGTGACCAAAATGAGGACTTCAACCTTGGCTGCACCTCAATAGGAGA
TGCTGATCTTGAGTTGTAATGAGAAAAGTGGGCATATAGGAGATTTTAGTGACTGCAGTCAGCTGTCTGGCATT
CTTTCTCAGTTTGCATCTAAAAGACTACATATGTCAAGCTTATCTCCACCTGAATTTGCTGCCTGCTATAAAAAAC
ATTTCAATTAATATATCCCATCTTCTTACCTCCATCTCTGGTTTGTCTATTAGTGGTATTCTGAAAAGCTTAAGAA
AAAAGAATCATTGAGTAGAAAGTGAACATTTTAAGTTATTTTCTTTTTCATTGGCAATTAGTTAACATGTAAAA
TCTTTTCCATTAAACTGTATAACTTTTAATAACTATATATTATATATGGGATAAAATATATGGACTGAATTGTGA
GAATATAAATGCATCGAAAGACTCTGGTGTCTGAAAGCACAAGAATAAGGCTGGAGATGGTCCCAGATCCAAGA
TGTCCCAAAGCCTTTTGTATCAGTTTCTCTATTTTTTGGTATTTTGCATAATGCATGGATCCTTAGTTCAAATGA
GGGACAAAGTTTCTCAGTCAGCCCCACTTCTTTTCTTCTAACTCCTACCTTTCCCTTGCAGAGGAGGTAGTAGA
GATTCTGGAATTGTCTATTTTTATGAATTCCATTATTTTGTCCATGGCATCTCTAATGAAAACAGGTTCTAGAAT
AAAGGAGTTGATTAGTCTGAACAGTACTAATTAACACAAAATAAACGTTAGTGATCAGCCTCTTCTCTATAAAA
CAATGACCAATTAGACGTTTCCGTAATTCATGTATTATGTATAGTACACTCTATAAATGTAAATGTAATGCTTG
TCTAAAAAGTGCAATTTATTGTACATTGTCCCAACAAATGTTTACTTTTATAATCGTTATGAACCTGAATTGGAT
TAGTATCTTGTTTTTATGTGTGAATGAAGCCTTGTGAAATAAACAAATGCAACTGAGAAGGTAACAAGGTGACTG
TTTTTGTGAGCCAGTGATGTTTTCAATGCTTTGTGTTGCCCTTTGGCCCCATTAAGCAGTAATAAACATTTGTT
CTGAAGTCC

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FIGURE 390

MEEGVPCPAPAAKLTPPVKKSQDMHDERSKLVNEYACRVLELLGMGHRLEFVPRL LATS KEDLLQADFE GALKFFR
VQLPKRYRAEENARRLMEQACNIKVP TKKLKKEYEKEYQTMRESQLQQEDPMDRYKRENRR LQEASMRLEQENDDL
AHELVT SKIALRNDLDQAEDKADVLNKELLLTKQRLVETEE EK RQEEETAQLKEVFRKQLEKA EYEI KKT TAI I
AEYKQICS QLSTRLEKQQAASKEELEVVGKMMACKHCSDIFSKEGALKLAATGREDQGIETDDEKDSLKKQLRE
MELELAQTKLQLVEAKCKIQELEHQRGALMNEIQAAKNSWFSKTLNSIKTATGTQPLQPAPVTQPPKEST

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FIGURE 391

GCGGCCGCGTGGCCAGGCAACCTATGGGTACCACCGGTTCTCGCGGGTCTTGCGAACGAACTTTTCTTGAAA
CTCTCTGGATTCTGTAAACAGTGGGGCTCAGCCCCCTCAATGACTGGAGGCTTCGATGGTTCAAAGGGGACCTCC
GGAATCACAGGGCCGGGAGTCGCCATGTCCGGGCCACAGCAGCAGGAGAAAATCGGGACTCCGACCTCAGCCTCC
CGGTGAAGGTCATGAAAGGGGCGGGGAAACGAATAAATTGAGCCTTGACGCAGGCGCAAATGCTCGTTGCATCC
TGGGAGTCGTAGTGCTCAGCACGGTAGTGCTACAAAAGGACTACATTTCCCCAAATGCCCGCAAAGCCTTGTCGA
CGCCTTCCGGAAGGAGTTTGTACACGAGGTCTGAGAGACAGAGGCAGCGTGTGAGCTGCTGGTGCGGTGGTC
AGCGCGATGCCCAAGGCCAAGGGCAAAACCCGAGGCAGAAAGTTTGGTTACAGTGTCAACCGAAAGCGTCTGAAC
CGGAATGCTCGACGGAAGGCAGCGCGCGGAATCGAATGCTCCACATCCGACATGCCTGGGACCACGCTAAATCG
GTACGGCAGAACCTGGCCGAGATGGGGTTGGCTGTGGACCCCAACAGGGCGGTGCCCTCCGTAAGAGAAAGGTG
AAGGCCATGGAGGTGGACATAGAGGAGAGGCCCTAAAGAGCTTGACGGAAGCCCTATGTGCTGAATGACCTGGAG
GCAGAAGCCAGCCTTCCAGAAAAGAAAGGAAATACTCTGTCTCGGGACCTCATTGACTATGTACGCTACATGGTA
GAGAACCACGGGGAGGACTATAAGGCCATGGCCCGTGATGAGAAGAATTACTATCAAGATACCCCAAAACAGATT
CGGAGTAAGATCAACGTCTATAAACGCTTTTACCCAGCAGAGTGGCAAGACTTCCTCGATTCTTTGCAGAAGAGG
AAGATGGAGGTGGAGTAACTGGTTTACATCACAGCTGCCCCAGGCTGAGGCGTCCCCCGGACCAGTGAAGCTGGA
GCCAGGGTGTAAGGCAAGGAGGTGCTGTGTGGCTCCAGAGGGGCTGGCCAGGTCCCATGGAATCAGAAGGTTACA
CACACACGTGCACACTCCCCGCTCTGGGGAAGGAAGTGTCTCAGAGGCTCCAATTTATATTCATCTGGGGGTTT
ACGGAAGCCAGAACCTGCTGTTTTCAGGGTGGGTGATGTAAATATAGTGTGTACATAATAAGCAAATATATT
TTAA

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FIGURE 392

MPKAKGKTRRQKFGYSVNRKRLNRNARRKAARGIECSHIRHAWDHAKSVRQNLAEMLAVDPNRAVPLRKRKVKA
MEVDIEERPKELVKPYVLNDLEAEASLPEKKGNTLSRDLIDYVRYMVENHGEDYKAMARDEKNYYQDTPKQIRS
KINVKRFYPAEWQDFLDSLQKRKMEVE

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FIGURE 393

GCGCCCGGGCCGCGGGCCGGGCGGGCCCTGGGGGCGGGGCGGGAAGACGGCGGGCCGGGAGTGTTCAGTTCCG
CCTCCAATCGCCCATTCCTCTCTCCCTCCCAGCCCCCTCCATCCCATCGGAAGAGGAAGGAACAAAAGGTCCC
GGACCCCCCGGATCTGACGGGGCGGGACCTGGCGCCACCTTGCGAGGTTGATACAAGAGGCTGTTCCTAGCGT
GGCTTGCTGCCTTTGGTAAGAACAATGTCGTCCATCTTGCCATTACGCCGCCAGTTGTGAAGAGACTGCTGGGAT
GGAAGAAGTCAGCTGGTGGGTCTGGAGGAGCAGGCGGAGGAGAGCAGAATGGGCAGGAAGAAAAGTGGTGTGAGA
AAGCAGTGAAAAGTCTGGTGAAGAAGCTAAAGAAAACAGGACGATTAGATGAGCTTGAGAAAAGCCATCACCCTC
AAAAGTGAATACTAAATGTGTTACCATACCAAGCACTTGCTCTGAAATTTGGGGACTGAGTACACCAATACGA
TAGATCAGTGGGATACAACAGGCCTTTACAGCTTCTCTGAACAAACCAGGTCTCTTGATGGTCTCTCCAGGTAT
CCCATCGAAAAGGATTGCCACATGTTATATATTGCCGATTATGGCGCTGGCCTGATCTTCACAGTCATCATGAAC
TCAAGGCAATTGAAAAGTGCGAATATGCTTTTAACTTAAAGGATGAAGTATGTGTAAACCTTACCCTATC
AGAGAGTTGAGACACCAGTTTTGCCCTCAGTATTAGTGCCCCGACACACCGAGATCCTAACAGAACTTCCGCCTC
TGGATGACTATACTCACTCCATTCCAGAAAACACTAACTTCCCAGCAGGAATTGAGCCACAGAGTAATTATATTC
CAGAAACGCCACCTCCTGGATATATCAGTGAAGATGGAGAAACAAGTGACCAACAGTTGAATCAAAGTATGGACA
CAGGCTCTCCAGCAGAACTATCTCTACTACTCTTCCCTGTAAATCATAGCTTGGATTACAGCCAGTTACTT
ACTCAGAACCTGCATTTTGGTGTTCGATAGCATATTATGAATTAATCAGAGGGTTGGAGAAACCTTCCATGCAT
CACAGCCCTCACTCACTGTAGATGGCTTTACAGACCCATCAAATTCAGAGAGGTTCTGCTTAGGTTACTCTCCA
ATGTTAACCGAAATGCCACGGTAGAAATGACAAGAAGGCATATAGGAAGAGGAGTGGCCTTATACTACATAGGTG
GGGAAGTTTTTGCTGAGTGCCTAAGTGATAGTGCAATCTTTGTGCAGAGCCCCAATTGTAATCAGAGATATGGCT
GGCACCTGCAACAGTGTGTAAAATCCACCAGGCTGTAATCTGAAGATCTTCAACAACCAGGAATTTGCTGCTC
TTCTGGCTCAGTCTGTAAATCAGGGTTTTGAAGCCGTCTATCAGCTAACTAGAATGTGCACCATAAGAATGAGTT
TTGTGAAAGGGTGGGGAGCAGAATACCGAAGGCAGACGGTAACAAGTACTCCTTGCTGGATTGAACTTCATCTGA
ATGGACCTCTACAGTGGTTGGACAAAGTATTAATCAGATGGGATCCCCTTCAGTGGCTTGCTCAAGCATGTCAT
AAAGCTTCACCAATCAAGTCCCATGAAAAGACTTAATGTAACAACCTCTTCTGTCATAGCATTGTGTGTGGTCCCT
ATGGACTGTTTACTATCCAAAAGTTCAAGAGAGAAAACAGCACTTGAGGTCTCATCAATTAAAGCACCTTGTGGA
ATCTGTTTCCTATATTTGAATATTAGATGGGAAAATTAGTGTCTAGAAATACTCTCCCATTAAGAGGAAGAGAA
GATTTTAAAGACTTAATGATGTCTTATTGGGCATAAACTGAGTGTCCCAAAGGTTTATTAATAACAGTAGTAGT
TATGTGTACAGGTAATGTATCATGATCCAGTATCACAGTATTGTGCTGTTTATATACATTTTTAGTTTGCATAGA
TGAGGTGTGTGTGTCGCTGCTTCTTGATCTAGGCAAACCTTTATAAAGTTGCAGTACCTAATCTGTTATTCCCA
CTTCTCTGTTATTTTTGTGTGCTTTTTTTAATATATAATATATATCAAGATTTTCAAATTTATTTAGAAGCAGATT
TTCTGTAGAAAACTAATTTTTCTGCCTTTTACCAAAAATAAACTCTTGGGGGAAGAAAAA

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FIGURE 394

MSSILPFTPPVVKRLLGWKKSAGGSGGAGGGGEQNGQEEKWCEKAVKSLVKKLKKTGRLDELEKAITTQNCNTKCV
TIPSTCSEIWGLSTPNTIDQWDTTGLYSFSEQTRSLDGRLOVSHRKGLPHVIYCRLWRWPDLSHSHHELKAIENCE
YAFNLKKDEVCVNPYHYQRVETPVLPPVLVPRHTEILTELPLDDYTHSIPENTNFPAGIEPQSNIYPETPPPGY
ISEDGETSDQQLNQSMGTGSPAELSPTTLSPVNHSLDLQPVTYSEPAFWCSIAYYELNQRVGETFHASQPSLTVD
GFTDPSNSERFCLGLLSNVNRNATVEMTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPATVCK
IPPGCNLKIFNNQEFAALLAQSVNQGFVAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGPLQWLD
KVLTMGSPSVRCSSMS

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FIGURE 395A

GGTCTCGATCTCCTGACCTTGTGATCCACCTCCTCGGCCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACGGC
ACCCAGCCTCATTGCTGTAACTCATTATTGAGTCACCTTTTTCTTCCTCACACTTTTGTAGTCTTAGAATTT
TTGTGTGTTTTTATTACCCTAACCTGTCAATTTTCATAGTTTCCACTTTCTTGTTGAAGTTTCCAACTTGACCT
CATGCCTTTGAATATACTAATTCATTGCTTTGACACATTTTTTCCCGAAAAAGGTGTAAATGGGTCAATAAAT
GGAAGTAATACATCATCTGTAATTGGTATCAACACATCTGTACTATCCACTACTGCTTCAAGTTCCATGGGACAA
ACTAAAAGTACAAGCTCAGGTGGAGGAAATCGAAAATGTAATCAGGAACAAAGCAAAAACCAGCCTTTGGATGCT
AGAGTTGACAAAATCAAAGATAAGAAACCAAGGAAGAAAGCAATGGAAAGTTCTAGCAACAGTGATAGTGATTCA
GGCACATCATCAGACACCTCAAGTGAAGGCATTAGTAGCAGTGATTAGATGATCTAGAAGAAGATGAAGAAGAA
GAAGATCAAAGTATTGAAGAAAGTGAAGATGATGATTCTGATTAGAGAGTGAAGCACAAACATAAAAGTAACAAC
CAGGTGCTATTACATGGTATTTAGACCCAAAAGCAGATGGACAGAAAGCAACTGAAAAAGCCCAGGAAAAAAGA
ATACACCAGCCATTACCTCTTGCGTTTGAATCCAGACTCACTCATTCCAATCCAGCAGAAGCAGCCTCAGGTT
TTGTACAGCAGCTTCCATTTATTTCCAAAGCTCTCAGGCAAAGGAGGAATCTGTGAACAAACACACCAGTGTA
ATACAGTCTACGGGATTGGTGTCCAATGTGAAACCTTTATCTTTGGTAAATCAAGCCAAAAGGAACTTACATG
AACTCATAGTTCTTCTCCTGATGTTCTTAAAGCAGGGAATAAAAAATACCTCTGAAGAATCTAGTTTATTGACC
AGTGAATTGAGATCCAAACGGGAACAATATAAACAGGCATTCCCATCACAGTTAAAGAAACAAGAGTCATCGAAG
AGCCTGAAGAAGGTTATTGCAGCTTTGTCAAATCCAAAAGCAACCTCTAGTTCACCAGCACATCCAAAACAAACA
TTAGAAAACAACCAACCCAAATCCATTCTTGACAAATGCATTTTAGGTAATCACCAACCAATGGAGTTATTCAA
AGTGTCATTCAAGAAGCTCCTCTAGCACTTACTACCAAACTAAAATGCAGAGCAAGATTAATGAAAACATTGCT
GCTGCAAGTAGCACCCCTTTTTCTCACCTGTAAATCTGAGTACAAGTGGGAGAAGAACCCTGGCAATCAGACA
CCTGTAATGCCTTCTGCCTCTCCCATCCTGCATAGTCAAGGGAAGGAAAAAGCAGTTAGCAATAATGTAAACCCA
GTAAAAACACAGCATCACTCCCATCCTGCAAAATCTTTAGTGGAACAATTCAGAGGAACAGATTAGACATTCCC
AGTAGTAAAGATTCTGAAGATTCAAATGAGGATGAAGAGGAAGATGATGAAGAAGAAGATGAGGAAGATGATGAA
GATGATGAATCTGATGACAGCCAATCAGAATCAGATAGTAATTCAGAATCAGATACAGAAGGATCAGAAGAAGAA
GATGATGATGATAAAGACCAAGATGAATCAGATAGTGATACTGAAGGAGAGAAAACTTCAATGAACTGAATAAA
ACAACCTCCTCTGTCAAAGCCCTTCCATGAGTCTCACAGGTCACCAACACCTCGTAACCTCCACATAGCAAAA
GCCCCAGGCTCTGCTCCTGCTGCCTTATGTTCTGAATCCAGTCACCTGCTTTTCTTGGTACATCTTCTTCCACA
CTTACTTCAAGCCCACTCTGGCACTTCCAAAAGAAGAAGAGTAACAGATGAACGTGAACGTGCGTATTCCATTG
GAATATGGCTGGCAGAGAGAGACAAGAATAAGAACTTTGGAGGGCGCCTTCAAGGAGAAGTAGCATATTATGCT
CCATGTGGAAAGAACTTAGGCAGTACCCTGAAGTAATAAAGTATCTCAGCAGAAATGGAATAATGGATATCTCA
AGGGACAATTTAGCTTCAGTGCAAAAATAAGAGTGGGTGACTTCTATGAAGCCAGAGATGGACCGCAGGAAATG
CAGTGGTGTCTTTTGAAGAAGAGGATGTCATTCTCGTATCAGGGCAATGGAAGTCTGATAGGAAGACCACCA
AATCCAGATAGACAACGAGCAAGAGAGGAATCCAGGATGAGACGTCGGAAGGTCGACCTCCAAATGTTGGCAAT
GCTGAATTCCTAGATAACGCAGATGCAAAGTTGCTAAGAAAACGCAAGCTCAAGAAATAGCCAGGCAAGCAGCA
CAAATAAAGCTTTTGAGAAAACCTCAAAGCAGGAACAGGCTCGGGTTGCTAAAGAAGCCAAAAACAACAAGCA
ATAATGGCTGCTGAGGAGAAGCGGAAGCAAAAAGAACAGATAAAGATTATGAAACAGCAGGAAAAAATTAAGAGA
ATACAGCAAAATCAGAATGGAAAAAGAACCTTCAGAGCTCAGCAAAATCTAGAGGCTAAAAAGAAAAAGAAGGAAGAA
GCGGCAAAATGCCAAATTATTGGAGGCCGAGAAACGAATAAAGGAAAAAGAAATGAGAAGACAACAAGCTGTTCTT
CTGAAACATCAGGAACGAGAGCGAAGGCGACAACACATGATGCTTATGAAAGCTATGGAAGCTCGTAAAAAAGCA
GAAGAAAAAGAGCGGTTGAAACAAGAAAAACGTGATGAGAAAAAGATTAAATAAAGAGCGTAACTAGAGCAGCGA
AGATTAGAATTAGAAATGGCAAAGGAACATAAGAAAGCCTAATGAAGACATGTGCTTAGCAGACCAAAAGCCTTTG
CCAGAGTTGCCTCGTATTCCAGGACTTGTTCTCTCTGGAAGTACATTTTCAGACTGTCTCATGGTGGTGCAGTTC
TTACGAAACCTTTGGTAAAGTTTTGGGCTTTGATGTGAATATTGATGTTCCAAACCTGAGTGTTCTTCAAGAGGGA
TTGCTAAATATAGGGGACAGCATGGGTGAAGTACAAGACTTGCTTGTGAGGCTCCTCTCAGCTGCTGTATGTGAT
CCAGGTCTAATAACAGGATACAAGGCTAAAACAGCTCTTGAGAGAACATTTGCTGAATGTTGGTGTGAATCGAGAC
AATGTTTCCGAGATTTTACAGATATTTATGGAAGCCCACTGTGGACAACTGAGCTTACTGAAAGTCTGAAGACC
AAAGCTTTTTCAGGCTCACACTCCAGCACAGAAAGCTTCAGTCCTGGCTTTTCTGATCAATGAACTGGCATGCAGC
AAGAGTGTGGTCAGTGAATCGACAAGAACATTGATTATATGTCAAACCTTGAGGAGAGATAAATGGGTGGTAGAA
GGTAACTCCGCAAGCTCAGAATCATTATGCTAAGAAAACAGGCAAAAGAGACACTTCAGGTGGCATTGATCTG

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FIGURE 395B

GGAGAAGAGCAGCATCCCTTGGGCACACCCACTCCAGGACGCAAGCGAAGAAGGAAGGGAGGAGACAGTGATTAT
GACGATGATGATGACGATGACAGTGATGACCAAGGGGATGAAGATGATGAGGATGAAGAAGATAAGGAAGACCAA
AAAGGAAAAAAGACTGATATCTGTGAAGATGAGGATGAAGGTGACCAAGCAGCAAGTGTTGAAGAGCTGGAAAAA
CAGATTGAAAACTGAGTAAACAACAGAGTCAGTACAGAAGGAAGCTCTTTGATGCGTCTCACTCATTGCGTTCA
GTGATGTTTGGCCAGATCGTTACAGACGCCGGTACTGGATTCTTCCCCGATGTGGGGGGATTTTTGTAGAAGGC
ATGGAGAGTGGTGAAGGACTAGAAGAAATTGCAAAAGAAAGAGAAAACTGAAAAGGCAGAAAGTGTCAGATC
AAAGAAGAAATGTTTGAGACTTCTGGGGACAGTTTAAATTGTTCAAATACAGATCACTGTGAACAAAAGGAAGAT
CTTAAAGAAAAAGATAACACAAATCTATTCCTTCAGAAACCTGGCTCTTTTTCCAAATTAAGCAAGCTTTTGAA
GTAGCTAAGATGCCTCCTGAGTCAGAGGTTATGACCCCCAAACCAATGCTGGTGCAAATGGGTGCACGTTGTCT
TATCAGAACAGTGGAACATTCAGTGGGCAGCGTTCAGTCAACAGCAACGCAAGCAATGTGGAAGGCAGAC
TCTAATAATCTGTTTAACTGGTTCAAGTGGTCCAGGGAAGTTCTACAGTCTCTCCCCAATGACCAGTTACTA
AAAACGCTGACTGAAAAGAATAGACAATGGTTTAGTCTTTTGCCACGAACACCCTGTGATGACACTTCACTTACT
CATGCCGATATGTCAACTGCTTCTTTGGTGACTCCTCAGTCTCAGCCACCATCTAAGTCACCTTCACCTACCCCA
GCTCCTCTTGATCTTCTGCTCAGAATCCTGTTGGCTTAAATCCATTTGCTTTATCACCTCTTCAGGTGAAAGGT
GGAGTATCTATGATGGGACTTCAGTTTTGTGGATGGCCCACTGGTGTGGTTACTTCTAATATTCCATTTACATTA
TCTGTACCTAGTCTAGGATCGGGGTTAGGGTTATCAGAAGGAAATGGTAATTCATTCTTGACTTCCAATGTTGCT
TCAAGTAAAAGTGAATCTCCAGTACCACAGAATGAAAAGGCCACTTCAGCTCAACCTGCAGCTGTTGAAGTAGCA
AAACCAGTAGATTTTCTAGTCCAAAACCTATTCCAGAAGAAATGCAGTTTGGTTGGTGAGAAATTATTGACCCA
GAGGACCTAAAAGCTTTGCTCAAAGTGCTGCATCTCAGAGGAATAAGAGAAAAGGCATTACAAAAACAAATTCAG
AAACATTTGGATTATATTACTCAAGCCTGCCTCAAGAATAAGGATGTTGCTATTATTGAACTGAATGAAAATGAA
GAAAACCAAGTAAGTCTGAGATATTGTGGAGAAGTGGTCAGTAGAAGAACAAGCAATGGAAATGGATTTGAGTGTC
CTTCAACAGGTAGAAGATCTAGAAAGGAGAGTTGCATCCGCAAGTTTGCAAGTGAAGGGTTGGATGTGTCCAGAG
CCTGCATCAGAAAGGGAGGACTTGGTATATTTTGAACATAAAATCATTTACTAAATTTGTGCAAGGAGCATGATGGA
GAATTTACTGGCGAAGACGAAAGCAGTGACATGCACTAGAACGGAAGAGTGACAACCCCCCTAGATATAGCTGTT
ACCAGGCTGGCTGATTTGGAGCGGAACATTGAAAGAAGAATTGAGGAAGATATTGCTCCAGGGCTCAGGGTGTGG
AGAAGGGCATTATCAGAAGCTCGCAGTGCTGCACAGGTAGCTCTGTGCATTACAGCAATTACAGAAATCAATAGCA
TGGGAAAAATCAATTATGAAAGTTTACTGCCAAATCTGTGCAAGGGGAGATAATGAAGAACTGCTTCTTCTTGT
GATGGCTGTGACAAAGGCTGTACATCTACTGCCATAGACCCAAGATTACAACAATCCCAGATGGAGACTGGTTT
TGTCCAGCTTGCAATGCTAAGGCAAGTGGTCAAACCTCTAAAAATCAAAAACTTCATGTCAAAGGAAAAAGACT
AATGAGTCTAAGAAAGGCAAGAAGGTAACTTTAAACAGGAGATACTGAAGATGAAGACTCTGCATCTACAAGTAGT
TCACTAAAAAGAGGAAACAAAGACCTCCAGAAAAGAAAAATGGAGGAAAACACTTCTATTAACCTGTCAAACAA
GAAAGTTTACTTCAGTTAAGAAACCTAAAAGAGATGACTCCAAGGACCTAGCTCTTGCAGTATGATTCTGACT
GAAATGGAACTCATGAGGATGCATGGCCTTTTCTACTTCTGTAACTTGAACTTGTTCTGGTTATAAGAAA
GTTATTAAGAAGCCTATGGATTTTTCCACAATTAGAGAGAACTAAGTAGTGGACAGTATCCAAACCTTGAAACC
TTTGCTCTAGATGTCAGGCTTGTTTTTGACAACTGTGAAACATTTAATGAAGATGATTCTGATATAGGCAGAGCT
GGCCACAATATGAGGAAGTATTTTGAAAAAAGTGGACAGATACTTCAAAGTGAGCTGAAGTTATAATAATCTC
TTTATTTTTTCTCTTCTAAACAAGGACAAATGAGACCAGCAATGTGAACTGTATTACATAAACGTGCAAGGCAC
ATACATAATGACTTTCTTTTTCTTAAAGTATAAAAAAAGTATCAGAAGATGATACCATTTTTAAAGGCTTCA
TTCTTACAACAACCAAGGCCCTCGGTTATTGGTTTGTGTGATTTATCAGCTAATTTAGGTAGAACAGGGAAGCAC
ACCCAAAGAATTTTCAAAGGAAAGGGTGTATAGTGCAATAGCAATTAATAATATCAAATCGCACTGAATACTC
AACACCAGAGCTCTAATGTGGGAAATGGTTCTCCTTTCCCTCTCAATAAATATCTATTTTTCATTTTTTACTTT
GTAGTTTATTTTTTAGTGAATGTATTTAATTTTATGAATTATTTATGATTAAACCACATCCAGAATCTTCGTTTT
CTGTGAAAAGGAAGAACTAGAAAATTGCTTTAAATCTTGAAAAATACAAGGAATGTTTTAAATATAAAACAAAGC
CAAGTTAACTGTTTACACTGATGTGCTATAAAAGCACCAAAAAAGAACTTTACTGTAGAGTTACAAGTACATTT
ATATATATATGTTGCTGCATCACTTGTGTAGTTAAATTGTATTTCAAACAGTGAAAAAATTGACATGTATATAC
TGTTCACTCTTGTTTATATTAAGTCTTGTTTTAAATATGTATTATGTGTATATATTGTTTGACAGACATTATTGTT
CATGCCTTAGAGGATTGTAGCATTTTATTTTCGTCTGAAGGTAATGATAGCTATACAGTCTGTACAGTAATTATC
CTCTACCAACACTGTGGCGTCTCCTTAATCTTGGTAGTGCCTGCCTTTGAAACAGGGTGTAGGGGATATTAGTTT

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FIGURE 395C

TCCATTTTTCTATTTTGTTATATAATTTTAAGCCACCAGGGCCTAAATTAAAGTATAATCATTGTATCCATGTG
GAATAAAATTGTGACAATTCCTACGCACACAGTATTTTTTCATAGAAACATTCCCTCCCATTGCGTTGCCTC
AGAAATAAATTTAAAAGACGTTTGTAACCACTGTGTTTTATCTACTGTGTGTTGTGGTGGCCTGTTGGAGGCAAA
TAGATCAGATTTTTTTTTGTACCTACGTAAGAGTACTTGAAGTTTTATTAAAATAAAATGTTGTGGAAAAGGTAG
CATTCTTTTTTTAGGAGTGTTATTTTCACTATGTGTGGCACGGATACAATAAAAGACTTTTACAAACTAAAAA
AAAAAAAAA

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FIGURE 396

MGQTKSTSSGGGNRKCNEQSKNQPLDARVDKIKDKKPRKKAMESSSNSDSDSGTSSDTSSEGISSSDSDDDLEED
KEEEDQSIEESEDSDSESEAQHKSNNQVLLHGISDPKADGQKATEKAQEKRIHQPLPLAFESQTHSFQSQQKQ
PQVLSQQLPFIQSSQAKEESVKNHTSVIQSTGLVSNVKPLSLVNQAKKETYMKLIVSPDVLKAGNKNTSEESS
INTSELRSKREQYKQAFPSQLKKQESSKSLKKVIAALSNPKATSSSPAHPKQTLNHNPNPFLTNALLGNHQPNG
VVIQEAPLALTTKTKMQSKINENIAAASSTPFSSPVNLSTSGRRTPGNQTPVMPSPASPILHSQGEKAVSNN
KIQHSHHPAKSLVEQFRGTDSDIPSSKSEDSNEDEEEDDEEEDDEEEDDESDDSQSESDSNSESDTEGS
ODDKDQDESDSDTEGEKTSMKLNKTTSSVKSPSMSLTGHSTPRNLHIAKAPGSAPAALCSESQSPAFLGTS
STLTSSPHSGTSKRRRVTDERELRIPLEYGWQRETRIRNFGGRLOGEVAYYAPCGKKLRQYPEVIKYLNRNGIM
PDNFSFSAKIRVGDFYEARDGPQEMQWCLLKEEDVIPRIRAMEGRRGRPPNPDQRAREESRMRRRKGRPPN
EFLDNADAKLLRKLQAEIARQAQIKLLRKLQKQEQARVAKEAKKQQAIAAAEKKRQKEQIKIMKQKEK
QIRMEKELRAQQILEAKKKKKEEAANAKLLEAEKRIKEKEMRRQQAVALLKHQERERRRQHMLMKAMEAR
EKERLQKEKRDEKRLNKERKLEQRRLELEMAKELKKPNEDMCLADQKPLPELPRIPGLVLSGSTFSDCLMV
LRNFGKVLGFDVNIDVPNLSVLQEGLLNIGDSMGEVQDLLVRLLSAAVCDPGLITGYKAKTALGEHLLNVGV
DNVSEILQIFMEAHCGQTELTESLTKAFQAHTPAQKASVLAFLINELACSKSVSEIDKNIDYMSNLRRDKW
WEGKLRKLRIIHAKKTGKRDTSGGIDLGEEQHPLGTPTPGRKRRRKGGSDYDDDDDDSDDQGEDDEDEEDK
EDQKGKKTIDICEDEDEGDQAASVEELEKQIEKLSKQSQYRRKLFDAHSLSRSMFGPDYRRRYWILPRCGGIF
VEGMESGEGLEEIAKEREKLKKAESVQIKEEMFETSGDSLNCSTNDHCEQKEDLKEKDNTNLFLOKPGSFSKLSK
LLEVAKMPPESEVMTPKPNAGANGCTLSYQNSGKHSLSGSVQSTATQSNVEKADSNNLNTGSSGPGKFYSPLPND
QLLKITLTKNRQWFSLLPRTPCDDTSLTHADMSTASLVTPQSQPPSKSPSPTPAPLGSSAQNPVGLNPFALSPLQ
VKGGSMMGLQFCGWPTGVVTSNIPFTLSVPSLGSGLGLSEGNGNSFLTNSNVASSKSESPVPQNEKATSAQPAAV
EVAKPVDFPSPKPIPEEMQFGWWRIIDPEDLKALLKVLHLRGIREKALQKQIQKHLDYITQACLKNKDVAIIELN
EENEQVTRDIVENWSVEEQAMEMDLSVLQQVEDLERRVASASLQVKGWMCPEPASEREDLVYFEHKSFTKLCKE
HDGEFTGEDESSAHALERKSDNPLDIAVTRLADLERNIERRIEEDIAPGLRVWRRALSEARSAAQVALCIIQQLQK
SIAWEKSIMKVYCQICRKGDNELLLLCDGCDKGCHTYCHRPKITTIPTGDWFCPACIAKASGQTLKIKKLHVKG
KKTNESKKGKVTLTGDTEDSASTSSSLKRGKNDLQKRKMEENTSINLSKQESFTSVKKPKRDDS KDIALCSM
ILTEMETHEDAWPFLLPVNLKLVPGYKKVIKKPMDFTIREKLSSGQYPNLETFALDVRLVDFNCETFNEDDSDI
GRAGHNMRKYFEKKWTDTFKVS

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FIGURE 397

GGCCGAATACATCAAGCAATGGTAACATCTTTAAATGAAGATAATGAAAGTGTAAGTGTGAATGGATAGAAAAT
GGAGATACAAAAGGCAAAGAGATTGACCTGGAGAGCATCTTTTCACTTAACCCTGACCTTGTTTCTGATGAAGAA
ATTGAACCCAGTCCAGAAACACCTCCACCTCCAGCATCCTCAGCCAAAGTAAACAAAATTGTAAAGAATCGACGG
ACTGTAGCTTCTATTAAGAATGACCCTCCTTCAAGAGATAATAGAGTGTTTGGTTTTCAGCACGTGCACGGCCCCAGT
CAATTTCTGTAACAGTCTTCTCTGCACAACAGAATGGTAGTGTTTCAGATATATCTCCAGTTCAAGCTGCAAAA
AAGGAATTTGGACCCCTTTCAGTAGAAAAATCTAATTGTGTGAAAGAAGTAGAAAACTGCAAGAAAAACGAGAG
AAAAGGAGATTGCAACAGCAAGAACTTAGAGAAAAAGAGCCCAGGACGTTGATGCTACAAACCCAAATTATGAA
ATTATGTGTATGATCAGAGACTTTAGAGGAAGTTTGGATTATAGACCATTAAACAACAGCAGATCCTATTGATGAA
CATAGGATATGTGTGTGTGTAAGAAAAACGACCACTCAATAAAAAAGAACTCAAATGAAAGATCTTGATGTAATC
ACAATTCCTAGTAAAGATGTTGTGATGGTACATGAACCAAAACAAAAAGTAGATTTAACAAGGTACCTAGAAAAAC
CAAACATTTCTGTTTGTATTATGCCTTTGATGACTCAGCTCCTAATGAAATGGTTTACAGGTTTACTGCTAAACCA
CTAGTGGAACTATATTTGAAAGGGGAATGGCTACATGCTTTGCTTATGGGCAGACTGGAAGTGGAAAACTCAT
ACTATGGGTGGTGACTTTTTCAGGAAAGAACCAAGATTGTTCTAAAGGAATTTATGCATTAGCAGCTCGAGATGTC
TTTTTAATGCTAAAGAAGCCAAACTATAAGAAGCTAGAAGTTCAAGTATATGCAACCTTCTTTGAAATTTATAGT
GGAAAGGTGTTTGAAGTGTCTAAACAGGAAAAACAAATTAAGAGTTCTAGAAGATGGAAAAACAGCAGGTTCAAGTG
GTGGGATTACAGGAACGGGAGGTCAAATGTGTTGAAGATGTACTGAAACTCATTGACATAGGCAACAGTTGCAGA
ACATCCGGTCAAACATCTGCAATGCACATTCTCTCGGAGCCATGCAGTGTTTCAGATTATTCTTAGAAGGAAA
GGAAACTACATGGCAAATTTTCTCTCATTGATTTGGCTGGAAATGAAAGAGGAGCTGATACTTCCAGTGCGGAC
AGGCAAACCTAGGCTTGAAGGTGCTGAAATTAATAAAAGCCTTTTAGCACTCAAGGAGTGATCAGAGCCTTAGGT
AGAAATAAACCTCATACTCCTTTCCGTGCAAGTAACTCACTCAGGTGTTAAGAGATTCTTTTCATAGGTGAAAAC
TCTCGTACCTGCATGATTGCCACAATCTCTCCAGGAATGGCATCCTGTGAAAATACTCTTAATACATTAAAGATAT
GCAATAGGGTCAAAGAATTGACTGTAGATCCAAGTCTGCTGGTGATGTTTCCGTCCAATAATGCACCATCCACCA
AACCAGATTGATGACTTAGAGACACAGTGGGGTGTGGGGAGTTCCCCTCAGAGAGATGATCTAAAACTTCTTTGT
GAACAAAATGAAGAAGAAGTCTCTCCACAGTTGTTTACTTTCCACGAAGCTGTTTCACAAATGGTAGAAATGGAA
GAACAAGTTGTAGAAGATCACAGGGCAGTGTTCCAGGAATCTATTCCGTGGTTAGAAGATGAAAAGGCCCTCTTA
GAGATGACTGAAGAAGTAGATTATGATGTCGATTCTATGCTACACAACCTTGAAGCTATTCTTGAGCAAAAAATA
GACATTTTAACTGAAGTGCAGGATAAAGTGAATCTTTCCGTGCAGCTCTACAAGAGGAGGAACAAGCCAGCAAG
CAAATCAACCCGAAGAGACCCCGTGCCCTTTTAAACCGGCATTTGCTGCTAAAGGATACCCAGAACCCTCACTACT
GTAACATAACAACGGTTTCAAGTGTAAAGGGCATTGAAAGTTTGAATTTTAAAGTGTCTGTGGAAAATGTTTTGTC
CTTCACCTGAATTACATTTCAATTTTGTGAAACACTCTTTTGTCTACAAAATGCTTCTAGTCCAGGAGGCACAAC
CAAGAACTGGGATTAATGAAGCATTTTGTTCATTTACACAAATAGTGATTTACTTTTGGAGATCCTTGTCAGTT
TTATTTTCTATTTGATGAAGTAAGACTGTGGACTCAATCCAGAGCCAGATAGTAGGGGAAGCCACAGCATTTCTT
TTTAACTCAGTTCAATTTTGTAGTGAGACTGAGCAGTTTAAATCCTTTGCGTGATGCATACCTCATCAGTGA
TTGTACATACCTTGCCCACTCCTAGAGACAGCTGTGCTCACTTTTCTGCTTTGTGCTTGATTAAGGCTACTGA
CCCTAAATTTCTGAAGCACAGCCAAGAAAAATTACATTCCTTGTCATTGTAAATTACCTTTGTGTGTACATTTT
ACTGTATTTGAGACATTTTGTGTGTGACTAGTTAATTTTGAGGATGTGCCATATCATTGAACGGAACATAAG
TCTGTGACAGTGGATATAGCTGCTGGACCATTCCAATCTTATATGTAAAGAAATCTGGAATTATTATTTTAAACC
ATATAACATGTGATTATAATTTTCTTAGCATTTTCTTTGTAAAGAACTACAATATAAACTAGTTGGTGTATAAT
AAAAAGTAATGAAATTCTGAAGAAAAA

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FIGURE 398

MVTSLNEDNESVTVEWIEINGDTKGKEIDLESIFS LNPDLPDEEIEPSPETPPPPASSAKVNKIVKNRRTVASIK
NDPPSRDNRVVG SARARPSQFPEQSSSAQQNGSVSDISPVQAAKKEFGPPSRRKSNCVKEVEKLQEKREKRRLQQ
QELREKRAQDV DATNP NYEIMCMIRDFRGS LDYRPLTTADPIDEHRICVCVRKRPLNKKETQMKDLDVITIPSKD
VVMVHEPKQKV DLTRYLENQTFRFDYAFDD SAPNEMVYRFTAKPLVETIFERGMATCFAYGQTGSGKTHTMGGDF
SGKNQDCSKGIYALAARDVFLMLKKPNYKKLELQVYATFFEIYSGKVFDLLNRKTKLRVLEDGKQQVQVVG LQER
EVKCVEDVLKLIDIGNSCRTSGQTSANAHSSRSHAVFQIILRRKGKLHGKFS LIDLAGNERGADTSSADRQTRLE
GAEINKSLLALKECIRALGRNKPHTPFRASKLTQVLRDSFIGENSRTCMIATISPGMASCENTLNTLRYANRVKE
LTVDP TAAGDVRPIMHHPPNQIDDLETQWGVGSSPQRDDLKLLCEQN EEEVSPQLFTFHEAVSQMVEMEEQVVED
HRAVFQESIRWLEDEKALLEMTEEVDYDVDSYATQLEAILEQKIDILTEL RDKVKSFR AALQEEEEQASKQINPKR
PRAL

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FIGURE 399

GCGGCAGCGGCTCTTATAGTGCAACCATGGCAGACTATTCAACAGTGCCTCCCCCTCTTCTGGCTCAGCTGGTG
GCGGTGGTGGCGGGCGGTGGTGGTGGAGGAGTTAACGACGCTTTCAAAGATGCACTGCAGAGAGCCCCGGCAGATTG
CAGCAAAAATTGGAGGTGATGCAGGGACATCACTGAATTCAAATGACTATGGTTATGGGGGACAAAAAAGACCTT
TAGAAGATGGAGATCAACCAGATGCTAAGAAAGTTGCTCCTCAAATGACTCTTTTGAACACAGTTACCACCGA
TGCATCAGCAGCAAGCAGATCTGTAATGACAGAAGAATACAAAGTTCCAGATGGAATGGTTGGATTGATAATTG
GCAGAGGAGGTGAACAGATCTCACGCATACAACAGGAATCTGGATGCAAAATACAGATAGCTCCTGACAGTGGTG
GCCTTCCAGAAAGGTCTGTATGTTAACTGGAACACCTGAATCTGTCCAGTCAGCAAAACGGTTACTGGACCAGA
TTGTTGAAAAAGGAAGACCAGCTCCTGGCTTCCATCATGGCGATGGACCGGAAATGCAGTTCAAGAAATCATGA
TTCCAGCTAGCAAGGCAGGATTAGTCATTGGAAGAGGGGAGAACTATTAAACAGCTTCAGGAACGGGCTGGAG
TTAAATGGTTATGATTCAAGACGGGCCGAGAACACTGGTGTGACAAACCTCTTAGGATTACAGGAGACCCAT
ATAAAGTTCAACAAGCCAAGGAAATGGTGTAGAGTTAATTCGTGATCAAGGCGGTTTCAGAGAAGTTCGGAATG
AGTATGGGTCAAGAATAGGAGGAAATGAAGGGATAGATGTCCCCATTCCAAGATTTGCTGTTGGCATTGTAATAG
GAAGAAATGGAGAGATGATCAAAAAATACAAATGATGCTGGTGTTCGCATTAGTTTAAAGCCAGATGATGGGA
CAACACCCGAAAGGATAGCACAAATAACAGGACCTCCAGACCGATGTCAACATGCTGCAGAAATTATTACAGACC
TTCTTCGAAGTGTTTACGGCTGGTAATCCTGGTGGACCTGGACCTGGTGGTTCGAGGAAGAGGTAGAGGTCAAGGCA
ACTGGAACATGGGACCACCTGGTGGACTACAGGAATTTAATTTTATTGTGCCAACTGGGAAAACTGGATTAATAA
TAGGAAAAGGAGGTGAAACCATAAAAAAGCATAAGCCAGCAGTCTGGTGAAGAATAGAACTTCAGAGAAATCCTC
CACCAATGCAGATCCTAATATGAAGTTATTTACAATTCGTGGCACTCCACAACAGATAGACTATGCTCGGCAAC
TCATAGAAGAAAAGATTGGTGGCCCCAGTAAATCCTTTAGGGCCACCTGTACCCCATGGGCCCCATGGTGTCCCAG
GCCCCCATGGACCTCCTGGGCCTCCAGGGCCTGGAACCTCCAATGGGACCATAACAACCTGCACCTTATAATCCTG
GACCACCAGGCCCCGGCTCCTCATGGTCCCTCCAGCCCCATATGCTCCCCAGGGATGGGGAAATGCATATCCACACT
GGCAGCAGCAGGCTCCTCCTGATCCAGCTAAGGCAGGAACGGATCCAAATTCAGCAGCTTGGGCTGCTTATTACG
CTCACTATTATCAACAGCAAGCACAGCCACCACCAGCAGCCCCTGCAGGTGCACCAACTACAACCTCAAACCTAATG
GACAAGGAGATCAGCAGAATCCAGCCCCAGCTGGACAGGTTGATTATACCAAGGCTTGGGAAGAGTACTACAAGA
AAATGGGTGAGGCAGTTCTGTCTCCGACTGGGGCTCCTCCAGGTGGTTCAGCCAGATTATAGTGCAGCCTGGGCTG
AGTATTATAGACAACAAGCAGCCTATTATGCCAGACAAGTCCCCAGGGAATGCCACAGCATCCTCCAGCACCTC
AGGGCCAATAATAAGAAGTGGACAATACAGTATTTGCTTCATTGTGTGGGGGAAAAAACCTTTGTTAAATATAT
GGATGCAGACGACTTGATGAAGATCTTAATTTTGTGTTTTGTTTTAAATAGTGTTCCTTTTTTTTTTTTTTTT
TTTGAAAATGTACAAAATATCTATCACTACTGATAGGAGGTTAATATTTCTGTGTAGAAATGAAAATTGGTTTGT
TTTTAGTATTTAGTGTAGATGTACACATTCCAGCAAATGTATTTGCAATTATGTGGTTGATGCTTTGTGATATAA
ATGTACTTTTTCAATGTATACTTTCACTTTCCAAATGCCTGTTTTGTGCTTTACAATAAATGATATGAAACCTCA

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FIGURE 400

MADYSTVPPSSGSAGGGGGGGGGVNDALQARARQIAAKIGGDAGTSLNSNDYGYGGQKRPLEDGDQPD
KKVAPQNDSTQGLPPMHQQSRVMTTEYKVPDGMVGFIIIGRGGEQISRIQQESGCKIQIAPDSGGLPERS
CMLTGTPESVQSAKRLDQIVEKGRPAPGFHHGDGPGNAVQEIMIPASKAGLVIGKGGETIKQLQERAGV
KMMI QDGPQNTGADKPLRITGDPYKVQQAKEMVLELIRDQGGFREVRENEYGSRI GGNEGIDVPIPRFA
VGIVIGRNGEMIKKIQNDAGVRIQFKPDDGTTPERIAQITGPPDRCQHAAEIIITDLLRSVQAGNP
GGPGPGGRGRGRGQGNWNMGPPGGLQEFNFIVPTGKTGLIIGKGGETIKSISQQSGARIELQRNPP
PNADPNMKLFTIRGTPQQIDYARQLIEEKIGGPVNPLGPPVPHGPHGVPGPHGPPGPPGPGT
PMGPYNPAPYNP GPPGPPHGPAPYAPQGWGNAYPHWQQQAPDP AKAGTDPNSA
AWAAYYAHYYQQAQPPPAAPAGAPTTTQTNGQGDQQNPAPAGQVDYTKAWEEYKKMGQAVP
APTGAPPGGQPDYSAWAEEYRQQAAYYAQTSPQGMPQHPPAPQGG

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FIGURE 401

AGGATGATCAAGCTGTTCTCGCTGAAGCAGCAGAAGAAGGAGGAGGAGTCGGCGGGCGGCACCAAGGGCAGCAGC
AAGAAGGCGTCGGCGGGCGCAGCTGCGGATCCAGAAGGACATAAACGAGCTGAACCTGCCCCAAGACGTGTGATATC
AGCTTCTCAGATCCAGACGACCTCCTCAACTTCAAGCTGGTCATCTGTCCTGATGAGGGCTTCTACAAGAGTGGG
AAGTTTGTGTTCAGTTTTTAAGGTGGGCCAGGGTTACCCGCATGATCCCCCAAGGTGAAGTGTGAGACAATGGTC
TATCACCCCAACATTGACCTCGAGGGCAACGTCTGCCTCAACATCCTCAGAGAGGACTGGAAGCCAGTCCTTACG
ATAAACTCCATAATTTATGGCCTGCAGTATCTCTTCTGGAGCCCAACCCGAGGACCCACTGAACAAGGAGGCC
GCAGAGGTCCTGCAGAACAACCGGCGGCTGTTTGAGCAGAACGTGCAGCGCTCCATGCGGGGTGGCTACATCGGC
TCCACCTACTTTGAGCGCTGCCTGAAATAGGGTTGGCGCATACCCACCCGCCGCCACGGCCACAAGCCCTGGCAT
CCCCTGCAAATATTTATTGGGGGCCATGGGTAGGGGTTTGGGGGGCGGCCGGTGGGGGAATCCCCTGCCTTGGCC
TTGCCTCCCCTTCCTGCCACGTGCCCCTAGTTATTTTTTTTTTAACACCAGGCTAACTAAAGGGGAATGTTACTG
C

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FIGURE 402

MIKLFSLKQQKKEEESAGGTKGSSKKASAAQLRIQKDINELNLPKTCDISFSDPDDLNFKLVICPDEGFYKSGK
FVFSFKVGQGYPHDPPKVKCETMVYHPNIDLEGNVCLNILREDWKPVLINSIIYGLQYLFLEPNPEDPLNKEAA
EVIQNNRRLFEQNVQRSMRGGYIGSTYFERCLK

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FIGURE 403

CCGGCGGTGACAACGGCAACATGGCCCTGAACGGAGCTGAAGTCGACGACTTCTCCTGGGAGCCCCGACTGAGG
CGGAGACGAAGGTGCTGCAGGCGCGACGGGAGCGGCAAGATCGCATCTCCCGGCTCATGGGCGACTATCTGCTGC
GCGGTTACCGCATGCTGGGCGAGACGTGTGCGGACTGCGGGACGATCCTCCTCCAAGACAAACAGCGGAAAAATCT
ACTGCGTGGCTTGTGAGGAACTCGACTCAGACGTGGATAAAAGATAATCCCGCTCTGAATGCCCAGGCTGCCCTCT
CCCAAGCTCGGGAGCACCAGCTGGCCTCAGCCTCAGAGCTCCCCCTGGGCTCTCGACCTGCGCCCCAGCCCCCAG
TACCTCGTCCGGAGCACTGTGAGGGAGCTGCAGCAGGACTCAAGGCAGCCCAGGGGCCACCTGCTCCTGCTGTGC
CTCCAAATACAGATGTGATGGCCTGCACACAGACAGCCCTCTTGAGAAGCTGACCTGGGCCTCTGCTGAACTGG
GCTCCAGCACCTCCCTGGAGACTAGCATCCAGCTGTGTGGCCTTATCCGCGCATGTGCGGAGGCCCTGCGCAGCC
TGCAGCAGCTACAGCACTTAAGAGAAGCCCCCTGAGAAAAACCCTCTAGAAAAACAAAAAAA

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FIGURE 404

MALNGAEVDDFSWEPPTAETKVLQARRERQDRISRLMGDYLLRGYRMLGETCADCGTILLQDKQRKIYCVACQE
LDSDVDKDNPALNAQAALSQAREHQLASASELPLGSRPAPQPPVPRPEHCEGAAAGLKAAQGPPAPAVPPNTDVM
ACTQTALLQKLTWASAE LGSSTSLETSIQLCGLIRACAEALRSLQQLQH

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FIGURE 405

GGTGCTTCTGAGATGTGGGCTTGACACGCTGTTGCTATAGTACGTGTGATCCTGACTGCTGTCATGSCGTGCCC
TCTGGAGAAGGCCCTGGATGTGATGGTGTCCACCTTCCACAAGTACTCGGGCAAAGAGGGTGACAAGTTCAAGCT
CAACAAGTCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGC
TTTCCAGAAGCTGATGAGCAACTTGGACAGCAACAGGGACAACGAGGTGGACTTCCAAGAGTACTGTGTCTTCCT
GTCCTGCATCGCCATGATGTGTAACGAATTCTTTGAAGGCTTCCAGATAAGCAGCCCAGGAAGAAATGAAACT
CCTCTGATGTGGTTGGGGGGTCTGCCAGCTGGGGCCCTCCCTGTCGCCAGTGGGCACCTTTTTTTTTTCCACCCTG
GCTCCTTCAGACACGTGCTTGATGCTGAGCAAGTTCAATAAAGATTCTTGGAAGTTT

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FIGURE 406

MACPLEKALDVMVSTFHKYSGKEGDKFKLNKSELKELLTRELP SFLGKRTDEAAFQKLMSNLDSNRDNEVDFQEY
CVFLSCIAMMCNEFFEGFPDKQPRKK

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FIGURE 407

GCTCTCAGAGGCAGCGTGCGGGTGTGCTCTTTGTGAAATTCCACCATGGCGTACCGTGGCCAGGGTCAGAAAGTG
CAGAAGGTTATGGTGCAGCCCATCAACCTCATCTTCAGATACTTACAAAATAGATCGCGGATTCAGGTGTGGCTC
TATGAGCAAGTGAATATGCGGATAGAAGGCTGTATCATTGGTTTTGATGAGTATATGAACCTTGTATTAGATGAT
GCAGAAGAGATTCATTCTAAAACAAAGTCAAGAAAACAACTGGGTCGGATCATGCTAAAAGGAGATAATATTACT
CTGCTACAAAGTGTCTCCAACTAGAAATGATCAATGAAGTGAGAAATTGTTGAGAAGGATACAGTTTGTTTTAG
ATGTCCTTTGTCCAATGTGAACATTTATTCATATTGTTTGATTACCCTCGTGTTACTACAAGATGGCAATAAAT
ACTATGGGATTGTTTGTATTAAAAAATTTACATTGCTTCTTAAAAA

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FIGURE 408

YAYRGQGQKVQKVMVQPINLIFRYLQNRSRIOVWLYEQVNMRIEGCIIGFDEYMNVLDDAEEIHSKTKSRKQLG
RIMLKGDNITLLQSVSN

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FIGURE 409

GAATTCGGGGCGCCAGCTACGCCGCTGCCGCTGTCACTATGGCCCATTACAAAGCCGCCGACTCGAAGCGTGAGC
AGTTCCGGAGGTACTTGGAGAAGTCGGGGGTGCTGGACACGCTGACCAAGGTGTTGGTAGCCTTATATGAAGAAC
CAGAGAAACCTAACAGTGCCTTTGGATTTTTTAAAGCATCACTTAGGAGCTGCTACTCCAGAAAATCCAGAAATAG
AGCTCGTTCGCCTAGAACTGGCCGAAATGAAAGAGAAGTATGAAGCTATTGTAGAAGAAAATAAAAACTGAAAG
CAAAGCTTGCTCAGTATGAACCACCTCAGGAGGAGAAGCGTGCTGAATAGGATTCTTCTCAGTTTGAAAGACAAT
GAAAAATGGTTTTGTATGACTTGAATAGTTTGTATAGTATATAATCTTTTCTGAACAGATGCTATAGAACTCTTT
TAATATGTTTAATTCACCTATCACACTCTGTAAAAACACATAGAATCATCAATAAAAACTCAATATAACTTTCT
TTGGGTCTTAAAGCAGGAGAATCCAAAGTAAATCCTGAACAAAACCTAAACACAGCCATCTAACTCATTACCTTA
AAAGACATTCTGTTTATTAGTCTGATTAGGAATGATGGCACTGGTTGTATTTTAGCCAAGACAGTTTAGCATGGA
GCTATTCCTTGGTGCAGTTCAGGATATGAACACAGGTACAGTCATTCTTTGAACGGTGACACTGTTCTGTATATT
CCCTATAGGCAGCTGGAGAGATCTGTGTGACACAAGATGCTTTGTACGGGTTCCCATGAATCTTCTGCTCTTGT
TTGTGTGACATGAAACAAATAACTTCTTTGCCACCACTTTGCCTTAGATAACTGTGTGTGTGTGTGCCAGTTTGA
ACTCTGACACCACATTTTCTTCTATGCAATCATGCCTGTCTGATAATCTTGCATTGCTTTCTCTGAGCTTTAG
TGGTCCCTAGTGCACAATGGCCTTTCTGTGCTGTTTTCAATTTGCCCTAATAATAGCAGTTACCCCTGATTGTAAT
TTATGTAACTTTAAACAGGATCACACTGTACCCCTGCCTGCCTTATTTGCTTACTGAGCACAGGACAGAGGCAA
TATACAACCTCTGGGTTTACACACAAGCTGAGATGAGAAGAGGAATGAGCCATATATTGGGGAAAATCATAGTTTG
TAGGTATAATTATATAGTGCTTTTCTCCCTCAAAGTATTTTCTAGCCTTGAATTCATTTTATCTTCATTATCCC
TGTGAAGTAGGTGGGACAAGTATAAGGGGAAGAGGGGTGCTGAATTTTtagGCCAAAGACTGATATTAATACAAA
TCACTCACTAAGTGTAGAGCCTTGGGCATTATCAGTGAACCTCTGAGATTTACTGTCTTCATCTGTTTAAATGA
GTAGAATGTCCGTGATGCCTACCTCACAGGGTGTGTTGTGAGGGTCAAATGAGAATGTATGTGAAAGATTTGTAAA
TGGTAAAGCACTATATTCTTGTGTTTGTAGTCCTTTTCTTTCTTTGGGTAGACCTACAGTCAGATGTTTTGTTT
TATGGATCACTTATTTTCTTACTGGTAGACTGTCGTTTTATAGACATATTCCTATTTTATATATTCTCTCCCTG
TTGTTAGAGAACCTATCTTTGTTTTTGGTCAAXACACACATAGAAAACAAAATGATCCAATGAAAACCTGGTTTAA
CTAGCAAAAGCCTTGGCACCTGTTGGAGACTATGACCAAGCCAATAAAAAGGGCATTATAATCAGCCCTGTTAGT
AGGAATGTGGCTATGGCTGGTGCCTCTTCTAGTCACAAGTTTGTGTTTTGGAGGGGGTCCAGAAGATCATTCCCTT
GCATAGATTTCTCTTTTACCAATTTGAGTGCCTCCTACATGGGCAGCAGTGGACTAAGTGCTGGGTGTGATAAAG
AGGAATGACTTAATTATGAGACTGTATATAATCAAATACAGTGTGGGTTAGGACCTGTGGCAGACCATTATAATA
AAGCATGGCCCCGTGAGGGTTTTGAAAGAGAAAAA

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FIGURE 410

MAHYKAADSKREQFRRYLEKSGVLDTLTKVLVALYEEPEKPNsALDFLKHHLGAAATPENPEIELVRLELAEMKEK
YEAIVEENKKLKAKLAQYEPPQEEKRAE

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FIGURE 411

GGGTGAGCAAAGGGGCGGGTCCCTGGCTGCTGTGGCCTCCCCTGACCCCTCCCCCGCTGCTGGGGTCCTCGGC
CAAGCCCCCTTCTCACTGGACTGAGACATGAGGCTGAGCTGGTTCCGGGTCTGACAGTACTGTCCATCTGCCTG
AGCGCCGTGGCCACGGCCACGGGGGCCGAGGGCAAAGGAAGCTGCAGATCGGGGTCAAGAAGCGGGTGGACCAC
TGTCCTCATCAAATCGCGCAAAGGGGATGTCCTGCACATGCACTACACGGGGAAGCTGGAAGATGGGACAGAGTTT
GACAGCAGCCTGCCCCAGAACCAGCCCTTTGTCTTCTCCCTTGGCACAGGCCAGGTCATCAAGGGCTGGGACCAG
GGGCTGCTGGGGATGTGTGAGGGGGAAAAGCGCAAGCTGGTGATCCCATCCGAGCTAGGGTATGGAGAGCGGGGA
GCTCCCCAAAGATTCCAGGCGGTGCAACCCTGGTGTTCGAGGTGGAGCTGCTCAAAATAGAGCGACGAAGTGA
CTGTAAACAGACTGGGGAGGGGCAGGGGGAGAGGCCCCCATCAGGGACCAGACTGTTCCAAAAAAAAAACAAAA
ACAAAAACAAACAAAAAACACTTAAAAGCCCAAGGAGTAAGCCTGTGTGTTTGTGGGCCCTGAGAGACTCAGAG
ACCTCAGCTCCAGCATACCCACACCTTCTCCTTTCC

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FIGURE 412

MRLSWFRVLTVLSICLSAVATATGAEGKRKLQIGVKKRVDHCPIKSRKGDVLHMHYTGKLEDGTEFDSSLPQNQP
FVFSLGTGQVIKGWDQLLGMCEGEKRKLVIPSELGYGERGAPPKIPGGATLVFEVELLKIERTEL

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FIGURE 413

GGGGGAAAGGAAAATAATACAATTTTCAGGGGAAGTCGCCTTCAGGTCTGCTGCTTTTTTATTTTTTTTTTTTTTA
ATTAAAAAAGGACATAGAAAACATCAGTCTTGAACTTCTCTTCAAGAACCCGGGCTGCAAAGGAAATCTC
CTTTGTTTTTGTATTATGTGCTGTCAAGTTTTGAAGTGGTGATCTTTAGACAGTGACTGAGTATGGATCATTT
GAACGAGGCAACTCAGGGGAAAGAACATTCAGAAATGTCTAACAATGTGAGTGATCCGAAGGGTCCACCAGCCAA
GATTGCCCGCTGGAGCAGAACGGGAGCCCGCTAGGAAGAGGAAGGCTTGGGAGTACAGGTGCAAAAATGCAGGG
AGTGCCTTTAAACACTCGGGCCATCTGATGAAAACCAACCTTAGGAAAGGAACCATGCTGCCAGTTTTCTGTGT
GGTGGAACATTATGAAAACGCCATTGAATATGATTGCAAGGAGGAGCATGCAGAATTTGTGCTGGTGAGAAAGGA
TATGCTTTTCAACCAGCTGATCGAAATGGCATTGCTGTCTCTAGGTTATTCACATAGCTCTGCTGCCAGGCCAA
AGGGCTAATCCAGGTTGGAAAGTGGAAATCCAGTTCCACTGTCTTACGTGACAGATGCCCCGTGATGCTACAGTAGC
AGATATGCTTCAAGATGTGTATCATGTGGTCACATTGAAAATTACAGTTACACAGTTGCCCCAACTAGAAGACTT
GCCTCCCGAACAATGGTTCGCACACCACAGTGAGGAATGCTCTGAAGGACTTACTGAAAGATATGAATCAGAGTTC
ATTGGCCAAGGAGTGCCCCCTTTCACAGAGTATGATTTCTTCCATTGTGAACAGTACTTACTATGCAAATGTCTC
AGCAGCAAAATGTCAAGAAATTTGGAAGGTGGTACAAACATTTCAAGAAGACAAAAGATATGATGGTTGAAATGGA
TAGTCTTTCTGAGCTATCCAGCAAGGCGCCAATCATGTCAATTTTGCCAGCAACCAGTTCCAGGGAAACACAGC
CGAGCAGCCTCCATCCCCTGCGCAGCTCTCCCATGGCAGCCAGCCCTCTGTCCGGACACCTCTTCCAAACCTGCA
CCCTGGGCTCGTATCAACACCTATCAGTCCTCAATTGGTCAACCAGCAGCTGGTGATGGCTCAGCTGCTGAACCA
GCAGTATGCAGTGAATAGACTTTTAGCCAGCAGTCCTTAAACCAACAATACTTGAACCACCTCCCCCTGTGAG
TAGATCTATGAATAAGCCTTTGGAGCAACAGGTTTCGACCAACACAGAGGTGTCTTCCGAAATCTACCAGTGGGT
ACGCGATGAACTGAAACGAGCAGGAATCTCCCAGGCGGTATTTGCACGTGTGGCTTTTAAACAGAACTCAGGGCTT
GCTTTTCAGAAATCCTCCGAAAGGAAGAGGACCCCAAGACTGCATCCAGTCTTTGCTGGTAAACCTTCGGGCTAT
GCAGAATTTCTTGAGTTACCGGAAGCTGAAAGAGACCGAATATACCAGGACGAAAGGGAAAAGGAGCTTGAATGC
TGCCCTCGGCCATGGGTCTGCCCCCTCATCAGCACACCACCCAGCCGTCTCCCCAGGTGAAAACAGCTACTAT
TGCCACTGAAAGGAATGGGAAACCAGAGAACAATACCATGAACATTAATGCTTCCATTTATGATGAGATTACAGCA
GGAAATGAAGCGTGCTAAAGTGTCTCAAGCACTGTTTGCAAAGGTTGCAGCAACCAAAAGCCAGGGATGGTTGTG
CGAGCTGTTACGCTGGAAAGAAGATCCTTCTCCAGAAAACAGAACCCTGTGGGAGAACCTCTCCATGATCCGAAG
GTTCTCAGTCTTCTCAGCCAGAACGTGATGCCATTTATGAACAGGAGAGCAACGCGGTGCATCACCATGGCGA
CAGGCCGCCCCACATTATCCATGTTCCAGCAGAGCAGATTACAGCAACAGCAGCAGCAACAGCAACAGCAGCAGCA
GCAGCAGCAGGCACCGCCGCCTCCACAGCCACAGCAGCAGCCACAGACAGGCCCTCGGCTCCCCCACGGCAACC
CACGGTGGCCTCTCCAGCAGAGTCAGATGAGGAAAACCGACAGAAGACCCGGCCACGAACAAAAATTTAGTGGA
AGCCTTGGGAATCCTCCAGAGTTTCATACAAGACGTGGGCCTGTACCCTGACGAAGAGGCCATCCAGACTCTGTC
TGCCAGCTCGACCTTCCCAAGTACACCATCATCAAGTTCTTTCAGAACAGCGGTACTATCTCAAGCACACGG
CAAATGAAGGACAATTCCGGTTTAGAGGTGATGTGGCAGAATATAAAGAAGAGGAGCTGCTGAAGGATTTGGA
AGAGAGTGTCCAAGATAAAAATACTAACACCCTTTTTTCAGTGAACTAGAAGAAGAGCTGTCAGTGGAAGGAAA
CACAGACATTAATACTGATTTGAAAGACTGAGATAAAAGTATTTGTTTCGTTCAACAGTGCCACTGGTATTTACT
AACAAAATGAAAAGTCCACCTTGTCTTCTCAGAAAACCTTTGTTGTTTATTGTTTGGCCAATGAATCTTCAA
AACTTGACAAAACAGAAAAGTTGGAAAAGGATAATACAGACTGCACTAAATGTTTTCTCTGTTTTACAACTGC
TTGGCAGCCCCAGGTGAAGCATCAAGGATTGTTTGGTATTAAATTTGTTGTTTACGGGATGCACCAAAGTGTGTA
CCCCGTAAGCATGAAACCAGTGTTTTTTGTTTTTTTTTAGTTCTTATTCGGAGCCTCAAACAAGCATTATACC
TTCTGTGATTATGATTTCTCTCTATAATTATTTCTGTAGCACTCCACACTGATCTTTGGAACTTGCCCCCTTA
TTTAAAAA

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FIGURE 414

MDHLNEATQGKEHSEMSNNVSDPKGPPAKIARLEQNGSPLGRGRLGSTGAKMQGVPLKHSGLMKTNLRKGTMLP
VFCVVEHYENAIEYDCKEEHAEFVLVRKDMFLNQLIEMALLSLGYSHSSAAQAKGLIQVGKWNVPVLSYVTDAPD
ATVADMLQDVYHVVTCLKIQLHSCPKELEDLPPEQWSHTTVRNALKDLLKDMNQSSLAKECPLSQSMISSIVNSTYY
ANVSAAKCQEFGRWYKHFKKTKDMMVEMDSLSELSQQGANHVNFQQPVPGNTAEQPPSPAQLSHGSQPSVRTPL
HPGLVSTPISPQLVNQQLVMAQLLNQQYAVNRLLAQQLNQQYLNHPPPVSRSMNKPPEQQVSTNTEVSSEI
RDELKRAGISQAVFARVAFNRTOGLLSEILRKEEDPKTASQSLVNLRAMQNLQLEAERDRIYQDERER
AASAMGPAPLISTPPSRPPQVKTATIATERNKGKPNNTMNINASIYDEIQQEMKRAKVSQALFAKVAATKSQ
WCELLRWKEDPSPENRTLWENLSMIRFLSLPQPERDAIYEQESNAVHHHGDRPPHIIHVPAEQIQQQQQQQQ
QQQQQQAPPQPQQQPQTGPRLP RPQT VASPAESDEENRQKTRPRTKISVEALGILQSFIQDVGLYPDEEAI
CAQLDLPKYTIIKFFQNRYYLKHHGKLKDNSGLEVDVAEYKEEELKDLSESVQDKNTNTLFSVKLEEEELS
CUTDINTDLKD

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FIGURE 415

ACTCAGTGTTCGCGGGAGCCGCACCTACACCAGCCAACCCAGATCCCGAGGTCCGACAGCGCCCGGCCAGATCC
CCACGCCTGCCAGGAGCAAGCCGAGAGCCAGCCGGCCGGCGCACTCCGACTCCGAGCAGTCTCTGTCTTCGACC
CGAGCCCCGCGCCCTTTCCGGGACCCCTGCCCGCGGGCAGCGCTGCCAACCTGCCGGCCATGGAGACCCCGTCC
CAGCGGCGCGCCACCCGAGCGGGGCGCAGGCCAGCTCCACTCCGCTGTGCGCCACCCGCATCACCCGGCTGCAG
GAGAAGGAGGACCTGCAGGAGCTCAATGATCGCTTGGCGGTCTACATCGACCCTGTGCGCTCGCTGGAAACGGAG
AACGCAGGGCTGCGCCTTCGCATCACCGAGTCTGAAGAGGTGGTCAGCCGCGAGGTGTCCGGCATCAAGGCCGCC
TACGAGGCCGAGCTCGGGGATGCCCGCAAGACCCCTTGACTCAGTAGCCAAGGAGCGCGCCCGCTGCAGCTGGAG
CTGAGCAAAGTGCGTGAGGAGTTTAAGGAGCTGAAAGCGCGCAATACCAAGAAGGAGGGTGACCTGATAGCTGCT
CAGGCTCGGCTGAAGGACCTGGAGGCTCTGCTGAACTCCAAGGAGGCCGCACTGAGCACTGCTCTCAGTGAGAAG
CGCACGCTGGAGGGCGAGCTGCATGATCTGCGGGGCCAGGTGGCCAAGCTTGAGGCAGCCCTAGGTGAGGCCAAG
AAGCAACTTCAGGATGAGATGCTGCGGGCGGTGGATGCTGAGAACAGGCTGCAGACCATGAAGGAGGAAGTGGAC
TTCCAGAAGAATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACCCGACTGGTGAGATTGAC
AATGGGAAGCAGCGTGAGTTTGAGAGCCGGCTGGCGGATGCGCTGCAGGAAGTGCAGGGCCAGCATGAGGACCAG
GTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCCAGGCAGTCTGCTGAGAGG
AACAGCAACCTGGTGGGGGCTGCCCACGAGGAGCTGCAGCAGTCGCGCATCCGCATCGACAGCCTCTCTGCCAG
CTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTTCGAGACCTGGAGGACTCACTGGCCCGTGAG
CGGGACACCAGCCGGCGGCTGCTGGCGGAAAAGGAGCGGGAGATGGCCGAGATGCGGGCAAGGATGCAGCAGCAG
CTGGACGAGTACCAGGAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCACGCCTACCGCAAGCTCTTG
GAGGGCGAGGAGGAGAGGCTACGCCTGTCCCCCAGCCCTACCTCGCAGCGCAGCCGTGGCCGTGCTTCCTCTCAC
TCATCCCAGACACAGGGTGGGGGCGAGCGTCAACAAAAAGCGCAAAGTGGAGTCCACTGAGAGCCGCGCAGCAGCTTC
TCACAGCACGCACGCACTAGCGGGCGCGTGGCCGTGGAGGAGGTGGATGAGGAGGGCAAGTTTGTCCGGCTGCGC
AACAAGTCCAATGAGGACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGAGATGATCCCTTGCTGACT
TACCGGTTCCCACCAAAGTTACCCCTGAAGGCTGGGCAGGTGGTGACGATCTGGGCTGCAGGAGCTGGGGCCACC
CACAGCCCCCTACCGACCTGGTGTGGAAGGCACAGAACACCTGGGGCTGCGGGAACAGCCTGCGTACGGCTCTC
ATCAACTCCACTGGGGAAGAAGTGGCCATGCGCAAGCTGGTGCGCTCAGTGACTGTGGTTGAGGACGACGAGGAT
GAGGATGGAGATGACCTGCTCCATCACCAACATGTGAGTGGTAGCCGCCGCTGAGGCGGAGCCTGCACTGGGGCC
ACCCAGCCAGGCCTGGGGGCGAGCCTCTCCCCAGCCTCCCGTGCCAAAAATCTTTTCATTAAAGAATGTTTGGA
CTTT

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FIGURE 416

METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDRLAVYIDRVRSLETENAGLRLRITESEEVVSREVS
GIKAAEAEELGDARKTLDSVAKERARLQLELSKVREEFKELKARNTKKEGDLIAAQARLKDLEALLNSKEAALST
ALSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQKNIYSEELRETKRRHETR
LVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSAERNSNLVGAAHEELQQSRIRID
SLSAQLSQLQKQLAAKEAKLRDLEDLARERDTSRRLLAEKEREMAEMRARMQQQLDEYQELLDIKLALDMEIHA
YRKLEGEERLRLSPSPTSQRSRGRASSHSSQTQGGGSVTKKRKLESTESRSSFSQHARTSGRVAVEEVDEEGK
FVRLRNKSNEQSMGNWQIKRQNGDDPLLTYRFPKFTLKAGQVVTIWAAGAGATHSPPTDLVWKAQNTWCGNS
LRTALINSTGEEVAMRKLVRSVTVVEDDEDEDGDDLLHHHHVSGSRR

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FIGURE 417A

GGGGGAGGGAAACGGAGCAGTAACAAGTATCCCAGAGGGTGCTGCTGAGGCGACGATGGCCGAGGGGCCCCGAGGA
AGCCCCGAGGCCACCCTCCCGGGCAGGACGATGGCGGGGGGGACCACGAGCCCGTCCCTTCCCTGAGAGGCCCTCC
TACCACCGCCGTCCCATGCCCGCGACGACCCCCAGGCCGAACCCAGGCCCGGGCCGCCCCACAGCCCCGGG
CCTCGCGGCTGCCGCCGAGCCGACAAATTGGAGCCGCCGCGCGAGCTCAGGAAGCGCGGGGAGGCGGCCCTCCGG
CTCCGGTGCAGAGCTGCAGGAGCAGGCGGGCTGCGAGGCGCCCCGAAGCCGCGGCGCCACGAGAGAGACCAGCTCG
GCTGAGCGCCCCGCGAGTACTCCCGGCAAGTGCACGAGTGGCTGTGGCAGTCCTACTGCGGCTACCTCACCTGGCA
CAGCGGCCTGGCCGCCTTCCCAGCCTACTGCAGCCCCAGCCCTCCCCGCAAAGCTTCCCTTCGGGCGGCGCTGC
AGTCCCCCAGGCCGCGGCGCCGCCGCCCGCCCGCAGCTGGGCTATTACAACCCCTTCTACTTCTGAGCCCCGGGGC
CGCGGGGCTGACCCGCGGACAGCTGCCGGCATCAGCACCCCTGCTCCAGTCGCGGGCCTGGGACCCCGGGCTCC
TCACGTGCAGGCGTGGTCCGGGCCACTCCAGTGACGAGGGTAGGATCCGCGAGCCCTTCGCGAAGCCCGAGCGA
GACCGGGCGACAGGCAGGCAGAGAATATGTTATTCCATCCTTGGCCACAGATTTATGGCAGAGATGGTGGATTT
CTTTATTCTCTTCTTTATAAAAGCAACCATTGTCTTAAGCATTATGCACCTCAGTGGGATAAAGGATATCTCTAA
GTTTGCTATGCATTATATAAAGAAATAGATGAAGACACATCAATGGAAGACTTGCAGAAAATGATGGTTGT
GGCACTTATATACAGATTATTAGTTTGTCTTATGAGATAATTTGCATTGGGGAGCAGGTGGAGCTACCCAGG
GAAGTTCCTGCTGGGGCTTCGAGTTGTGACATGTGATACATCAGTGCTTATTGCACCAAGTCGGGTTTTAGTGAT
TCCTTCCTCAAATGTTAGCATTACAACGTCCACTATCCGAGCTTTGATCAAGAATTTTTCAATTGCTTCTTTTTT
CCCTGCTTTCATCACACTGCTGTTTTTTCAGCATAATCGAACAGCTTATGACATTGTAGCAGGAACCATTGTGGT
AAAAAGAAATGGGGTCAGATGATGCCCCCCAAAACCTGATTTCCACACACTAAGACTAAATTATGTATCAAGGC
CATCAGTATCCCTGGGTTACACTAATTGATGATTTAGAAATTAAGCAGTCACTCCAGTGTGATGCAGGTGACTA
CTCTGAAAGTATTGATTATACTTGAATGCCAAAGAACTTGTCCAGAAGAAAACCTGTTAAATTCAAGTATTAAA
ATTTTTAGATCAAAAAGGCAAATGATTTTATAAAACAATGGACAATATATACTTTCTTAAGATCTAAGGTACTTTC
TTAAGATCTAAGAATTTGCTGAAAGCATTTTCAGCTTTGAAATCTCCAAATGAAACTTTAAATTTATTTTGGTT
TATCCCAAATAATGAAAATGTCCAGTTGTGTTTTGTAAACACCTATGTAACCTCATCTTTTAGTTTACACTTCC
TGGGGAAATTGCTTTGGTGTTTAGAGGAGGGAATGAGAACACAAATTGGATAATCCACTGTCTCCCATCCCAGG
AGGTGGTGAGTTGGCTACAAGAGAAAGGGACAAGTGAGGCAGGCCTAGCAGTTCCCTTACCTGAAGTTTTCAAAT
CCATACCTGCAGTTCCCTCTCGTAATGATGTAACCTTTACAACCTATTCTTAATGCTTGAACATGTATTTAGGGGCAA
GTTTCTCATGATGATGAAAAAGTATCAAGTCATATTGCTATGTTAATTGGTTTTTTTTTTTTTAAAGGTAAGTTAG
TGATTACTGTTAATGGTGGGGGAGTAAGTTTTCACTGTAAATTGAACCTTATAATTTATGTGCAAGTGTTTTAGT
GCCCTGAATCAAACCTATAAATGTGGGGAGAAATCACCTCCATCAAACAGTTGCATATTTACTGTAAAGTATTCC
CAGTATGTGTGCAGCATGAAGAAAGTATTAGTGCTTCTCAGTGTTCTCAGTGTAATTTCTATTTATATACAGCAT
ATTCACATACTACTTTTCTTATATTTTATATAGTTCTATGACTGTTGAAACATCAAGGAGTTAAAAAATCTTAA
TATTTTCATGATTAAGTCTAAGTACTATTAATAGCTTGCAGAAATATTAGCAATTTTCCATTATGGACTATCTCTC
TAAAGCAAGAGAGACTAGCATTCCCAGACATCATTCTAGGGTCTTTAAGCTCATTTTGGGTCTGCTAAAGTTTGG
GGGGAAATGTTACGCAAAGTGATACTGTGTATGTTGCCATTTTGCTTTATTCTTCTGTTGAAGCAAAATTGTGGG
GTTTTATTATGTGTGTGTGCTTTTCTTAGATGTCCAGTTAGCTGTGCTGAGATATACCTGTACTATTTATGGTT
TAAGTTTTGATTCTTAGGTATTTTCTCCAGCTCTGACATTGTTTTCCAAAGACACACTAAACTGCATTGCACAGT
TCAAATTTGATTACTTAAGGGATCAATCTAGGTGGTGTCTTGGTCTTAAATTTAACAGCAAACACAGCACATA
TCTATTATCACTATATTAATTTTCAAAGGTTTTTCTGTGACGTTTAAACTGTGACAACAGATATTCACATTTGA
TTATAGAACTTAATGTCTATTAATAATTTTAGTACAAAATTTTATAAACCCTGTTTTTCAAATAAGTTTATGT
CAAATCCAGCTTCCCAGAAACACTAATAATTAAGTACATCAATGTACTAAATAAATCATTAGTTGCACCCATGG
GGAAGATTGTGTTACTGCCCTTACAGTGAAAAAAGAAAAATCTTTCATTTTTTAAATTAGGAGATGTTACGTA
ACTTGGCACTTTAGTAGTGATACACTAGCATTAGTTTATACACCCTTTTGCCGCTGGGGATTCAAGTTGAAAT
GTCCCTCAATCATATAGGTCTGGAATACATCTTTCATTTCATAATTTCTGCTCAGATAATTGAATAGTTTGCCATC
GAGATTATTTTCATTTATACTATAAAACAAAAGCAAACCTAGTCCAGTTTAATTTTTTGTACTTAGAATATTGCAC
ATTTTCTATATATGAGTTATTTCAGATTAGTATCTATGTAGTTTCACTCAGATCCAACCATGGATTTCAGGTTATTA
TACTGTATAACCCTACAAAATACATAGAAGTATTATTGCTTTCATAATAGAACCCAAGAGTCTGTTTCAATTTA
TGAATTCAGTATTGTGACCGAGATTTTGAATCCCAAAGTTTGAAAAAATGACAAAACAACGAGGGAAGAAGGA
ACCAGACCTTAGTGCCACATATTTTTCTTGGGGTGTAAAGTAGTCTCCTGCTTTCCAGAACCTTTATTATA

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FIGURE 417B

TTTCACTTATAGACCTGATTTTCTGTGTCAAAGTATAATTCTCATGCTGAAGCTGTAGCCTAAAAAGCCAAAAGA
AAGTTGTCTTCATTGTACAAACATATTCATCACTTTAACAATAAGGGAACAAAATTTAGTATTCAAGCTGAGTGA
GAATACTGGTTCAATGGACATGTCCCTAAGATAAACCAGAATTGGCAGTTAATTTAGGCGTCTAGAAAATCTCAG
TTCCCACCAGTAAAAATTATCCTGAGTAGCTAATGCACCTTGAGAAAAATCTGGCATACTGAATAAGTAACATTAA
CTTGGGAGCCAAGAGCTGGGTAAGCCTTACCTTTAGACTACTCTGTGACTACAGAAATAAAGCCAGCACCTTTGG
AACTAATAAGCCTTCACTTGTCAGTATCATAAAGAGTATTGCCCAACTGAACTTTGCTCCCACTGGTTTAATAGT
TACTTATTTCTGCCTAAGCACTCACCTTCCGATTTTACCCAAGTATATATATAGGATAGAAAAAATGCATTATA
TTTGAGAGCTCACTTCGCCCCGAATTACAAAATGAGTGTTTTTAGATTCAAGTGACGGTAAAAGGATTTGTTCCCT
TCAGTGACTTGAGTGTTTTAGTTATGCATAAGTATTTCTAGCAAAGGAAGGGTAGAAAGGAATTGAAAATTAATT
TACACTAGTTGCTACTTGGAATAAAGGGCTTTTTGAGGGGGGTATGGATATTAAATGTTTTCGTTATATACTTA
TCCCTATTAAAACAGGCAGTTGTTTCTTTGAATATGCCTAAATAACAGTATTCTTAAATCTGACAGACAAGTAA
CATGTCAATTACTTGATAATTCCTTGCTCCAGTACCACAGGCCACTCTTGACATCCCATGTTTGCCTGGATAAAG
TTCTCATTTCAAACAGTATACATACTTCTTTGCAGTTCATTATAGTAAGGCTTAACCTGTAAACAGTATCTGAT
GGCCCACCTATAAATAAAATTCAGCATTCTATTTTAATAATTTGTATGCCACCAATTTGTATTATTTGTCTCAA
TAAATACTTAGTCATCGATGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 418

MAEGPEEARGHPPGQDDGGGDHEPVPSLRGPPTTAVPCPRDDPQAEPQAPGRPTAPGLAAAAAADKLEPPRELK
RGEAASGSGAELQEQAGCEAPEAAAPRERPARLSAREYSRQVHEWLWQSYCGYLTWHSGLAAPAYCSPQPSQS
FPSGGAAVPQAAAPPPQLGYYNFFYFLSPGAAGDPRTAAGISTPAPVAGLGPRAPHVQASVRATPVTRVGSAA
PSRSPSETGRQAGREYVIPSLAHRFMAEMVDDFFILFFIKATIVLSIMHLSGIKDISKFAMHYIIIEIDEDTSMED
LQKMMVVALIYRLLVCFYEIICIWGAGGATPGKFLGLRVVTCDTSVLIAPSRVLVIPSSNVSITTSTIRALIKN
FSIASFFPAFITLLFFQHNRTAYDIVAGTIVVCRNGVR

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FIGURE 419A

GCCATTTCCTCCTCTTGTGTTTCACTCCGGATTCTCCATGTTGGACCCAACTGAGGAGCCCCGGAGCTGCCGCTGG
GGATCGGGGCGGGGGCACCCGGGGGAGCCGCTGCCGGGCGCCCGCCCTTTGTACAGGCCGCTCCCTTCCC
GGTCCGGGGAGGAAACGAGAGGGGGGATGTGAACAGCTGTGGAAGTCGGAGTCTCGGGAGCCGGAGCGGGCCCC
GCCCAGGCCCCCAGCCCAGCCCAGCCGCGCGCCCGCCGTCCTCCCGTCCAGCCAGCCCAGGGCCCGCGGGATT
AGATGGAACACGGCTCCATCATCACCCAGGCGCGGAGGGAAGACGCCCTGGTGCTACCAAGCAAGGCCTGG
CAAGTCCTCTCCTAAGAAGCCTCGTGGACGTAACATCTTCAAGGCCCTTTCTGTGCTGTTTTTCGCGCCAGC
TTGGCCAGTCAAGTTCCTCCACTGAGCTCGCTGCGTATAAGGAGGAAGCAAACACCATTGCTAAGTCGGATC
GCTCCAGTGCTCCAGTACCAGTTCTACCAGATCCCAGGGACCTGCCTGCTCCCAGAGGTGACAGAGGAAGATC
CAAGGATCTGTGTGGTCATTGACCTCGATGAAACCCCTTGTGCATAGCTCCTTTAAGCCAATCAACAATGCTG
CATAGTGCCATATAGAGATTGAGGGGACCACTACCAGGTGTATGTGCTCAAGAGGCCTTATGTGGATGAGT
GAGACGCATGGGGGAACCTTTGAATGTGTTCTTCTACTGCCAGCCTGGCCAAGTATGCCGACCCTGTGA
ACCTGCTGGACCGGTGTGGGGTGTTCGGGCCCCGCTATTCCGTGAGTCTTGCGTGTTCACCAGGGCTGCT
TCAAGGACCTCAGCCGCTGGGGAGGGACCTGAGAAAGACCCCTCATCCTGGACAACCTGCCTGCTTCTTACA
TCCACCCCGAGAATGCAGTGCCTGTGCAGTCTTGGTTTGTATGACATGGCAGACACTGAGTTGCTGAACCTGA
TCCCAATCTTTGAGGAGCTGAGCGGAGCAGAGGACGTCTACACCAGCCTTGGGGCAGCTGCGGGCCCCCTTAGCCT
GCCCTGCTTCCAAGCGACGGCCATCCCAGTAGGGGACTTTCCCACTGTGCCTTTACGATCAGCGTGACAGAGT
AGAAGCTGGAGTGCCTCACCACACGGCCCCGAAACAGCGGGAAGTAACTGGAAAGAGCTTTAGGACAGCTTAGAT
GCCGAGTGGGCGAATGCCAGACCAATGATACCCAGAGCTACCTGCCGCCAAGTGTGAGATGTGTGTTTGAAGT
TGAGAGAGTGTGTGTTTGTGTGTGTGTTTGGCCATGAACTGTGGCCCCAGTGTATAGTGTTCAGTGGGGGAGAA
GCTGAAAGACCAAGACTCTTCCCAAGTTAGCTTGTCTCCTCTCCTGTACCCCTAAGAGCCACTGAGTTGTGTAGG
GATGAARACTATTGAAGACTCCATTGCCAAACCATGGCCTTTCCTCAGTGTGTAAGGCCTATGCCAAGGATAAA
GGAAGGGTATGCCTTTGGGTACTCCAGGCATACACCTTTCTGAAATCCTTCTCCAGCCAGCTGCTGCAGACAAAA
GATCACATTTCTGGGAAGATGAGAACTGTGTTCCAGACCAGCATCCAGTGGCCATCAGGTCTTGTGGCCCCAAGG
CTATGCTTGCCCTCCGGCTGAGTGCCTGGGATAGGCCTTTTCTATGTCTCCCAAGGCTGGGGTGCTGAGCCTGCC
TTCCTCACCACCTAGCCATAGTCTCAAACCTGTGGGGAAGGAGGTTTTCTCCCTGCCCGGGAAGAGGACAGATAA
CTGATTTCCGTTCTTTTGAAGTGTGTTTAAATTTCTTTCTAAACACAGAGTGTGAGGCTGGTTTGTGTTCTGA
CAAAGTTACAGTCTGGGCCTGTAATGAATGTCGGCGGCGCTGGGGTTCAGGGAAAAGACAAATCCTCAAAGCG
TGGACGTGTGTCCCATGGCTTGTGGATCAGCTAAGCTCGGGATCATTCCATAAGTCTGCTTTTCAGGGATTCT
CTGCTGGTGTGCTGGTGCAAGGACTTCTGTTCCAAAGGCTGGGAAAACTAAGCTGTCCCAGCCCCCTCCATTTCTT
GGGCAGGGCTCTTTTCTGTGTGCTTCCCCCAGGGCCTGTCTGTACCGAGCTCTGTCTGTTCCAGCCTACAT
CCTTCTGGGTGTTGCTTTTCTCTTAAGGGCCTCAGAACTCTTGCTCTTCTGGGGTGAGGGGGAATGAGTGT
CTTGACATGTGACAGCCTAATGCGCATGCTTTCTGCCTCTGGTAACAGGAGTGAGTGAGCCCCCTCAGACCTGCAC
TCTGGGTGTCTCTGCTTACAAAGGTTCTTAATAGTGAATGCTTTAAATTAAGTCAACGAAATGGAAGTTT
TCCCAGGGTGGAAAATAAGAGGAAGTGTGCTGTAATTGGGAGCACAAGGGGCTCCCAAAAAGGAGCCCCACCT
CAGCATCACTGCCTTAATCGTGGCCTCCCTGGGGTGGGTGGGGTTCTCTCCTCCCTCCCTCCCTCCTCCTGGGGT
GGGAGGGCGCTCCTGTTCCCATCTCTGTGTTCCCTGGAGGCAGGTATCACAAAGCATTGTGAATTGCTTTAGGT
GCAGGGACACCACCCACTCAGGACTCTTCCCCATCATCCCTTCCATTGCCACACCCTAGATCCAGCCTCAGGAAC
TAACAAGTTKTGAGAAAAGCAGGTGGTAGAGCAGCAGCTTCGTGCTCTCAGCGGTGGCTGGCTGGCATTTTTCTC
TAGCGTTGTGGTGCCACCTTCCCTTCTGTGCCAAGGTTATAAGGCCTTGTCTTTCTCTTTGGAATCATAAAGTG
GAACAGAGTCCCCAGAATCATGTGGHCATTTCCGACAGCATCACTCCCCGGTGCCATGAGGGTCCCGGTGTACC
TAAAGGGAGAAGGACCCCATGTGCTAGCCAGAAATATACTGTCTCTTGAAGGAAAGCAGGAGCTCAGACTCTTAG
AGCCAGCTGTGGCTTCGGACCCAAGGCCTGACCTAGGCTGCTATCCTAATATTGGAGGAGGGGCTCTCTTCCAA
GCCCCACCTAAGGGTTAGCCCTTGGACAAATCTTGTGCCGTCTAGGCCAGCCAGGCTTTTCTGACTAAATAAG
CAATAAGAGGCTTAAGCTGACTGAGTTGCAAGGACCCCTTCCGCCCTCCCTTGGATCTCCATGTTTCTCCAGAT
GGCGGAAGAGCATGTGCCACCCCTTTCTTAACAGACTTGTCCAAGTGCTTGGCGTGGGACCCATGACCAAAGCC
CAGGATGGCTTGGTGGGAGTGTCCCTGCTGCATCTGCATGAAGCCCCCTGCTTTTAGGCCTCACTCCCATCAGAA
CCCTGCTGCCACCTGCAACTCCCCCAACAATGCCATTCCCACTTGCCCCAGAGAAGCTACTCGGCCAAACC
TAGCCAGGGTCTGTTCTTGTGGACCAGAGCCAGCCTAGTCATTATTGCTGTGGGTTTCCAGTTTACCCTGTG

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FIGURE 419B

TTAGGGTGAGGGATGATTGTAAAATTTGCTCCTCAAAGGAATCAGGCCAGACTCAATTTTGGGAGGGCAAGACAG
GGAGGAGGCCGCTTCATCCCAGACTCTCTTCTAGGGCTTCCCACCATCAGCCCCTCCCACTTGAGACTGGTCTTT
GGGAGGCAATAGGCCACCATGCCTGGTCAGCACCAATTCAAGCCATGCCAGGAATCTGCCTACCTGCCAGGTTCA
GTTCTTTTAAGGTGCCTCTTCAGGGACACAGTGTGTCTCTCTGATTGGGCTTCTAAATCAAAGCCTGATGTTCCG
TGTCCCTCTCATAGGGGGAGCTTTGGACACAGGACCAGTTTGAAAAAGGGTCAGGTAAGGGTTTCCACTCTGCAC
ATTGTAGAGGGAACACTCTGTAGGCCCATGGGTCCCTTACTAGAGAGGTTGAGTGAATTTGCCTTCAGTTAACAT
GGGACCTTCTGTTTAGCTTCCTCTTGCTTCCCAAAGATTTTAAGCATTTTGTAATGTATAAACTCACCTCTGGT
AACAGTGGCCCAGACGCTGCTTTGTGCTAAAAGCATGGGAAATGTAAAGGCAGTCTTCTCTGGGAAATGGATGC
TATTCTATTCTGCTGCCCCCTACCTGTTCTGAGGCCTCATTTAGAAAAGAAAATCCCCTCAGAAGGCTGTCTGGCA
CCCAGTGTCTAGCCAGGCCAAGTATATGAGAAAAGGTAAGTCCATTTTCCCCTTCAGGTCTCAGTGGATTACTT
AACCCTGCTGTCCCTCGGTCCCTTTTTCTTAAACGGGTTTAGTTCTGTCTTTTTTCTCCTTTTTTCTAAATGCT
GGTAAATATTTACATTACAGCCAGGGAAGAGGAGGCCAGAGGTCGGGCCAGCTGCCCCATTCTTTAACGTTGTAG
GGCCTGCCCATGGAGCGGACCCTCCTCTTTGGGCCTCGTGAGCTTTTTTGCTTATCATGTTCCATTTTCGTGCCGC
TTTCCCCCTTCAAGATGCCATTTGGAGGGTAGGGGATCTGCTTCCCCTGTGACTGGGCTATGGGATTCTGACTA
CCTTGCTTACAGATTTCATGGTTTGATAAATTTGTTGTATTCCAAAACCTGAAATGCAGGACGCCATTAAGTGTCT
GTTTATATTTTTTGAATATTTGTATTACTTACAATTAATTAATAAAAGTGGGTTTAAAAAACCTTTCCAGGAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 420

MAWWECPCCICMKPLLFRPHSHQNPACPPATPPQQCHSHLPQRSYSAPKSQGLFLWTRASLVIICRVSSFTVC

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FIGURE 421A

GGCGCGGGCGGCCTGGAGCCCCGGGAGCGGCGCGCGGGTCCCGGCCAGCCGGCTCTCCTGGCCTCGCGCTGCA
CATTCTCTCCTGGCGGGCGGCGCCACCTGCAGTAGCGTTGCCCCGAACATGGCGACACGGAGCAGCAGGAGGGAGT
CGCGACTCCCGTTTCTATTACCCCTGGTGCAGCTGCTGCCGCCGAGCTCTCTGCGAAGTCTGGACGCAGAGGC
TGCACGGCGGCGAGCGCGCCCTTGCCCCAGGACCGGGGCTTCTCGTGGTGCAGGGCGACCCGCGCGAGCTGCGGC
TGTGGGCGCGCGGGGATGCCAGGGGGGCGAGCCGCGCGGACGAGAAGCCGCTCCGGAGGAAACGGAGCGCTGCCC
TGCAGCCCCGAGCCCATCAAGGTGTACGGACAGGTTAGTCTGAATGATTCCCAATCAGATGGTGGTGCAGTGGG
CTGGAGAGAAAAGCAACGTGATCGTGGCCTTGCGCCGAGATAGCCTGGCATTGGCGAGGCCCAAGAGCAGTGATG
TGTACGTGTCTTACGACTATGGAATCATTCAAGAAATTTAGACAAGTTAAACTTTGGCTTGGGAAATAGGA
GTGAAGCTGTTATCGCCAGTTCTACCACAGCCCTGCGGACAACAAGCGGTACATCTTTCAGACGCTTATGCC
AGTACCTCTGGATCACGTTTGACTTCTGCAACACTCTTCAAGGCTTTTCCATCCCATTTGCGGCGAGCTGATCTCC
TCCTACACAGTAAGGCCTCCAACCTTCTCTTGGGCTTTGACAGGTCCCAACCAAGCAGCTGTGGAAGTCAG
ATGACTTTGGCCAGACCTGGATCATGATTGAGGAACATGTCAAGTCCTTTCTTGGGGAATTGATCCCTATGACA
AACCAAATACCATCTACATTGAACGACACGAACCTCTGGCTACTCCACTGTCTTCCGAAGTACAGATTTCTTCC
AGTCCCGGGGAAAACAGGAAGTGATCCTTGAGGAAGTGAGAGATTTTCAGCTTCGGGACAAGTACATGTTTGCTA
CAAAGGTGGTGCATCTCTTGGGCGAGTGAACAGCAGTCTTCTGTCCAGCTCTGGGTCTCCTTTGGCCGGAAGCCCA
TGAGAGCAGCCCCAGTTTGTACAAGACATCCTATTAATGAATATTACATCGCAGATGCCCTCCGAGGACCAGGTGT
TTGTGTGTGTCAGCCACAGTAACAACCGCACCAATTTATACATCTCAGAGGCAGAGGGGCTGAAGTTCTCCCTGT
CCTTGGAGAACGTGCTCTATTACAGCCAGGAGGGGCCGCGCAGTGACACCTTGGTGAGGTATTTTGCAAATGAAC
CATTTGCTGACTTCCACCGAGTGGAAGGATTGCAAGGAGTCTACATTGCTACTCTGATTAATGGTTCTATGAATG
AGGAGAACATGAGATCGGTATCACCTTTGACAAAGGGGGAACTGGGAGTTTCTTCAGGCTCCAGCCTTCACGG
GATATGGAGAGAAAATCAATTGTGAGCTTTCCAGGGCTGTTCCCTTCATCTGGCTCAGCGCCTCAGTCAGCTCC
TCAACCTCCAGCTCCGGAGAATGCCCATCCTGTCCAAGGAGTCGGCTCCAGGCCTCATCATCGCCACTGGCTCAG
TGGGAAAGAACTTGGCTAGCAAGACAAACGTGTACATCTCTAGCAGTGCTGGAGCCAGGTGGCGAGAGGCACTTC
CTGGACCTCACTACTACACATGGGGAGACCACGGCGGAATCATCACGGCCATTGCCAGGGCATGGAAACCAACG
AGCTAAAATACAGTACCAATGAAGGGGAGACCTGGAAAACATTATCTTCTCTGAGAAGCCAGTGTTTGTGTATG
GCCTCCTCAGAACCTGGGGAGAAGAGCACTGTCTTACCATCTTTGGCTCGAACAAAGAGAATGTCCACAGCT
GGCTGATCCTCCAGGTCAATGCCACGGATGCCTTGGGAGTTCCCTGCACAGAGAATGACTACAAGCTGTGGTCA
CATCTGATGAGCGGGGAATGAGTGTTTGTCTGGGACACAAGACTGTTTTCAAACGGCGGACCCCCCATGCCACAT
GCTTCAATGGAGAGGACTTTGACAGGCCGGTGGTCTGTCCAAGTCTCTGCACCCGGGAGGACTATGAGTGTTG
ACTTCGGTTTCAAGATGAGTGAAGATTTGTCAATAGAGTTTGTGTTCCAGATCCGGAATTTTCTGGAAAGTCAT
ACTCCCTCCTGTGCCTTGCCCTGTGGGTCTACTTACAGGAGAACGAGAGGCTACCGGAAGATTTCTGGGGACA
CTTGTAGCGGAGGAGATGTTGAAGCGCGACTGGAAGGAGAGCTGGTCCCTGTCCCCTGGCAGAAGAGAACGAGT
TCATTCTGTATGCTGTGAGGAAATCCATCTACCGCTATGACCTGGCCTCGGGAGCCACCGAGCAGTTGCCCTCA
CCGGGCTACGGGCGAGCAGTGGCCCTGGACTTTGACTATGAGCACAACTGTTTGTATTGGTCCGACCTGGCCTTG
ACGTCATCCAGCGCCTCTGTTTGAATGGAAGCACAGGGCAAGAGGTGATCATCAATTCTGGCCTGGAGACAGTAG
AAGCTTTGGCTTTTGAACCCCTCAGCCAGCTGCTTTACTGGGTAGATGCAGGCTTCAAAAAGATTGAGGTAGCTA
ATCCAGATGGCGACTTCCGACTCACAATCGTCAATTCCTCTGTGCTTGATCGTCCCAGGGCTCTGGTCTCTGTC
CCCAAGAGGGGGTGATGTTCTGGACAGACTGGGGAGACCTGAAGCCTGGGATTTATCGGAGCAATATGGATGGTT
CTGCTGCCTATCACCTGGTGTCTGAGGATGTGAAGTGGCCCAATGGCATCTCTGTGGACGACCAGTGGAATTACT
GGACGGATGCCTACCTGGAGTGCATAGAGCGGATCACGTTAGTGGCCAGCAGCGCTCTGTCAATTCTGGACAACC
TCCCGCACCCCTATGCCATTGCTGTCTTTAAGAATGAAATCTACTGGGATGACTGGTCACAGCTCAGCATATTCC
GAGCTTCCAAATACAGTGGGTCCCAGATGGAGATTCTGGCAAACCAGCTCACGGGGCTCATGGACATGAAGATTT
TCTACAAGGGGAAGAACACTGGAAGCAATGCCTGTGTGCCAGGCCATGCAGCCTGCTGTGCCTGCCCAAGGCCA
ACAACAGTAGAAGCTGCAGGTGTCCAGAGGATGTGTCCAGCAGTGTGCTTCCATCAGGGGACCTGATGTGTGACT
GCCCTCAGGGCTATCAGCTCAAGAACAATACCTGTGTCAAAGAAGAGAACACCTGTCTTCGCAACCAGTATCGCT
GCAGCAACGGGAACGTGATCAACAGCATTGGTGGTGTGACTTTGACAACGACTGTGGAGACATGAGCGATGAGA
GAAACTGCCCTACCACCATCTGTGACCTGGACACCCAGTTTTCGTTGCCAGGAGTCTGGGACTTGTATCCCACTGT
CCTATAAATGTGACCTTGAGGATGACTGTGGAGACAACAGTGATGAAAGTCATTGTGAAATGCACCAGTGCCGGA

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FIGURE 421B

GTGACGAGTACAACACTGCAGTTCCGGCATGTGCATCCGCTCCTCCTGGGTATGTGACGGGGACAACGACTGCAGGG
ACTGGTCTGATGAAGCCAACTGTACCGCCATCTATCACACCTGTGAGGCCTCCAACCTCCAGTGCCGAAACGGGC
ACTGCATCCCCCAGCGGTGGGCGTGTGACGGGGATACGGACTGCCAGGATGGTTCCGATGAGGATCCAGTCAACT
GTGAGAAGAAGTGCAATGGATTCCGCTGCCCAAACGGCACTTGCATCCCATCCAGCAAACATTGTGATGGTCTGC
GTGATTGCTCTGATGGCTCCGATGAACAGCACTGCGAGCCCCCTCTGTACGCACCTTCATGGACTTTGTGTGTAAGA
ACCGCCAGCAGTGCCCTGTTCCACTCCATGGTCTGTGACGGAATCATCCAGTGCCGCGACGGGTCCGATGAGGATG
CGGCGTTTGCAGGATGCTCCCAAGATCCTGAGTTCCACAAGGTATGTGATGAGTTCCGTTTCCAGTGTGAGAATG
GAGTGTGCATCAGTTTGATTGGAAGTGCGACGGGATGGATGATTGCGGCGATTATTCTGATGAAGCCAACTGCG
AAAACCCACAGAAGCCCCAACTGCTCCCGCTACTTCCAGTTTCGGTGTGAGAATGGCCACTGCATCCCCAACA
GATGGAAATGTGACAGGGAGAACGACTGTGGGGACTGGTCTGATGAGAAGGATTGTGGAGATTACATATTCTTC
CCTTCTCGACTCCTGGGCCCCTCCACGTGTCTGCCCAATTACTACCGCTGCAGCAGTGGGACCTGCGTGATGGACA
CCTGGGTGTGCGACGGGTACCGAGATTGTGCAGATGGCTCTGACGAGGAAGCCTGCCCTTGCTTGCAAACGTCA
CTGCTGCCTCCACTCCCACCCAACCTTGGGCGATGTGACCGATTGAGTTCGAATGCCACCAACCGAAGACGTGTA
TTCCCAACTGGAAGCGCTGTGACGGCCACCAAGATTGCCAGGATGGCCGGGACGAGGCCAATTGCCCCACACACA
GCACCTTGACTTGATGAGCAGGGAGTTCCAGTGCGAGGACGGGGAGGCCTGCATTGTGCTCTCGGAGCGCTGCG
ACGGCTTCTGGACTGCTCGGACGAGAGCGATGAAAAGGCTGCAGTGATGAGTTGACTGTGTACAAAGTACAGA
ATCTTCAGTGGACAGCTGACTTCTCTGGGGATGTGACTTTGACCTGGATGAGGCCCAAAAAATGCCCTCTGCTT
CTTGTGTATATAATGTCTACTACAGGGTGGTTGGAGAGAGCATATGGAAGACTCTGGAGACCCACAGCAATAAGA
CAAACACTGTATTAAAGTCTTGAAACCAGATACCACGTATCAGGTTAAAGTACAGGTTTCACTGTCTCAGCAAGG
CACACAACACCAATGACTTTGTGACCCTGAGGACCCAGAGGGATTGCCAGATGCCCTCGAAATCTCCAGCTGT
CACTCCCCAGGGAAGCAGAAGGTGTGATTGTAGGCCACTGGGCTCCTCCCATCCACACCCATGGCCTCATCCGTG
AGTACATTGTAGAATACAGCAGGAGTGGTTCCAAGATGTGGGCTCCCAGAGGGCTGCTAGTAACTTTACAGAAA
TCAAGAACTTATTGGTCAACACTCTATACACCGTCAGAGTGGCTGCGGTGACTAGTCGTGGAATAGGAACTGGA
GCGATTCTAAATCCATTACCACCATAAAAGGAAAAGTGATCCACCACCAGATATCCACATTGACAGCTATGGTG
AAAATTATCTAAGCTTACCCTGACCATGGAGAGTGATATCAAGGTGAATGGCTATGTGGTGAACCTTTTCTGGG
CATTGACACCCACAAGCAAGAGAGGAGAACTTTGAACTTCCGAGGAAGCATATTGTACACAAAAGTTGGCAATC
TGACAGCTCATACATCTATGAGATTCTGCCTGGGCCAAGACTGACTTGGGGGATAGCCCTCTGGCATTGAGC
ATGTTATGACCAGAGGGGTTGCCCCACCTGCACCTAGCCTCAAGGCCAAGCCATCAACCAGACTGCAGTGGAAAT
GTACCTGGACCGGCCCCCGGAATGTGGTTTATGGTATTTTCTATGCCACGTCCTTTCTTGACCTCTATCGCAACC
CGAAGAGCTTGACTACTTCACTCCACAACAAGACGGTCATTGTGAGTAAGGATGAGCAGTATTTGTTTCTGGTCC
GTGTAGTGGTACCCTACCAGGGGCCATCCTCTGACTACGTTGTAGTGAAGATGATCCCGGACAGCAGGCTTCCAC
CCCGTCACTGCATGTGGTTCATACGGGCAAAACCTCCGTGGTTCATCAAGTGGGAATCACCGTATGACTCTCCTG
ACCAGGACTTGTGTATGCAATTGCAGTCAAAGATCTCATAAGAAAAGACTGACAGGAGCTACAAAGTAAATCCC
GTAACAGCACTGTGGAATACACCCTTAACAAGTTGGAGCCTGGCGGGAATAACCACATCATTTGTCCAACCTGGGGA
ACATGAGCAAAAGATTCCAGCATAAAAATTACCACAGTTTCAATTATCAGCACCTGATGCCTTAAAAATCATAACAG
AAAATGATCATGTTCTTCTGTTTTGGAAAAGCCTGGCTTTAAAGGAAAAGCATTTTAAATGAAAGCAGGGGCTATG
AGATACACATGTTTGATAGTGCCATGAATATCACAGCTTACCTTGGGAATACTACTGACAATTTCTTTAAATTT
CCAACCTGAAGATGGGTCATAATTACAGTTTACCCTCCAAGCAAGATGCCTTTTGGCAACCAGATCTGTGGG
AGCCTGCCATCCTGCTGTACGATGAGCTGGGCTCTGGTGCAGATGCATCTGCAACGCAGGCTGCCAGATCTACGG
ATGTTGCTGCTGTGGTGGTGGCCATCTTATTCCTGATACTGCTGAGCCTGGGGGTGGGGTTTGGCATCCTGTACA
CGAAGCACCGGAGGCTGCAGAGCAGCTTACCGCCTTCGCCAACAGCCACTACAGCTCCAGGCTGGGGTCCGCAA
TCTTCTCCTCTGGGGATGACCTGGGGGAAGATGATGAAGATGCCCTATGATAACTGGATTTTCAGATGACGTCC
CCATGGTGATAGCTGAAAGAGCTTCTCTACTAGAAACCAAATGGTGTAAATATTTTATTTGATAAAGATAGTT
GATGGTTTATTTTAAAGATGCACCTTGAGTTGCAATATGTTATTTTATATGGGCCAAAAACAAAAACAAAAA
AAAAAA

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FIGURE 422

MATRSSRRESRLPFLFTLVALLPPGALCEVWTQRLHGGSAPLPQDRGFLVVQGDPRELRLWARGDARGASRADEK
PLRRKRSAAALQPEPIKVYGOVSLNDSHNQMVVHWAGEKSNVIVALARDSLALARPSSDVVSYDYGKSFKKISD
KLNFG LGNRSEAVIAQFYHSPADNKRYIFADAYAQYLWITFDFCNTLQGF SIPFRAADLLHASKASNLLLGFD RS
HPNKQLWKSDDFGQTWIMI QEHVKSFSWGIDPYDKPNTIYIERHEPSGYSTVFRSTDFQ SRENQEVILEEVRDF
QLRDKYMFATKVHLLGSEQSSVQLWVSFGRKPMRAAQFVTRHP INEYYIADASEDQVFVCVSHSNRNTNLYIS
EAEG LKFSLSLE NVLYYSPGGAGSDTLVRYFANEFFADFH RVEGLQGVYIATLINGSMNEENMRSVITFDKGGTW
EFLQAPAF TGYGEKINCELSQGCSLHLAQRLS QLLNLQLRRMP ILSKESAPGLIIATG SVGKNLASKTNVYISSS
AGARWREALPGPHYTTWGDHGGIITAI AQGMETNELKYSTNEGETWKTFIFSEKPVFVYGLL TEPGEKSTVFTIF
GSNKENVH SWLILQVNATDALGVPCTENDYKLWSPSDERGN ECLLGHKTVFKRRTPHATCFNGEDFDRPVVVSNC
SCTREDYECDFGFKMSEDL SLEVCVPDPEFSGKSYSPVP CPVGSTYRRTGRYKISGDTCSGGDVEARLEGE LV
PCPLAEENE F ILYAVR KSIYRYDLASGATEQLPLTGLRAAVALDFDY EHNCLYWSDLALDVIQRLCLNGSTGQEV
I INSGLETVEALAFEPLS QLLYWVDAGFKKIEVANPDGDFRLTIVNSSVLDRPRALVLPQEGVMFWTDWGD LKP
GIYRSNM DGSAA YHLVSEDVKWPNGISVDDQWIYWT DAYLECIERITFSGQQRSVILDNLPHPYAIAVFKNEIYW
DDWSQLS IFRASKYSGSQMEILANQLTGLMDMKIFYKGKNTG SNACVPRPCSLLC LPKANNRSRSCRCPEDVSSSV
LPSGDL MCD CPQGYQLKNNTCVKEENTCLRNQYRCSNGNCINSIWWCDFDND CGDMSDERNCPTTICDLDTQFR C
QESGTCIPLSYKCDLEDDCGDNDSESHCEMHQCRSDEYNCSSGMCIRSSWVCDGDND CRDWSDEANCTAIYHTCE
ASNFQCRNGHCIPQRWACDGD TDCQDGSDEDPVNCEKKCN GFRCPNGTCIPSSKHCDGLRDCSDGSDEQHCEPLC
THFMD FVCKNRQQLFHS MVCDGIIQCRDGSDEDA AFAGCSQDPEFHKVCDEF GFGQCQNGVCISLIWKCDGMDDC
GDYSDEANCENPTEAPNCSRYFQFRCENGHCIPNRWKCDREND CGDWSDEKDCGDSHILPFSTPGPSTCLPNYYR
CSSGTCVMDTWVCDGYRDCADGSDEEACPLLANVTAAS TPTQLGRCDRFEFECHQPKTCIPNWKRC DGHQDCQDG
RDEANCPTHSTLT CM SREFQCE DGEACIVLSE RCDGFLDCSDESDEKAC SDELT VYKVQNLQWTADFSGDVTLTW
MRPKKMP SASCVYNVYYRVVGESIWK TLETHSNKINTVLKVLKPD TTYQVKVQVQCLSKAHNTNDFVTLRTPEGL
PDAPRNLQLSLPREAEGVIVGHWAPP IHTHGLIREY IVEYSRSGSKMWASQRAASNFT EIKNLLVNTLYTVRVAA
VTSRGIGNWSDSKSITTIKGVIPPPDIHIDSYGENYLSFTLT MESDIKVNGYVVNLFWAFDTHKQERRTLNFRG
SILSHKVGNLTAHTSYEISAWAKTDLGDSPLAF EHVMTRGVRPPAPSLKAKAINQTAVECTWTGPRNVVYGIFYA
TSFLDLYRNPKSLTTSLHNKTVIVSKDEQYLF LVRVVVPYQGPSSDYVVVKMIPDSRLPPRHLHV VHTGKTSVVI
KWESPYDSPDQDLLYAI AVKDLIRKTDRSYKVKS RNSTVEYTLNKLEPGG

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FIGURE 423

GGCACGAGGCTGCGCCGGAAGTCCCTAGCCAGGCCTGGCGGTAACCTTGGGGGCCTCACTGCAGCCGCGCTGCT
STTGAGTGCGCTTTGCGAGTCTGAACGTTGGCGGGGCTAGGCTCGTTAACTGCCGAGAGCCTCCGGGTTTGC GG
IGGAGGACGCTGAGGCCCGTGGGGGGCAGGCACCCGGGCGCCGGGCCTCCCAGCCGACATGCTCTCTAGTGGCGGA
AGCCTTCGTCTCCAGATTGCAGCTGCAGAACCTTGGCCTGAAAAATGCTACATTATATCAGCAATTGAAAGGGGA
AATTTTACTTTCTGACAATGCAGCTTCTCTTGCAGTGCAGGCCTTTTGGCAAATGTGTAACCTTGCTATCAA
GTTTGTAGGGCAAATGCAGAAATATATGTCTCCATCTGGTAAAGTACCTTTTATTCAATGTGGGAAATCAAGT
ATCAGAACTTGGTCCAATAGTCCAATTTGTTAAAGCCAAGGGCCATTCTCTTAGTGATGGGCTGGAGGAAGT
AAAAAGCAGAAATGAAAGCTTACATGGAATTAGTCAACAATATGCTGTTGACTGCAGAGCTGTATCTTCAGTG
TGATGAAGCTACAGTAGGGGAGATCACTCATGCTAGGTATGGATCTCCTTACCCTTGGCCTCTGAATCATAT
GCCTATCAAAAACAGTGGGAAGTCAAACGTAAGATGAAAGCTATTGGATGGGGAAAGAAGACTCTGGACCA
CTTAGAGGATGTAGACCAAGTGTCTCAAGCTCTCTCTCAAAGACTGGGAACACAACCGTATTTCTTCAATAA
GCCTACTGAACTTGACGCACTGGTATTTGGCCATCTATACACCATTCTTACCACACAATTGACAAATGATGA
TTTCTGAGAAGGTGAAAACTATAGCAACCTCCTTGCTTTCTGTAGGAGAATTGAACAGCACTATTTTGAAGA
GTGGTAAAGGCAGGCTGTCTAGAGTTATGTGTTAGTCTCAGGAGTCTTAACCTTTGAAATATGTTTTACTTG
AATGTTACATTAGATATTGGTGTGAGAATTTAAAACCAAATTACTGCTTTTTGAAACCTCAAATTATATAATGT
ATCTTATGTATGTGCTTTATATTGTTATTTGTGTATACATTAAAATAATTCTGAATTATTTAATCTGATATGTTG
TATTCTGTATCTTGAAATTTTTGTTTCCTTGAAACATGCATGCATTTAAAATAAAGCTTAAACAACCTGT

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FIGURE 424

MSLVAEAFVSQIAAAEPWPENATLYQQLKGEQILLSDNAASLAVQAFLQMCNLP IKVVCRAEYMSPSGKVPFI
HVG NQVVSELGP I VQFVKAKGHSLS DGLEEVQKAEMKAYMELVNNMLLTAE LYLQWCDEATVGEITHARYGSPYP
WPLNHILAYQKQWEVKRKMKAIGWGKKTLDQVLEDVDQCCQALSQRLGTQPYFFNKQPTELDALVFGHLYTILTT
QLTNDELSEKVKNYSNLLAFCRRIEQHYFEDRGKGRLS

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FIGURE 425

GCCCCTTTCTTTCTCCTCGTCGGCCCGAGAGCAGGAACACGATAACGAAGGAGGCCCACTTCATTCAATAAGGA
GCCTGACGGATTTATCCAGACGGTAGAACAAAAGGAAGAATATTGATGGATTTTAAACCAGAGTTTTTAAAGAG
CTTGAGAATACGGGGAAATTAATTTGTTCTCCTACACACATAGATAGGGTAAGGTTGTTTCTGATGCAGCTGAGA
AAAATGCAGACCGTCAAAAAGGAGCAGGCGTCTCTTGATGCCAGTAGCAATGTGGACAAGATGATGGTCCTTAAT
TCTGCTTTAACGGAAGTGTGAGAAGACTCCACAACAGGTGAGGACGTGCTTCTCAGTGAAGGAAGTGTGGGGAAG
AACAAATCTTCTGCATGTCGGAGGAAACGGGAATTCATTCTGATGAAAAGAAAGATGCTATGTATTGGGAAAAA
AGGCGGAAAAATAATGAAGCTGCCAAAAGATCTCGTGAGAAGCGTCGACTGAATGACCTGGTTTTAGAGAACAAA
CTAATTGCACTGGGAGAAGAAAACGCCACTTTAAAAGCTGAGCTGCTTTCACTAAAATTAAAGTTTGGTTTAATT
AGCTCCACAGCATATGCTCAAGAGATTGAGAACTCAGTAATTCTACAGCTGTGTACTTTCAAGATTACCAGACT
TCCAAATCCAATGTGAGTTTCAATTTGTGGACGAGCACGAACCCCTCGATGGTGTCAAGTAGTTGTATTTCTGTCAAT
AAACACTCTCCACAAAGCTCGCTGTCCGATGTTTCAGAAAGTGCCCTCAGTAGAACACACGCAGGAGAGCTCTGTG
CAGGGAAGCTGCAGAAGTCCTGAAAACAAGTTCCAGATTATCAAGCAAGAGCCGATGGAATTAGAGAGCTACACA
AGGGAGCCAAGAGATGACCGAGGCTCTTACACAGCGTCCATCTATCAAACTATATGGGGAATTCTTTCTCTGGG
TACTCACACTCTCCCCACTACTGCAAGTCAACCGATCCTCCAGCAACTCCCCGGGAACGTCGGAACTGATGAT
GGTGTGGTAGGAAAGTCATCTGATGGAGAAGACGAGCAACAGGTCCCCAAGGGCCCCATCCATTCTCCAGTTGAA
CTCAAGCATGTGCATGCAACTGTGGTTAAAGTTCCAGAAGTGAATTCCTCTGCCTTGCCACACAAGCTCCGGATC
AAAGCCAAAGCCATGCAGATCAAAGTAGAAGCCTTTGATAATGAATTTGAGGCCACGCAAAAACCTTTCTCTACCT
ATTGACATGACATCTAAAAGACATTTTGAAGTCAAGATTGGTCTCTCAAATCGGAGCACTGGCATCAAAAAGAACTGAGT
GGCAAAACTCAGAATAGTTTCAAAACTGGAGTTGTTGAAATGAAAGACAGTGGCTACAAAGTTTCTGACCCAGAG
AACTTGATTTTGAAGCAGGGGATAGCAAACTTATCTGCAGAGGTTGTCTCACTCAAGAGACTTATAGCCACACAA
CCAATCTCTGCTTCAGACTCTGGGTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT
AGAGCAGTCCATTTTGTATTATGCTGAATTTTCACTGGACCTGTGATGTCAATTTCACTGTGATGTGCACATGTTG
TCTGTTTGGTGTCTTTTTGTGCACAGATTATGATGAAGATTAGATTGTGTTATCACTCTGCCTGTGTATAGTCAG
ATAGTCCATGCGAAGGCTGTATATATTGAACATTATTTTTGTTGTTCTATTATAAAGTGTGTAAGTTACCAGTTT
CAATAAAGGATTGGTGACAAACACAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 426

MQLRKMQTVKKEQASLDASSNVDKMMVLNSALTEVSEDSTTGEDVLLSEGSVGKNKSSACRRKREFIPDEKKDAM
YWEKRRKNNEAAKRSREKRRLNDLVLENKLIALGEENATLKAELLSLKLKFLISSTAYAQEIQKLSNSTAVYFQ
DYQTSKSNVSSFVDEHEPSMVSSSCISVIKHSPQSSLSDVSEVSSVEHTQESSVQGSCRSPENKFQIIKQEPMEL
ESYTREPRDDRGSYTASIYQNYMGNSFSGYSHSPPLLQVNRSSSNSPGTSETDDGVVGKSSDGEDEQQVPGPIH
SPVELKHHVHATVVKVPEVNSSALPHKLRIKAKAMQIKVEAFDNEFEATQKLSSPIDMTSKRHFELEKHSAPSMVH
SSLTPFSVQVTNIQDWSLKSEHWHQKELSGKTQNSFKTGVVEMKDSGYKVSDPENLYLKQGIANLSAEVVSLKRL
IATQPISASDSG

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FIGURE 427

ATGGCGACCTGCATTTGGCTGCGGAGCTGTGGGGCCCCGGCGCCTCGGGTTCGACGTTTCCAGGCTGCCGCCTCCGC
CCCCGCGCCGGCGGCCTGGTCCCTGCCTCCGGGCCTGCGCCCCGGCCCGGCCAGCTCCGCTGCTACGCTGGGCGC
CTGGCGGGCCTCTCTGCGGCGCTGCTGCGCACCGACAGCTTCGTGGGCGGCCGCTGGCTCCCGGCCCGCCACC
TTCCCCGTGCAAGACCCGGCCAGCGGCGCCGCTCTGGGCATGGTAGCCGACTGCGGGGTGCGAGAGGCCCGCGCC
GCCGTGCGCGCTGCCTACGAGGCTTTCTGCCGCTGGAGGGAGGTCCTCGCCAAGGAGAGGAGTTTCTTACTTTCGG
AAGTGGTACAATTTAATGATACAAAATAAGGATGACCTTGCCAGAATAATCACAGCTGAAAGTGGAAGCCACTG
AAGGAGGCACATGGAGAAATTCTCTATTCCGCCTTTTTCCTAGAGTGGTTCTCTGAGGAAGCCCCGCCGTGTTTAC
GGAGACATTATCCACACCCCGGCAAAGGACAGGCGGGCCCTGGTCCTCAAGCAGCCCATAGGCGTGGCTGCAGTC
ATCACCCCGTGGAATTTCCCCAGTGCCATGATCACCCGGAAGGTGGGGGCCGCCCTGGCAGCCGGCTGTACTGTC
GTGGTGAAGCCTGCCGAAGACAGCCCTTCTCCGCCCTGGCCCTGGCTGAGCTTGCAAGCCAGGCTGGGATTCCCT
TCAGGTGTATACAATGTTATTCCCTGTTCTCGAAAGAATGCCAAGGAAGTAGGGGAGGCAATTTGTACTGATCCT
CTGGTGTCCAAATTTCTTTTACTGGTTCAACAACCTACAGGAAAGATCCTGTTGCACCACGCAGCAAACTCTGTG
AAAAGGTCTCTATGGAGCTGGGCGGCCTTGCTCCATTTATAGTATTTGACAGTGCCAACGTGGACCAGGCTGTA
GCAGGGGCCATGGCATCTAAATTTAGGAACACTGGACAGACTTGTGTTTGCTCAAACCAATTTCTTGGTGCAAAGG
GGCATCCATGATGCCTTTGTAAAAGCATTTCGCCGAGGCCATGAAGAAGAACCTGCGCGTAGGTAATGGATTTGAG
GAAGGAACCTACTCAGGGCCCATTAATTAATGAAAAAGCGGTAGAAAAGGTGGAGAAACAGGTGAATGATGCCGTT
TCTAAAGGTGCCACCGTTGTGACAGGTGGAACGACACCAACTTGGAATAATTTCTTTGAGCCTACCCCTGCTG
TGCAATGTCACCCAGGACATGCTGTGCACTCATGAAGAGACTTTCGGGCCTCTGGCACCAGTTATCAAGTTTCGAT
ACAGAGGAGGAGGCTATAGCAATCGCTAACGCAGCTGATGTTGGGTTAGCAGGTTATTTTTACTCTCAAGACCCA
GCCCAGATCTGGAGAGTGGCAGAGCAGCTGGAAGTGGGCATGGTTGGCGTCAACGAAGGATTAATTTCCCTCTGTG
GAGTGCCCTTTTGGTGGAGTGAAGCAGTCCGGCCTTGGGCGAGAGGGGTCCAAGTATGGCATTGATGAGTATCTG
GAACTCAAGTATGTGTGTTACGGGGGCTTGTAGGATTCTTTGGTTCTTTAAAAAATTTAAAAGGAGACTTATCT
ACATATATAGGTACATGCCATCCATTATTTTAAATAAACTAATAGGTTTTTCAGAATTATGAATTTTTCAGAACTC
ATCCAGTCCTTGTAATCTTAAACAGATGCAAATCCTACCCCTGCCCTTAATGTAAGTGGGACCAATATGTGCCA
CGTGCCCTGTGGCTGCAGACTCCCAGAGAACCAGCACTGGGTTTACAGAATGAGGCCCTGGCTCCCCACCACAGCC
CAGCTGCCTCAGAGCAGGCACAGCACAAGGCAGGCCCAGCCCCATGGGCCGTACAAAGGCTTGATCACTGCCTG
GGCAGTGGCACAACCATCCCCATGTCGCTACAGAACATGGGCCCAGAGCACCTTGAAGGAGACCCCTGACTGTG
ACTGGCAGGCAGGTGAGGGGCACAGCACCCCTCCCCGGCATCTGCCAGCTCAGCACAGAAGACACCGAATGTGCA
TCTGGAGGTGTTGCGGCAGAGGTTTGAGTGAACCCCTCTTTCAAAGACAATAAATAGCACAGAATTGTCCGTGCTT
CTGTGAGGCACGAAGGAGCACCTCTCCCTATTCTGAACCATATTTTAATTGATGCCTTTATTGTCCCAAATTTA
CCACTTAAAGAATTCTATTTTCAATTTCTGTCCTGTTTGCCACTTCATTTTCAATTTCTTGGAGTAAATGAGCTGAAG
TGTAAGCAAAGAATAGCAGAAGCAGCTTGGTAGGATGGAAGGCACGCAGTGGCATGGCCTGGCTCCTTCCCTGA
GTGGCCTTGTGCTTGGGCGTGTGTTTCAGCACCTCCCATCCCATGGATACAGTGGAGATTCCATACAGGCCTTA
CTTAGCTCCTTGCGATACTGTGAGCCAGAGAGAAAGTAAAAGCACTTCACAAAAA

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FIGURE 428

MATCIWLRSCGARRLGSTFPGCRLRPRAGGLVPASGPAPGPAQLRCYAGRLAGLSAALLRTDSFVGGRWLPAAAT
FPVQDPASGAALGMVADCGVREARA AVRAAYEAFCRWREVS AKERSSSLRKWYNLMIQNKDDLARIITAESGKPL
KEAHGEILYSAFFLEWFSEEARRVYGDIIHTPAKDRRALVLKQPIGVAAVITPWNFPSAMITRKVGAALAAGCTV
VVKPAEDTPFSALALAE LASQAGIPSGVYNVIPCSRKNAKEVGEAICTDPLVSKISFTGSTTTGKILLHHAANSV
KRVSME LGGLAPFIVFDSANVDQAVAGAMASKFRNTGQTCVCSNQFLVQRGIHDAFVKAF AEAMKKNLRVGNNGFE
EGTTQGPLINEKAVEKVEKQVND AVSKGATVVTGGKRHQLGKNFFEPTLLCNVTQDMLCTHEETFGPLAPVIKFD
TEEEAIAIANAADVGLAGYFYSQDPAQIWRVAEQLEVGMVGVNEGLISSVECPFGGVKQSGLGREGSKYGIDEYL
ELKYVCYGG L

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FIGURE 429

CACCGCGCAAGCGCATCCTGGCCTTTCTTCAGTCCCCACGTGCGATCCTTCCCGGCAACTTTTTTCGAGAAAAATG
CCCAAATTCAAGGCGGCCCGTGGGGTGGGGGGTTCAGGAAAAACATGCGCCCTGGCCGATCAGATCCTGGCTGGG
AATGCGGTGCGGGCGGGGGTCCGGGAGAAGCGGCGGGGTTCGCGGGACAGGAGAAGCGGAGGAAGAGTATGTGGGG
CCCCGGCTGAGCCGACGGATTTTGCAGCAAGCACGGCAGCAACAGGAGGAACCTCGAGGCCGAGCATGGGACTGGG
AAGCCCCGCGGCGCCGCGGGAACGCACCACGCGGCTGGGTCCAAGAATGCCTCAGGATGGATCAGATGACGAG
GAGGAGTGGCCACCCCTGGAGAAGGCTGCCACAATGACAGCAGCGGGCCATCATGCAGAGGTGGTTGTGGAC
GAGGATGAGCGTGCCATAGAGATGTTCATGAACAAGAACCCTCCTGCCAGGCGCACCCCTGGCTGACATCATC
ATGGAGAAGCTGACTGAGAAGCAGACAGAGGTTGAGACAGTTCATGTCAGAGGTGTCGGGCTTCCCTATGCCCCAG
GAGCCCCCGGGTCCTAGAAGTGTACAGGGGGGTCCGGGAGGTATTATCTAAGTACCGCAGTGGAACCTGCCC
GCATTTAAGATCATCCCTGCACTCTCCAACCTGGGAGCAAATCCTCTACGTCACAGAGCCGGAGGCCTGGACT
GCTGCCATGTACCAGGCCACCAGGATTTTTCCTCTAACCTGAAGGAACGCATGGCCACGCGTTCTACAAC
GTCCTGCTCCCTCGAGTACGAGATGACGTTGCTGAATACAAACGACTCAACTTCCATCTCTACATGGCTCTC
GAAGGCCCTTTTCAAACCTGGAGCCTGGTTCAAAGGGATCCTGATTCCACTGTGCGAGTCTGGCACTTGTACC
TCGGGAAGCCATCATTGTGGGTAGCATCATCACAAGTGCTCCATCCCTGTGTTGCACTCCAGTGCGGCCATG
TGAAAATTGCTGAGATGGAATACAGCGGTGCCAACAGCATCTTCTGCGACTGCTGCTGGATAAGAAGTATGCA
CTGCCTTACCGGGTGTGGATGCCCTAGTCTTCCACTTCTGGGGTTCCGGACAGAGAAGCGTGAACCTGCCTGTG
CTGTGGCACCAGTGCCCTCCTGACTTTGGTCCAGCGCTACAAGGCCGACTTGGCCACAGACCAGAAAGAGGCCCTC
TTAGAAGTGTCCGGCTGCAGCCCCATCCACAGCTATCGCCCGAAATCAGGCGTGAGCTTCAGAGTGCAGTCCCC
CGCGATGTGGAAGATGTTCCCATCACCGTGGAGTAGGAGAAAACAGTCAGCTGTCTGGCCAAAGGGGTTTGGAAG
GACACCAAGACCCCCGTTGGTGACTGAAGATGACACTGAGCTTTAATGGCTGAAGACCCAGATCAGGGCAGTGAC
AGATCACAGGGACATCTGTGGCTCCAGTCCAGGACAGGAAGGACTGAGGGTCTGGCTGGTTCCCTCTTCCATT
TAGGCCCTTATCCCTGTTTAGTTCTGAGAGCCAATTGAGATACCATATGCTAGCATTCCAGTCCCCAGCTGGG
GCTTGGTGTGAGTACTTTTCTATGGCTATTGTGTGAGGTCACTGTGGATAAAGGCAAAGACAGATATTTATTGA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 430

MNKNPPARRTLADIIMEKLTEKQTEVETVMSEVSGFPMQDPRVLEVYRGVREVLSKYRSGKLPKAFKIIPALS
NWEQILYVTEPEAWTAAAMYQATRIFASNLKERMAQRFYNLVLLPRVRDDVAEYKRLNFHLYMALKKALFKPGAW
FKGILIPLCESGTCTLREAIIVGSIITKCSIPVLHSSAAMLKIAEMEYSGANSIFLRLLLDKKYALPYRVLDALV
FHFLGFRTEKRELPVLWHQCLLTLVQRYKADLATDQKEALLELLRLQPHQLSPEIRRELQSAVPRDVEDVPITV
E

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FIGURE 432

MWEILRRKDCDKEKRVKLMSDLQKLIQGKIKTIAFAHDSTRVIQCYIQYGNEEQRKQAFEELRDDLVELSKAKYS
RNIVKKFLMYGSKPQIAEIIIRSFKGHVRLRHAESAIVEYAYNDKAILEQRNMLTEELYGNTFQLYKSADHPT
LDKVLELQPEKLELIMDEMKQILTPMAQKEAVIKHSLVHKVFLDFFTYAPPKLRSEMIEAIREAVVYLAHTHDGA
RVAMHCLWHGTPKDRKVIVKTMKTYVEKVANGQYSHLVLLAAFDICIDDTKLVKQIIISEIISSLPSIVNDKYGRK
VLLYLLSPRDPAAHTVREIIIEVLQKGDGNAHSSKDETVRRRELLESISPALLSYLQEHAEVVLDKSACVLVSDIL
GSATGDVQPTMNAIASLAATGLHPGGKDGEHLHAEHPAGHLVLKWLIEQDKMKENGREGCFAKTLVEHVGMKNL
KSWASVNRGAIILSSLLQSCDLEVANKVKAALKSLIPTLEKTKSTSKGIEILLEKLST

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FIGURE 433

GAGTGACTCCACCGCCCGGAGCAGCGGTGCAGGACGCGCGTCTCCGCCGCCGCGGTGACTTCTGCCTGCGCTCC
TTCTCTGAACGCTCACTTCCGAGGAGACGCCGACGATGAAGACACCGTGGAAGGTTCTTCTGGGACTGCTGGGTG
CTGCTGCGCTTGTCAACATCATCACCGTGCCCGTGGTTCTGCTGAACAAAGGCACAGATGATGCTACAGCTGACA
GTCGCAAACTTACACTCTAACTGATTACTTAAAAATACTTATAGACTGAAGTTATACTCCTTAAGATGGATTT
CAGATCATGAATATCTCTACAAACAAGAAAATAATATCTTGGTATTCAATGCTGAATATGGAAACAGCTCAGTTT
TCTTGGAGAACAGTACATTTGATGAGTTTGGACATTCTATCAATGATTATTCAATATCTCCTGATGGGCAGTTTA
TTCTCTTAGAATACAACCTACGTGAAGCAATGGAGGCATTCTACACAGCTTCATATGACATTTATGATTTAAATA
AAAGGCAGCTGATTACAGAAGAGAGGATTCCAAACAACACACAGTGGGTACATGGTCACCAAGTGGGTCATAAAT
TGGCATATGTTTGGAAACAATGACATTTATGTTAAAAATTGAACCAAATTTACCAAGTTACAGAATCACATGGACGG
GGAAAGAAGATATAATATATAATGGAATAACTGACTGGGTTTATGAAGAGGAAGTCTTCAGTGCCTACTCTGCTC
TGTGGTGGTCTCCAAACGGCACTTTTTTAGCATATGCCCAATTTAACGACACAGAAGTCCCACTTATTGAATACT
CCTTCTACTCTGATGAGTCACTGCAGTACCCAAAGACTGTACGGGTTCATATCCAAAGGCAGGAGCTGTGAATC
CAACTGTAAAGTTCTTTGTTGTAAATACAGACTCTCTCAGCTCAGTCACCAATGCAACTTCCATACAAATCACTG
CTCCTGCTTCTATGTTGATAGGGGATCACTACTTGTGTGATGTGACATGGGCAACACAAGAAAGATTTCTTTGC
AGTGGCTCAGGAGGATTGAGAACTATTCGGTTCATGGATATTTGTGACTATGATGAATCCAGTGGAAAGATGGAAT
GCTTAGTGGCACGGCAACACATTGAAATGAGTACTACTGGCTGGGTTGGAAGATTTAGGCCTTCAGAACCTCATT
TTACCCTTGATGGTAATAGCTTCTACAAGATCATCAGCAATGAAGAAGGTTACAGACACATTTGCTATTTCCAAA
TAGATAAAAAAGACTGCACATTTATTACAAAAGGCACCTGGGAAGTCATCGGGATAGAAGCTCTAACCAAGTGATT
ATCTATACTACATTAGTAATGAATATAAAGGAATGCCAGGAGGAAGGAATCTTTATAAAATCCAACCTAGTGACT
ATACAAAAGTGACATGCCTCAGTTGTGAGCTGAATCCGGAAAGGTGTCAGTACTATTCTGTGTCATTCAGTAAAG
AGGCGAAGTATTATCAGCTGAGATGTTCCGGTCTGGTCTGCCCTCTATACTCTACACAGCAGCGTGAATGATA
AAGGGCTGAGAGTCTTGAAGACAATTGAGCTTTGGATAAAATGCTGCAGAATGTCCAGATGCCCTCCAAAAAAC
TGGACTTCATTATTTTGAATGAAACAAAATTTTGGTATCAGATGATCTTGCCTCCTCATTTTGATAAATCCAAGA
AATATCCTCTACTATTAGATGTGTATGCAGGCCATGTAGTCAAAAAGCAGACACTGTCTTCAGACTGAACTGGG
CCACTTACCTTGCAAGCACAGAAAACATTATAGTAGCTAGCTTTGATGGCAGAGGAAGTGGTTACCAAGGAGATA
AGATCATGCATGCAATCAACAGAAGACTGGGAACATTTGAAGTTGAAGATCAAATTGAAGCAGCCAGACAATTTT
CAAAAATGGGATTTGTGGACAACAAACGAATTGCAATTTGGGGCTGGTCATATGGAGGGTACGTAACCTCAATGG
TCCTGGGATCGGGAAGTGGCGTGTTCAGTGTGGAATAGCCGTGGCGCCTGTATCCCGGTGGGAGTACTATGACT
CAGTGTACACAGAACGTTACATGGGTCTCCCACTCCAGAAGACAACCTTGACCATTACAGAAATCAACAGTCA
TGAGCAGAGCTGAAAATTTTAAACAAGTTGAGTACCTCCTTATTTCATGGAACAGCAGATGATAACGTTCACTTTC
AGCAGTCAGCTCAGATCTCCAAAGCCCTGGTTCGATGTTGGAGTGGATTTCCAGGCAATGTGGTATACTGATGAAG
ACCATGGAATAGCTAGCAGCACAGCACACCAACATATATATACCCACATGAGCCACTTCATAAAACAATGTTTCT
CTTTACCTTAGCACCTCAAAAATACCATGCCATTTAAAGCTTATTAAAACTCATTTTGTTTTCATTATCTCAAAA
CTGCACTGTCAAGATGATGATGATCTTTAAATACACACTCAAATCAAGAACTTAAGGTTACCTTTGTTCCCAA
ATTTACATACCTATCATCTTAAGTAGGGACTTCTGTCTTCACAACAGATTATTACCTTACAGAAGTTTGAATTATC
CGGTGGGTTTTATTGTTTAAATCATTTCTGCATCAGCTGCTGAAACAACAAATAGGAATTGTTTTTATGGAGG
CTTTGCATAGATTCCCTGAGCAGGATTTTAATCTTTTTCTAACTGGACTGGTTCAAATGTTGTTCTCTTTTAA
AGGGATGGCAAGATGTGGGCAGTGATGTCACTAGGGCAGGGACAGGATAAGAGGGATTAGGGAGAGAAGATAGCA
GGGCATGGCTGGGAACCCAAGTCCAAGCATAACACACAGCAGGCTACTGTGCTGCTCCCTCGGAGAAGAGCTG
TTCACAGCCAGACTGGCACAGTTTTCTGAGAAAGACTATTCAAACAGTCTCAGGAAATCAAATATGCAAAGCACT
GACTTCTAAGTAAAACACAGCAGTTGAAAAGACTCCAAAGAAATGTAAGGGAACTGCCAGCAACGCAGGCCCC
CAGGTGCCAGTTATGGCTATAGGTGCTACAAAACACAGCAAGGGTGATGGGAAAGCATTGTAAATGTGCTTTTA
AAAAAAATACTGATGTTCTTAGTGAAAGAGGCAGCTTGAAACTGAGATGTGAACACATCAGCTTGCCCTGTAA
AAGATGAAAATATTTGATCACAAATCTTAACCTGAAGGAGTCTTGCATCAATTTTCTTATTTTCAATTTTGTG
AGTGTCTTAATTAAGAATATTTTAACTTCCTTGGACTCATTTTAAAAAATGGAACATAAAATACAATGTTATG
TATTATTATCCCATTTCTACATACTATGGAATTTCTCCAGTCATTTAATAAATGTGCCTTCATTTTTTC

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FIGURE 434

MKTPWKVLLGLLGAAALVTIITVPVLLNKGTDATADSRKTYTLTDYLKNTYRLKLYSLRWISDHEYLYKQENN
ILVFNAEYGNSSVFLNSTFDEFGHSINDYSISPDGQFILLEYNVVKQWRHSYTASYDIYDLNKRQLITEERIPN
NTQWVTWSPVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWVYEEEFVSAYSALWWSPNGTFLAY
AQFNDTEVPLIEYSFYSDSLQYPKTVRVPYPKAGAVNPTVKFFVNTDSLSSVTNATSIQITAPASMLIGDHYL
CDVTWATQERISLQWLRRIQNYSVMDICDYDESSGRWNCILVARQHIEMSTTGWVGRFRPSEPHTLDGNSFYKII
SNEEGYRHICYFQIDKKDCTFITKGTWEVIGIEALTSDYLYYISNEYKMPGGRNLYKIQLSDYTKVTCLSCELN
PERCQYYSVSFSKEAKYYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDFIILNETKFW
YQMILPPHFDKSKKYPLLLDVYAGPCSQKADTVFRLNWATYLASTENIIVASFDGRGSGYQGDKIMHAINRRLGT
FEVEDQIEAARQFSKMGFVDNKRIAIWGWSYGGYVTSMVLGSGSGVFKCGIAVAPVSRWEYYDSVYTERYMGLPT
PEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNVHFQQSAQISKALVDVGVDFAQMWYTDDEDHGIIASSTAHQH
IYTHMSHFIIKQCFSLP

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FIGURE 435

CTGGGGACGCAGGATGGCGGCAGCAGTGGCGGACGAGGCGGTGGCGCGGATGTGCAGCGGTTGCTAGTGCAGTT
CCAGGATGAGGGCGGGCAGCTGCTGGGTTCCCCGTTTCGACGTGCCCGTGGACATCACCCCGGACAGGCTGCAGCT
CGTGTGCAACGCGCTACTGGCCAGGAGGATCCCTGCCACTGGCTTTCTTTGTCCACGATGCTGAGATCGTCTC
CTCACTGGGGAAGACGTTGGAGTCCAGGCAGTGGAGACAGAGAAGTCTTAGACATCATCTACCAGCCACAGGC
TTTTCAGAGTCCGGGCTGTGACTCGCTGCACCAGCTCCTTGGAGGGTCACAGTGAGGCAGTCATTTCTGTGGC
AGCCCTACGGGAAAGTACCTGGCCAGTGGCTCTGGAGACACCACCGTGCCTTCTGGGATCTCAGCACAGA
ACCACATTTACATGCAAGGGACACAGACACTGGGTCTTAGTATATCCTGGTCTCCAGATGGCAAGAAGCT
CCCTCAGGCTGCAAGAATGGCCAGATTCTCCTCTGGGACCCAAGCACAGGGAAGCAGGTGGGCAGGACCCCTCGC
CCACAGCAAGTGGATCACAGGCCTGAGCTGGGAGCCCTCCATGCGAACCCTGAGTGCCTGCTATGTGGCCAG
TCCAAGGATGGCAGTGTGCGGATCTGGGACACAACCTGCAGGCCGCTGTGAGCGCATCTCACCGGGCACAC
TCGGTCACCTGTCTCCGGTGGGGAGGGGACGGGCTTCTCTACTCTGCCTCCAGGACCGCACCATCAAAGT
GAGAGCTCATGACGGTGTGCTGTGCCGACTCTGCAAGGCCACGGCCACTGGGTGAACACCATGGCCCTCAG
TGACTATGCCCTGCGCACTGGGGCCTTTGAACCTGCTGAGGCCTCAGTTAATCCCCAAGACCTCCAAGGATC
TGAGGAGTTGAAGGAGAGGGCTCTGAGCCGATACAACCTCGTGCGGGGCCAGGGTCCAGAGAGGCTGGTGTG
TGCTCCGACGACTTCACCTTATTCTGTGGTCCCCAGCAGAGGACAAAAGCCTCTCACTCGGATGACAGGACA
CAAGCTCTCATCAACCAGGTGCTCTTCTCTCTGACTCCCGCATCGTGGCTAGTGCCTCCTTTGACAAGTCCAT
CAAGCTGTGGGATGGCAGGACGGGCAAGTACCTGGCTTCCCTACGCGGCCACGTGGCTGCCGTGTACCAGATTGC
GTGGTCAGCTGACAGTGGCTCCTGGTCAGCGGCAGCAGTGACAGCACACTGAAGGTGTGGGATGTGAAGGCCCA
GAAGCTGGCCATGGACCTGCCCCGGCCACGCGGATGAGGTATATGCTGTTGACTGGAGTCCAGATGGCCAGAGAGT
GGCAAGTGGTGGGAAGGACAAATGCCTCCGGATATGGAGGAGATGAGACGGCCCCGAAGTTCTCTCTGACCCCCAC
CTCGACTCGGCCTCTGCCAGCTGCCTTCCCTGCCAGAGAACAAGGCTGAGATGGCAGTGACACACCCCTCCCCA
CCAGTGGGGACCTGAGAATGCGTGTGGCCTGCTGTCTCGATAGACCGGAATGGGGTTTTCCACAGATCCCCGC
CTGTGGCACACCCAGAGCCAGAAATCGAAGGTCACAGGAAGTTGTCACTGAACTTGGCCCGTGTCTGCTACTCT
GTACCTTGCTGGTACAGACAGGGGTGGTGGGCAGCCAGGCTCTATGAGTGGGCCCCTAGTGTGAGCTCTGTACAG
GGTCAGATCCCAGGTTCTATGACCAATAAGTAACCTAAGTTTTGTGTGTTGGGTTCTAATTCCTTGTCTAGAA
TCCCCATGACTCAATCAAGGACTGTGCTAAATGAGATTGTCCAGCCCCCGCCCTTGCACTGGACTACGCCAAAAC
CACACTGACCAGGCACCTTGCCCTTCCCTCTCTTCCCCCGTGTGGTAAGAGAGAGGGCCAGTTGTGATAGTGGCCAA
GGAGAATCTAGGGCTGTATTGTTGTCCACTGCAGTAGGCACCGGCCACATGTGACTGCTGGCATGAAATAGAAGT
GCAGTTCTCCATCGCACTGGGTAAGGCCTCCAGTATTGGACAGCACACAGAAAGGTTTTCATCATCAAGAGAGT
TCTGCTGGTCAGCCCTGCTCCAGGGGATGCCTCTGCCTTCGCATAGCACACTGCTTGAGGCCCTGCCAGGCACCA
AGCACTGCCCTGGGCCCATGGGATAGAGCGGGGAAGGTGATGGCTCTTCCAGAGGATTCCCTCAGATGGGGAGGC
AGCAGTATGAGCTCTGAGCAGAAGTGGGTATTGTTGATACAGAGGAAGTTCTTTGCCACGAGAAGTTTCAAGCAG
TGAAAGGAATTCCCATCAGGACTCAGACCCCGAGCCGAGATCTTGCCCTGAATGTACCCTGCCTCTGCTTTCTCC
TGCATCCCATGCTAAGCAGGGTCATGGTCTGAATACTCAGATTGGATTTCCAAACCATCCTTGTATAAACTGCT
CAGAACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 436

MAAAVADEAVARDVQRLLVQFQDEGGQLLGSPFDVPVDITPDRLQLVCNALLAQEDPLPLAFFVHDAEIVSSLGK
TLESQAVETEKVLDIIYQPQAIFRVRAVTRCTSSLEGHSEAVISVAFSPTGKYLASGSGDTTVRFWDLSTETPHF
TCKGHRHWVLSISWSPDGKKLASGCKNGQILLWDPSTGKQVGRTLAGHSKWITGLSWEPLHANPECRYVASSKD
GSVRIWDTTAGRCERILTGHTQSVTCLRWGGDGLLYSASQDRTIKVWRAHDGVLCTRLQGHGHWNTMALSTDYA
LRTGAFEPAEASVNPQDLQGSLOELKERALSRYNLVRGQGERLVS GSDDFTLFLWSPAEDKKPLTRMTGHQALI
NQVLFSPDSRIVASASFDKSIKLWDGRTGKYLASLRGHVAAVYQIAWSADSRLLVSGSSDSTLKVWDVKAQKLAM
DLPGHADEVYAVDWSPDGQRVASGGKDKCLRIWRR

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FIGURE 437

GCGAGGCGCCCGAAGCCGTCGCGGCGGGGACCATGTTGCTTCCGAACATCCTGCTCACCGGTACACCAGGGGTTG
GAAAAACCACACTAGGCAAAGAAGTTGCGTCAAAATCAGGACTGAAATACATTAATGTGGGTGATTTAGCTCGAG
AAGAGCAATTGTATGATGGCTATGATGAAGAGTATGACTGTCCCATTTTAGATGAAGACAGAGTAGTTGATGAGT
TAGATAACCAAATGAGAGAAGGTGGAGTTATTGTTGATTACCATGGTTGTGATTTCTTCCCTGAACGCTGGTTTC
ATATAGTTTTTGTGCTGAGAACAGATACCAATGTATTGTACGAAAGACTTGAAACAAGGGGTTATAATGAGAAGA
AACTAACAGACAATATTCAGTGTGAGATTTTTCAAGTTCTTTATGAAGAAGCCACAGCATCCTACAAGGAAGAAA
TCGTGCATCAGCTGCCCAGTAATAAACCAGAAGAGCTAGAAAATAATGTAGATCAGATCTTGAAATGGATTGAGC
AGTGGATCAAAGATCATAACTCTTGACTTATAAGGCTAGCTACTTAATAATCACTCTTGTTGATATCTCTGCCGA
CATCATAGAAATTGTTCAAGTGTCAGTAACTTTATTAAAATCATGTTGCAGAACCAGCAGGTGGATAGTATAT
AGGTTTATGCCTGTGTTTCTTTTCTCCATGAGAAAGCTAAACATGAAATATAATGAATATAGTATTATTAAGGA
TTGAGACAAAACTGTGATTTTAATACTTAAATTGCTAAAGAATAAAATAAATCTGACAAAATGGGTGGATATCTT
TTAAGTTTATTACAGAAAAAAATGCAGATGATCTCTTAAAATAAACTAAAGATAAAGCAAAAAAA

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FIGURE 438

MLLPNILLTGTPGVGKTTLGKELASKSGLKYINVGDAREEQLYDGYDEEYDCPILEDVDELDNQMREGGVI
VDYHGCDFFPERWFHIVFLRTDTNVLYERLETRGYNEKKLTDNIQCEIFQVLYEEATASYKEEIVHQLPSNKPE
ELENNVDQILKWIEQWIKDHNS

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FIGURE 439

ATCCAATACAGGAGTGACTTGGAACCTCATTCTATCACTATGAAGAAAAGTGGTGTCTTTTCTCTTGGGCATC
ATCTTGCTGGTTCTGATTGGAGTGCAAGGAACCCAGTAGTGAGAAAGGGTCGCTGTTCTGTCATCAGCACCAAC
CAAGGGACTATCCACCTACAATCCTTGAAAGACCTTAAACAATTTGCCCAAGCCCTTCTGCGAGAAAATTGAA
ATCATTGCTACACTGAAGAATGGAGTTCAAACATGTCTAAACCCAGATTGAGCAGATGTGAAGGAACCTGATTAAA
AAGTGGGAGAAACAGGTCAGCCAAAAGAAAAAGCAAAAGAATGGGAAAAAACATCAAAAAAGAAAGTTCTGAAA
GTTCCGAAAATCTCAACGTTCTCGTCAAAAGAAGACTACATAAGAGACCCTTCACCAATAAGTATTCTGTGTAA
AAATGTTCTATTTTAATTATACCGCTATCATTCCAAAGGAGGATGGCATATAATACAAAGGCTTATTAATTTGAC
TAGAAAATTTAAACATTACTCTGAAATTGTAATAAGTTAGAAAGTTGATTTTAAGAATCCAAACGTTAAGAA
TTGTTAAAGGCTATGATTGTCTTTGTTCTTCTACCAACCCACAGTTGAATTTTCATCATGCTTAAGGCCATGATTT
TAGCAATACCCATGTCTACACAGATGTTACCCCAACCATCCCACTCACACAGCTGCCTGGAAGAGCAGCCCT
AGGCTTCCACGTACTGCAGCCTCCAGAGAGTATCTGAGGCACATGTCAGCAAGTCCTAAGCCTGTTAGCATGCTG
GTGAGCCAAGCAGTTTGAAATTGAGCTGGACCTCACCAAGCTGCTGTGGCCATCAACCTCTGTATTTGAATCAGC
CTACAGGCCTCACACACAATGTGTCTGAGAGATTGCTGCTGATTGTTATTGGGTATCACCCTGGAGATCACCAG
TGTGTGGCTTTTCAGAGCCTCCTTTCTGGCTTTGGAAGCCATGTGATTCCATCTTGCCCCGCTCAGGCTGACCACTT
TATTTCTTTTGTTCCTTTGCTTCATTCAAGTCAGCTCTTCTCCATCCTACCACAATGCAGTGCCTTTCTTCT
CTCCAGTGCACCTGTCTATGCTCTGATTATCTGAGTCAACTCCTTTCTCATCTTGTCCCCAACACCCACAGA
AGTGCTTTCTTCTCCAATTATCCTCACTCAGTCCAGCTTAGTTCAAGTCCTGCCTCTTAAATAAACCTTTTGTG
GACACACAAATTATCTTAAACTCCTGTTTCACTTGGTTGAGTACCACATGGGTGAACACTCAATGGTTAACTAA
TTCTTGGGTGTTTATCCTATCTCTCCAACCAGATTGTCAGCTCCTTGAGGGCAAGAGCCACAGTATATTTCCCTG
TTTCTTCCACAGTGCCTAATAATACTGTGGAAGTAGGTTTTAATAATTTTTTAATTGATGTTGTTATGGGCAGGA
TGGCAACCAGACCATGTCTCAGAGCAGGTGCTGGCTCTTTCTGGCTACTCCATGTTGGCTAGCCTCTGGTAAC
CTCTTACTTATTATCTTCAGGACACTCACTACAGGACCAGGGATGATGCAACATCCTTGCTTTTTATGACAGG
ATGTTTGCTCAGCTTCTCCAACAATAAGAAGCACGTGGTAAAACACTTGCAGGATATTCTGGACTGTTTTAAAAA
ATATACAGTTTACCGAAAATCATATAATCTTACAATGAAAAGGACTTTATAGATCAGCCAGTGACCAACCTTTTC
CCAACCATACAAAAATTCCTTTTCCCGAAGGAAAAGGGCTTTCTCAATAAGCCTCAGCTTTCTAAGATCTAACAA
GATAGCCACCGAGATCCTTATCGAAACTCATTTTAGGCAAATATGAGTTTTATTGTCCGTTTACTTGTTCAGAG
TTTGTATTGTGATTATCAATTACCACACCATCTCCCATGAAGAAAGGGAACGGTGAAGTACTAAGCGCTAGAGGA
AGCAGCCAAGTCGGTTAGTGAAGCATGATTGGTGCCAGTTAGCCTCTGCAGGATGTGGAAACCTCCTTCCAGG
GGAGGTTCAGTGAATTGTGTAGGAGAGGTTGTCTGTGGCCAGAATTTAAACCTATACTCACTTTCCCAAATTGAA
TCACTGCTCACACTGCTGATGATTTAGAGTGCTGTCCGGTGGAGATCCCAACCGAACGTCTTATCTAATCATGAA
ACTCCCTAGTTCCTTCATGTAACCTCCCTGAAAAATCTAAGTGTTTCATAAATTTGAGAGTCTGTGACCCACTTA
CCTTGCTCTCAGGTTAGACAGTATATACTAACAAACCAAGACTACATATTGTCACTGACACACACGTTATAA
TCATTTATCATATATATACATACATGCATACACTCTCAAAGCAAATAATTTTTCACTTCAAAACAGTATTGACTT
GTATACCTTGTAATTTGAAATATTTTCTTTGTTAAATAGAATGGTATCAATAAATAGACCATTAAATCAG

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FIGURE 440

MKKSGLFLLGIILLVLIGVQGTPVVRKGRCSCISTNQGTIHLQSLKDLKQFAPSPSCEKIEIIATLKNGVQTCL
NPDSADVKELIKKEKQVSQKKKQKNGKKHQQKKVLKVRKSQRSRQKKT

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FIGURE 441

AGACACCTCTGCCCTCACCATGAGCCTCTGGCAGCCCCTGGTCCTGGTGCTCCTGGTGCTGGGCTGCTGCTTTGC
TGCCCCCAGACAGCGCCAGTCCACCCTTGTGCTCTTCCCTGGAGACCTGAGAACCAATCTCACCGACAGGCAGCT
GGCAGAGGAATACCTGTACCGCTATGGTTACACTCGGGTGGCAGAGATGCGTGGAGAGTCGAAATCTCTGGGGCC
TGCGCTGCTGCTTCTCCAGAAGCAACTGTCCCTGCCCCGAGACCGGTGAGCTGGATAGCGCCACGCTGAAGGCCAT
AACCACCGGTGCGGGGTCCAGACCTGGGCAGATTCCAAACCTTTGAGGGCGACCTCAAGTGGCACCACCA
ATCACCTATTGGATCCAAAATACTCGGAAGACTTGCCGCGGGCGGTGATTGACGACGCCTTTGCCCGCGC
CGCACTGTGGAGCGCGGTGACGCCGCTCACCTTCACTCGCGTGTACAGCCGGGACGCAGACATCGTCATCCA
CTTGGTGTCGCGGAGCACGGAGACGGGTATCCCTTCGACGGGAAGGACGGGCTCCTGGCACACGCCTTTCCTCC
CGCCCCGGCATTAGGGAGACGCCCCATTCGACGATGACGAGTTGTGGTCCCTGGGCAAGGGCGTCGTGGTTCC
TCGGTTTGAAACGCAGATGGCGCGGCCTGCCACTTCCCTTTCATCTTCGAGGGCCGCTCCTACTCTGCCTG
GACCGACGGTCGCTCCGACGGCTTGCCCTGGTGAGTACCACGGCCAACTACGACACCGACGACCGGTTTG
CTGCCCCAGCGAGAGACTCTACACCGGGACGGCAATGCTGATGGGAACCCCTGCCAGTTTCCATTTCATCTT
AAGGCCAATCTACTCCGCCTGCACCACGGACGGTCGCTCCGACGGCTACCGCTGGTGCGCCACCACCGCCAA
ACGACCGGGACAAGCTCTTCGGCTTCTGCCCCAGCCGAGCTGACTCGACGGTGATGGGGGGCAACTCGGCGGG
GAGCTGTGCGTCTTCCCTTCACTTTCCTGGGTAAGGAGTACTCGACCTGTACCAGCGAGGGCCGCGGAGATGG
CGCCTCTGGTGCGCTACCACCTCGAACTTTGACAGCGACAAGAAGTGGGGCTTCTGCCCCGACCAAGGATACAG
TTTGTTCTCTCGTGGCGGCGCATGAGTTCGGCCACGCGCTGGGCTTAGATCATTCTCAGTGCCGGAGGCGCTCAT
GTACCCTATGTACCGCTTCACTGAGGGGCCCCCTTGCCATAAGGACGACGTGAATGGCATCCGGCACCTCTATGG
TCCTCGCCCTGAACCTGAGCCACGGCCTCCAACCACCACCACACCGCAGCCCACGGCTCCCCCGACGGTCTGCC
CACCGGACCCCCCACTGTCCACCCCTCAGAGCGCCCCACAGCTGGCCCCACAGGTCCCCCTCAGCTGGCCCCAC
AGGTCCCCCACTGCTGGCCCTTCTACGGCCACTACTGTGCCTTTGAGTCCGGTGGACGATGCCTGCAACGTGAA
CATCTTCGACGCCATCGCGGAGATTGGGAACCAGCTGTATTTGTTCAAGGATGGGAAGTACTGGCGATTCTCTGA
GGGCAGGGGGAGCCGGCCGCAGGGCCCCCTTCTTATCGCCGACAAGTGGCCCCGCGCTGCCCCGCAAGCTGGACTC
GGTCTTTGAGGAGCCGCTCTCCAAGAAGCTTTTCTTCTCTCTGGGCGCCAGGTGTGGGTGTACACAGGCGCGTC
GGTGCTGGGCCCCGAGGCGTCTGGACAAGCTGGGCCTGGGAGCCGACGTGGCCAGGTGACCGGGGCCCTCCGGAG
TGGCAGGGGGAAGATGCTGCTGTTTACGCGGGCGGCGCCTCTGGAGGTTTCGACGTGAAGGCGCAGATGGTGGATCC
CCGGAGCGCCAGCGAGGTGGACCGGATGTTCCCGGGGTGCCTTTGGACACGCACGACGTCTTCCAGTACCGAGA
GAAAGCCTATTTCTGCCAGGACCGCTTCTACTGGCGCGTGAGTTCCCGGAGTGAGTTGAACCAGGTGGACCAAGT
GGGCTACGTGACCTATGACATCCTGCAGTGCCTGAGGACTAGGGCTCCCGTCTGCTTTGCAGTGCCATGTAAA
TCCCCACTGGGACCAACCCTGGGGAAGGAGCCAGTTGCCGGATACAACTGGTATTCTGTTCTGGAGGAAAGGG
AGGAGTGGAGGTGGGCTGGGCCCTCTCTTCTCACCTTTGTTTTTTGTTGGAGTGTTCATAATAAATTGGATTCT
CTAACCTTT

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FIGURE 442

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEELYRYGYTRVAEMRGESKSLGPALLLLQ
KQLSLPETGELDSATLKAMRTPRCGVDPDLGRFQTFEGDLKWHHHNITYWIQNYSEDLPRAVIDDAFARAFALWSA
VTPLTFTRVYSRDADIVIQFGVAEHGDGYPFDGKDGLLAHAFPPGPGIQGDAHFDDELWSLGKGVVVPTRFGNA
DGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRDGNADGKPCQFPFIFQGQSYS
ACTTDGRSDGYRWCAATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCAT
TSNFDSDKKWGFCPDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPRPEPE
PRPPTTTTPQTAPPTVCPTGPPTVHPSERPTAGPTGPPSAGPTGPPTAGPSTATTVPLSPVDDACNVNIFDAIA
EIGNQLYLFDGKYWRFSEGRGSRPQGPFLLIADKWPALPRKLDVFEELSKKLFFFSGRQVWVYT GASVLGPRR
LDKLGLGADVAQVTGALRSGRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVFQYREKAYFCQ
DRFYWRVSSRSELNQVDQVG YVTYDILQCPED

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FIGURE 443

TCTTTGGTGACTTGTCCACTCCAGTGTGGCATCATGTGGCAGCTGCTCCTCCCAACTGCTCTGCTACTTCTAGTT
TCAGCTGGCATGCGGACTGAAGATCTCCCAAAGGCTGTGGTGTTCCTGGAGCCTCAATGGTACAGCGTGCTTGAG
AAGGACAGTGTGACTCTGAAGTGCCAGGGAGCCTACTCCCCTGAGGACAATTCCACACAGTGGTTTCACAATGAG
AGCCTCATCTCAAGCCAGGCCTCGAGCTACTTCATTGACGCTGCCACAGTCAACGACAGTGGAGAGTACAGGTGC
CAGACAAACCTCTCCACCCTCAGTGACCCGGTGCAGCTAGAAGTCCATATCGGCTGGCTGTTGCTCCAGGCCCT
CGGTGGGTGTTCAAGGAGGAAGACCCTATTCACCTGAGGTGTCACAGCTGGAAGAACACTGCTCTGCATAAGGTC
ACATATTTACAGAATGGCAAAGACAGGAAGTATTTTCATCATAATTCTGACTTCCACATTCCAAAAGCCCACTC
AAAGATAGCGGCTCCTACTTCTGCAGGGGGCTTGTGGGAGTAAAAATGTGTCTTCAGAGACTGTGAACATCACC
ATCACTCAAGGTTTGGCAGTGTCAACCATCTCATCATTCTCTCCACCTGGGTACCAAGTCTCTTTCTGCTTGGTG
ATGGTACTCCTTTTTGCAGTGGACACAGGACTATATTTCTCTGTGAAGACAAACATTTGAAGCTCAACAAGAGAC
TGGAAGGACCATAAACTTAAATGGAGAAAGGACCCTCAAGACAAATGACCCCCATCCCATGGGAGTAATAAGAGC
AGTGGCAGCAGCATCTCTGAACATTTCTCTGGATTGCAACCCCATCATCCTCAGGCCTCTC

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FIGURE 444

MWQLLLPTALLLLVSAGMRTEDLPKAVVFLEPQWYSVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASSYF
IDAATVNDSGEYRCQTNLSTLSDPVQLEVHIGWLLLQAPRWVFKEEDPIHLRCHSWKNTALHKVTYLONGKDRKY
FHHNSDFHIPKATLKDSGSYFCRGLVGSKNVSETVNITITQGLAVSTISSFSPPGYQVSFCLVMVLLFAVDTGL
YFSVKTN I

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FIGURE 445

GCAGTTCAGACCCCCACACCCATCAAAGAGCCGCTCCTCCCCCGCAGGCGCCTTCGCCGCCTCCCTCCCTT
CCTTTCCTTTCCGCTCCTCTTCCGACCTGTCCACCCGGGAGGAAGGGAGCTGGAAAGGGGGCGGAAACCTCTCCC
CTCCAAAAAGCACAAACAAAACCTGTTTCAGTGCAGGAGGAGCCGGGTTTCGCCCTGCCGACAGCGGGGGGCTTTGTT
CCCCGAGTTGTTTTCCTGCCATTTGACCTGTGAGCTGCTGGGGAAACGCTGCTGTTGACCTTTGGTTGAACTGC
TAAGGCGATTTTGCTGATTTTTCTTTCTTTTCCGCGAGGGCTGTCTTTTGCTCCTCCAAATGAGCCCAGTCCCC
CTCCCTTCTCCCCAAAGCGCTCCAAGAGAAAGTGCCAGGAAGGGGCTTGTCCCGGAAGGCCTGGCGGCTGAGCGG
GGCCAGGTCTGTTAGGCCACCAGGGTGGGCGTCCGCGCCATTGTTTGAGCTTGTGCGGCTGGTGGGAGAGAT
GAGGGCAATTCTCTGGGACGCAAGTCCCCCTCGAATGGCCGGGGCTGGCCGGGATGTTCCCGCACGGCGCTGCC
CTCGAGTCCCCCGATGGAGAGCGCGGGCGCGCCTTCCTTCGCTGGCGTCCAAACCCGGGACCAGCTAGAACACA
GCAGGGCTGGGACTGGGTTCAGCCCCACGTGGAGTCTGGATTGTTTTGTTGTGTTTTGCTTTCTTCTCTGGAA
GAAATCCCGAGGGGACCGCCCTAGAGCGGCAGCTCCAGGACCTCGGCCCTTGGGCTTCCGGGGGTGCAGCCACTT
AGGCCCCGCTCCCGGGGAGAGAGGGATTATTTTTTAAGATTATCCCCAGGGCGCGCGGCATTTCCCTGTCCCTC
GTGAATCCCGTTGAGAGTCTCCTCCCTCCCAACCTCCTCCATTTCCCCAGCCAGACCATTGAGAGCCCTGGAGA
TTCTGGGCGAGGCTAGTGAAGTGGGTAGTACAGGCCCTTAGCCCCACCATTTGCTCTCTGTCTTTCAGTTCCCCAG
GAGGGCAATGGCATCAAACAGCACAGCTCTGGGGGATGTCAATATTGCATACCTTTTCTACCTAAAGGGAAAATG
ACTCGCTTTTCTGCTTGCAATATGGTAGTTTCTGCTTACAAATGTAATACAATGCCCATGACAGCCAAGGACTG
GAAGCATAAGTTGCTAGGTCTTACAGGTGATTTTTTACAATGAAGCAAACCTACTATGTTAGACACCATTTACAT
TGGATGTCTCCAATAACAAAAGTAACTAAAGACAGATGTAGGTGTAAATTGAGAGTGAAATTTGACCCCTTTAGA
CCGTCACAACCTTCTTGGGCTTATCCTGGGTGCTTATAGGAGAGGTGGGCTCCACCCACAAAAATGGACTGCTCA
GAAAAATGAGGGAGAGAGAAAGGGTGGCCACTTCCCGAGCCAAGAAATTCCTTGAAAAAAAATCAGAACATCTG
AAACCAGAGAGCCGATTTTCTTACCGGGAGGCGAGTTCCTGGCTAACGAAGAGGAAGCACGATGGGAAGAAAAGTT
CACTCCAACGGAAGCCAGTTTGCTGAACATAGCAGATCGCCCAGGAGGACTGGGAGAGACTGCAAAACAGTTCGA
GCCCCAGCATGGCGTTAGGTGTGAGCCAGCTGGCAGGAAGGTCCAGGTGTCTGTGTTTCAGAGTCTCAAGCGGC
TATGAGAGGTTTTCTCCGAGTACCCAGAATTCTGTTCTAAAACCAAGGCCCTGGCAGCCATCCCAACCCCGGTT
CCCCCAGTGCCACAGAGCCCTTGGACCTGGGCTGCAGCTCCTGTGGGACCCCACTACACGACCAGGGGGTCTCT
GTGGAGATCCTTCCCTTCTCTACCTCGGCAGTGCCTACCATGCTGCCCAGAGAGACATGCTGGACGCCCCGGG
ATCAGGCTCTGTTGAATGTCTCCTCGGACTGCCCAAACCACTTTGAAGGACACTATCAGTACAAGTGCATCCCA
GTGGAAGATAACCACAAGGCCGACATCAGCTCCTGGTTCATGGAAGCCATAGAGTACATCGATGCCGTGAAGGAC
TGCCGTGGGCGCGTGTCTGGTGCAGTGCAGGCGGGCATCTCGCGGTGCGCCACCATCTGCCTGGCCTACCTGATG
ATGAAGAAACGGGTGAGGCTGGAGGAGGCCTTCGAGTTCGTTAAGCAGCGCCGAGCATCATCTCGCCCAACTTC
AGCTTCATGGGGCAGCTGCTGCAGTTCGAGTCCCAGGTGCTGGCCACGTCTGTGCTGCGGAGGCTGCTAGCCCC
TCGGGACCCCTGCGGGAGCGGGGCAAGACCCCCGCCACCCCACTTCGCAGTTTCGTCTTCAGCTTTCCGGTCTCC
GTGGGCGTGCAGTCCGCCCCCAGCAGCCTGCCCTACCTGCACAGCCCCATCACCACCTCTCCAGCTGTTAGAGC
CGCCCTGGGGGCCCCAGAACCAGAGCTGGCTCCCAGCAAGGGTAGGACGGGCCGATGCGGGCAGAAAGTTGGGA
CTGAGCAGCTGGGAGCAGGCGACCGAGCTCCTTCCCCATCATTTCTCCTTGGCCAACGACGAGGCCAGCCAGAAT
GGCAATAAGGACTCCGAATACATAATAAAAGCAAACAGAACACTCCAACCTAGAGCAATAACGGCTGCCGCAGCA
GCCAGGGAAGACCTTGGTTTGGTTTATGTGTGAGTTTCACTTTTCCGATAGAAATTTCTTACCTCATTTTTTTAA
GCAGTAAGGCTTGAAGTGATGAAACCCACAGATCCTAGCAAATGTGCCCAACCAGCTTTACTAAAGGGGGAGGAA
GGGAGGGCAAAGGGATGAGAAGACAAGTTTCCAGAAAGTGCCTGGTTCTGTGTACTTGTCCCTTTGTTGTCTGTG
TTGTAGTTAAAGGAATTTTCAATTTTTTAAAGAAATCTTCGAAGGTGTGGTTTTTCAATTTCTCAGTCACCAACAGAT
GAATAATTATGCTTAATAATAAAGTATTTATTAAGACTTTCTTCAGAGTATGAAAGTACAAAAAGTCTAGTTACA
GTGGATTAGAAATATATTTATGTTGATGTCAAACAGCTGAGCACCGTAGCATGCAGATGTCAAGGCAGTTAGGAA
GTAAATGGTGTCTTGTAGATATGTGCAAGGTAGCATGATGAGCAACTTGAGTTTGTGCCACTGAGAAGCAGGCG
GGTTGGGTGGGAGGAGGAAGAAAGGAAGAATTAGGTTTGAATTGCTTTTTTAAAAAAAAGAAAAGAAAAGAC
AGCATCTCACTATGTTGCCAAGGCTCATCTTGAGAAGCAGGCGGGTTGGGTGGGAGGAGGAAGAAAGGAAGAAT
TAGGTTTGAATTGCTTTTTTAAAAAAA

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FIGURE 446

MGRKVHSNGSQFAEHSRSPRRITGRDCKPVRAPSMALGVSQLAGRSRCLCSESQGGYERFSSEYPEFCSTKALAA
IPPPVPPSATEPLDLGCSSCGTPLHDQGGPVEILPFLYLGSAYHAARRDMLDALGITALLNVSSDCPNHFEGHYQ
YKCIPVEDNHNKADISSWFMEAIEYIDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKRVRLEEAFEFVKQRRSI
ISPNFSGMQLLQFESQVLATSCAAEAASPSGPLRERGKTPATPTSQFVFSFPVSVGVHSAPSSLPYLHSPITTS
PSC

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FIGURE 447

ICTTGCCCTTCCGGCCCGGCGCCCGATTTCGCGCTTCCGACCCAGCTGTGGGCTGCGCCCCACGCCAGCCCGCGCC
CGCGCATGGCTGCCGCCGGGGCCAGGCCTGTGGAGCTGGGCTTCGCCGAGTCGGCGCCGGCGTGGCGACTGCGCAG
CGAGCAGTTCCCCAGCAAGGTGGGCGGGCGGGCCGGCATGGCTGGGCGCGGCCGGGCTGCCGGGGCCCCAGGCCCT
GGCCTGCGAGCTGTGCGGCCGCGCGCTCTCCTTCCTGCTGCAGGTGTATGCGCCGCTGCCTGGCCGCGCCGGACGC
CTCCACCGCTGCATCTTCCTCTTCTGCTGCCGCGAGCAGCCGTGCTGTGCCGGCCTGCGAGTTTTTAGGAATCA
GCCAGGAAAAACGATTTTTACTCATATGAGCCACCTTCTGAGAATCCTCCCCAGAAACAGGAGAATCAGT
CTCCAGCTTAAGTCTGGTGCTCATCTCTGCAGGGTTTGTGGCTGTTAGGCCCCAAAACGTGCTCCAGATG
ACAAAAGCATATTACTGCAGCAAGGAGCATCAGACCCTAGACTGGAGATTGGGACATAAGCAGGCTTGTGCACA
TAGATCATCTGGACCATATAATTCCAGACCACAACCTTCCTTTTCCAGAATTTGAAATTGTAATAGAAACAGA
TGAGATTATGCCTGAGGTTGTGGAAAAGGAAGATTACTCAGAGATTATAGGGAGCATGGGTGAAGCACTTGA
AAGAACTGGATTCCATGGCAAAACATGAATCCAGGGAAGATAAAATTTTTCAGAAGTTTAAAACTCAGATAGC
TGAACCAGAACAGATTCTTAGATATGGCAGAGGTATTGCCCCCATCTGGATTTCTGGTGAAAATATTCTCTCA
AAAAGGATATTCCAGATTGCCCCCTGTGGTGCCAAGAGAATATTGGAATTCCAGGTCATGCCTCAGCTCCTAAA
ACCTGAAGGCTGACAGACTGGGCAAGAGCATTGACTGGGGCATCCTGGCTGTCTTACCTGTGCTGAGAGCTG
CAGCTTGGGTACTGGCTATACAGAAGAATTTGTGTGGAAGCAGGATGTAACAGATACACCGTAAAGGCATCTTAA
AGCCTTGAAAAATGTTAATAATCTTTTATACCTTGCAATTCCATTTCTGGGATTTTATCCTAAGGAAATACTTAT
ACCAAAAATAGAGGTGCAGAGATGTTGACAGATTGCTTACACAGTGTCTACTTATTAGTGAAACAAAAGTGTCCA
GTGACAGGGAATTAAATAAATTTTGGTACATCCACA

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FIGURE 448

MAAAGARPVELGFAESAPAWRLRSEQFP SKVGGRPAWLGAAGLPGPQALACELCGRPLSFLLQVYAPLPGRPDAF
HRCIFLFCCREQPCCAGLRVFRNQLPRKNDFYSEPPSENPPPETGESVCLQLKSGAHLRCRVCGCLGPKTCSRCH
KAYYCSKEHQTLDWRLGHKQACAQPDHLDHIIPDHNFLFPEFEIVIETEDIMPEVVEKEDYSEIIGSMGEALEE
GLDSMAKHESREDKIFQKFKTQIALEPEQILRYGRGIAPIWISGENIPQEKDIPDCPCGAKRILEFQVMPQLLNY
LKADRLGKSIDWGILAAFTCAESCSLGTGYTEEFVWKQDVTDP

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FIGURE 449

CCTTCAGCATAAAAGCTGATCCACAAACAAGAGGAGCACCAGACCTCCTCTTGGCTTCGAGATGGCTTCGCCACA
CCAAGAGCCCAAACCTGGAGACCTGATTGAGATTTTCCGCCCTTGGCTATGAGCACTGGGCCCTGTATATAGGAGA
TGGCTACGTGATCCATCTGGCTCCTCCAAGTGAGTACCCCGGGGCTGGCTCCTCCAGTGTCTTCTCAGTCCTGAG
CAACAGTGCAGAGGTGAAACGGGGGCGCCTGGAAGATGTGGTGGGAGGCTGTTGCTATCGGGTCAACAACAGCTT
GGACCATGAGTACCAACCACGGCCCGTGGAGGTGATCATCAGTTCTGCGAAGGAGATGGTTGGTCAGAAGATGAA
GTACAGTATTGTGAGCAGGAACCTGTGAGCACTTTGTGCGCCAGCTGAGATATGGCAAGTCCCGCTGTAAACAGGT
GGAAAAGGCCAAGGTTGAAGTCGGTGTGGCCACGGCGCTTGGAATCCTGGTTGTTGCTGGATGCTCTTTTGCGAT
TAGGAGATACCAAAAAAAGCAACAGCCTTGAAGCAGCCACAAAATCCTGTGTTAGAAGCAGCTGTGGGGGTCCCA
GTGGAGATGAGCCTCCGCCATGCCTCCAGCAGCCTGACCCTCGTGCCCTGTCTCAGGCGTTCTCTAGATCCTTTC
CTCTGTTTCCCTCTCTCGCTGGCAAAAGTATGATCTAATTGAAACAAGACTGAAGGATCAATAAACAGCCATCTG
CCCCTTCAAAAAAAAAA

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FIGURE 450

MASPHQEPKPGDLIEIFRLGYEHWALYIGDGYVIHLAPPSEYPGAGSSSVFSVLSNSAEVKRGRLEDVVGCCYR
VNNSLDHEYQPRPVEVI ISSAKEMVGQKMKYSIVSRNCEHFVAQLRYGKSCKQVEKAKVEVGVATALGILVVAG
CSFAIRRYQKKATA

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FIGURE 451A

AGGGGGCGGCGCTCCCGGCCCATCCCTTAGCCCCGCGCGGCCGTGTGGGCCGGAGGCTGCCTGCACCGCGTCAG
GGAGGCCGCGCTAGAAACCCTCCCTCCAGAAGAAAGCCGATCCAGTTCAGGTGGGGTCTTCTCGGTTGCGTA
CCTGGCTGGAGCCGAGCTGGTGGGCGGCCGCGAGCCGCGTTTCTGGTGATGACAGCCCCGAAATGAAAGCAGCG
CGGCCGCCGCTCCGAGGGCTGCAGGGAGATCAGCGTCCAGCAAATAAGAAGCAAGTCTGGACCCGGAGGAGGA
GGAGCGGCCGAGCATCTCTCTGCTCCGCCGTGTCTTTAGATGAGCACTCCCGGCCGAGCCGGAGGTGGATC
CGCAGAGCTGCCTCTGGGCGCCTGACCCCGCGCTGACATCACAACCTGTGACAGGCGCATCACGCCGGTACCTG
CTCCCGGCCGCTGCCCGTCTCCAGCCTCTTTGTATGCCGAGACATGGCCAGCCAGCAGGATTCTGGGCTTCTT
TGAGATCAGTATCAAATATTTACTGAAATCCTGGAGTAATACTTCTCCCGTTGGCAACGGTTACATCAAGCCTCC
GGTTCCACCTGCTTCTGGCACGCACAGGGAGAAAGGGCCGCAACCATGCTACCCATCAATGTGGACCCAGACAG
TAAACCAGGAGAATATGTCCTCAAAGTTTATTTGTCAACTTCACCACTCAGGCTGAACGCAAGATTTCGTATCAT
TATGGCAGAGCCCCCTGGAAGCCATTGACGAAATCTCTGCAACGTGGAGAAGACCCCAATTTGATCAGGTCAT
CAGCTCAATGAGCTCCCTTTCTGAGTACTGCCTGCCCTCCATTCTACGTACATTATTTGACTGGTATAAAAGGCA
AAATGGCATTGAGGATGAATCACATGAATACAGACCAAGAACAAGCAATAAATCAAAAAGCGATGAACAACAGCG
AGATTATTTAATGGAAGACGGGACCTCGCCATTGATTTTATTTTTCTTTAGTATTAATAGAAGTTTTGAAACA
GATTCCACTTCATCCTGTAATAGACAGTTTAATACATGATGTTATTAACCTGGCTTTCAAGCACTTTAAATACAA
AGAAGGTACCTTGGTCCCAACACTGGCAATATGCATATTGTGGCAGACCTGTATGCAGAAGTCATTGGAGTGTT
GGCACAAGCCAAATTCCTGTGTAAAGAAGAAATTTATGGCGGAGCTAAAAGAATTACGGCACAAAGAGCAGAA
CCCATATGTGGTTCAAAGCATTATCAGCTTAATAATGGGCATGAAATTCCTTCGAATTAAGATGTATCCAGTGGA
GGATTTTGAGGCCTCTCTTCAGTTTATGCAGGAATGTGCACATTACTTCTCGAGGTCAAAGACAAAGATATCAA
GCATGCCTTGGCTGGGCTTTTTGTTGAAATACTTGTTCAGTTGCTGCTGCTGTTAAAAATGAAGTAAATGTTCC
CTGCCTTAGAAATTTTGTTGAAAGCCTGTATGACACCACGCTGGAACCTTTCTTCTCGAAAGAAGCATTCTTGGC
CTTGTACCCCTGGTGACCTGTTTGCTCTGTGTGTCAGTCAGAAGCAGCTGTTTCTGAACAGGTGGCACATTTTCTT
CAACAACCTGCTTGTCCAACCTTAAAAACAAAGATCCCAAGATGGCTCGAGTTGCACTGGAATCTCTCTACAGATT
ACTTTGGGTTTACATGATTGCAATTAATGTGAAAGCAACACAGCTACTCAGAGCCGACTTATAACCATCATCAC
AACACTTTTCCCAAAGGGTCCCGCGGTGTGGTACCAAGGGACATGCCTCTGAACATCTTTGTGAAATCATCCA
GTTTCATTGCCCAGGAACGTTTAGATTTTGCAATGAAAGAAATCATTTTCGATTTTCTTTGTGTGGGAAACCAGC
AAAAGCATTTCAGTCTCAACCCAGAGAGAATGAACATTGGTTTACGGGCATTCTTGGTCATAGCTGATAGCTTGCA
GCAGAAAGATGGGGAACCTCCCATGCCGTTACAGGAGCGGTTCTTCTTCAGGAAACACGTTAAGAGTAAAGAA
AACATATTTGAGTAAACACTAACTGAAGAGGAAGCCAAAATGATAGGCATGTCCTTATATTACTCTCAAGTACG
AAAAGCTGTAGACAACATTTTAAGGCACCTTGATAAAGAAGTAGGAAGGTGTATGATGCTGACTAATGTACAGAT
GTTAAACAAAGAACCGBAAGACATGATCAGGGTGAGAGAAAGCCAAAAATAGATCTTTTCAGGACCTGTGTTGC
TGCTATTCTCGACTGCTTCTGTATGGGATGTCAAACCTTGAACCTTATTGACTTACTGGCTAGGCTCTCTATTCA
TATGGATGATGAATTGCGACATATTGCACAAAATCTCTTCAGGGTTTACTTGTGACTTCTCAGATTGGAGGGA
AGATGTACTATTTGGCTTTACCAACTTCCTGCTCCGGGAAGTAAATGATATGCATCACACACTCCTTGATTTCGTC
CCTGAAGTTGCTGCTGCAGCTGCTCAGCCAGTGGAACTAGTCATCCAGACACAAGGAAAAGTCTATGAACAAGC
CAACAAAATCAGAAATTCAGAGCTCATCGCAAATGGCTCCAGTCACAGAATTCAGTCGGAACGAGGTCCCCACTG
CAGTGTAATCCACGCTGTAGAAGGTTTTGCTCTGGTTTTACTCTGCAGTTTCCAGGTGGCCACACGCAAACCTGTC
CGTTTTTAATACTCAAGGAAATTCGAGCGTTGTTTATTGCCCTGGGGCAGCCTGAGGATGACGACAGGCCGATGAT
TGATGTCATGGATCAGCTAAGTTCTTCCATTCTAGAAAGTTTTATTTCATGTAGCAGTTTCGGATTTCAGCAACATT
ACCACTCACCCACAATGTGGATCTGCAGTGGTTGGTGGAAATGGAACGCAGTCCTGGTCAATAGCCATTATGATGT
GAAAGCCCTTCCCATGTCTGGATATTTGCACAGTCTGTCAAAGACCCCTGGGTCTCTGCCTCTTCAGCTTCTCT
CCGGCAGGAGAACTTACCCAAGCACTGCCCCACAGCCCTCAGCTATGCCTGGCCTTATGCCTTCACTCGGCTCCA
GTCGGTGATGCCTCTGGTGGACCCAAATAGCCCAATTAATGCCAAGAAACCAGCACTGCCGGCAGCGGAGACAA
CTATGTTACTTTGTGGAGAAATTACCTAATTCTTTGTTTTGGAGTTGCAAACCCAGTATTATGAGCCCAGGACA
CTTAAGAGCTTCCACTCCAGAAATAATGGCGACCACACCTGATGGTACAGTGAGCTACGATAACAAGGCCATAGG
CACCCCATCGGTGGGAGTTCTGTAAAGCAGTTGGTGCCTTTGATGAGACTAGAGAGCATTGAGATCACAGAGTC
CTTAGTTTTAGGATTTGGAAGAACAATTCCTTGTTCAGAGAATTGGTAGAAGAACTTCATCCATTAATGAA
AGAAGCTCTGGAAGAAGACCAGAGAACAAGAAACGCCGAGAACTGTTAAGGCTACAACACTTCTC

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FIGURE 451B

AATTTTTGAACTTTTGGCTGATGCTGGTGTAATAAGTGACAGCACAAATGGAGCCCTAGAGCGGGATACTTTAGC
CCTGGGAGCTTTGTTCTTAGAATATGTGGACTTGACCCGCATGCTCCTAGAAGCTGAAAATGACAAAGAAGTTGA
AATTCCTTAAAGATATCCGGGCACATTTTAGTGCAATGGTGGCCAACTTGATTCAGTGTGTTCCAGTTTACCACCG
AAGATTTCTCTTCCCCCAGCAAAGTCTGAGGCACCACCTTTTCATCTTATTACGCCAGTGGGCAGGACCCCTCAG
CATTATGTTCACTCCTCTGGATCGTTACAGTGACAGAAATCATCAGATTACAAGATATCAGTATTGTGCATTAAA
AGCAATGTCAGCAGTACTGTGCTGTGGCCCTGTCTTTGACAATGTGGGCCTTTCCCAGATGGCTACCTATATAA
ATGGCTTGACAACATTCTGGCTTGTCAAGATTTACGAGTTCATCAACTTGGCTGCGAAGTTGTTGTCTTGCTACT
GGAACCTTAATCCTGACCAAATAAATCTTTTAACTGGGCAATTGACCGATGCTACACAGGTTCTTACCAACTTGC
ATCTGGCTGCTTCAAAGCCATAGCAACTGTGTGTGGAAGCAGGAACTATCCCTTCGACATAGTGACATTGTTAAA
CCTTGTTCTATTCAAAGCCCTCTGACACCAACAGAGAGATTTATGAAATCTCCATGCAGCTCATGCAGATCCTTGA
AGCAAAGCTTTTTGTATACTCAAAGAAAGTCGCTGAGCAAAGACCGGGAAGTATTCTCTATGGAACACACGGCCC
GCTGCCACCCCTCTACAGCGTGTCACTCGCCCTCTTGTCATGTGAGCTGGCCAGGATGTACCCTGAGCTCACACT
CCCCCTCTTCTCAGGTAAGCCAGCGATTCCCCACAACACACCCCAACGGGCGCCAGATCATGCTTACCTACCTGC
TGCCCTGGCTGCACAACATCGAGCTGGTGGACAGCAGGCTCCTCCTCCCGGTCGAGCCCCAGCAGCCAGAGGA
CGAAGTCAAGGACCGGGAAGGTGACGTGACTGCTTCTCACGGGCTGAGAGGAAATGGCTGGGGCTCTCCAGAAGC
CACGTCACTGGTCTGAACAACCTCATGTACATGACGGCCAAGTATGGAGATGAAGTTCTTGGGCCAGAAAATGGA
AAATGCTTGGAATGCTTTAGCCAACAATGAGAAATGGAGCAAACCTGAGGATCACCTTGAGTTCTCTGATTAG
CCTCTGTGGGGTCAGCAGCGACACAGTTCTCCTACCCTATATTAAAAAAGTGGCAATATACTTGTGCCGTAACAA
CACCATTCAAACCATGGAAGAGCTTCTCTTTGAGCTGCAGCAGACAGAACCCGTGAACCCCATCGTCCAGCATTG
TGACAACCCGCCCTTCTACCGCTTACGGCCAGTAGCAAGGCTTCCGCAGCAGCCTCAGGAACCACTCTAGCAG
CAATACAGTGGTTGCTGGCCAGGAAAAATTTCCAGATGCTGAGGAGAACAAGATATTGAAAGAATCTGATGAAAG
GTTTAGTAATGTATCAGAGCCACACTCGCCTCGAGTCAAGATACAGCAATAGCTCTGGAGGATCCTACGATGA
AGATAAAAATGATCCAATTTCTCCCTACACGGGCTGGTTGCTGACTATTACAGAGACCAAGCAGCCGCAGCCCTT
ACCGATGCCTTGTACTGGAGGATGCTGGGCCCCCTGGTTGACTATCTCCCGGAGACCATCACTCCCCGGGGGCC
ACTCCACAGGTGCAATATTGCTGTAATTTTATGACTGAAATGGTGGTGGATCACAGTGTACGAGAAGACTGGGC
GCTTCATCTACCATTATTACTTCATGCTGTCTTCTTAGGTTTAGACCACTACCGGCCTGAAGTCTTTGAACACAG
CAAAAACTGCTTCTTACCTCTTGATTGCCCTCTCTTGCAACAGCAATTTCCATTCCATTGCTTCCGTGCTCCT
GCAGACCCGAGAGATGGGTGAAGCTAAGACTTAACCGTGCAGCCAGCCTACCAACCTGAATATCTCTATACAGG
TGGCTTTGACTTCTGAGAGAGGACCAGTCATCCCCGGTGCCTGACTCAGGGCTTAGTTCAAGCTCCACCTCCTC
TAGCATCAGTCTGGGAGGCAGCAGTGGAAACCTCCACAGATGACCCAGGAGGTAGAAGATGTGGACACAGCTGC
TGAAACAGATGAGAAGGCAAACAAGCTCATTGAGTTTCTCACGACCAGGGCATTGTTGCCACTTTGGTGCCATGA
AGACATCACACCTAAAAATCAAATTCAAAGAGTGCTGAACAGCTACTAATTTTCTACGTCAGTTGTATCTGT
ATTTAAAGATTCAAATCAGGCTTCCATCTGGAGCACCAGTTGAGTGAAGTTGCATTGCAGACAGCCCTCGCAAG
CTCTTCAAGGCACTATGCTGGTGGTCCCTTCCAGATATTCCGGGCCCTCAAGCAACCTCTGTCAGCACATGCCTT
ATCTGACCTTCTCTCAAGATTGGTGGAGGTGATAGGAGAACATGGAGATGAGATTACAGGGTTATGTAATGGAAGC
GCTCCTAACCTTGGAGGCGGCTGTGGATAAATTGTCTGACTGCTTGAAGAACAGTGACCTCCTAACTGTATTGTC
CCGCTCTTCTCACCAGATTTAAGCTCCAGCAGTAACTAACAGCAAGCAGAAAGAGCACAGGACAACATAACAT
GAACCCGGGAACCACCAGCGGCAACACCGCAACTGCCGAACGGAGCCGGCATCAACGAAGCTTCTCTGTGCCCAA
GAAGTTTGGTGTATCGACCGATCCTCTGACCCACCTCGAAGTGCCACACTGGACAGAATTCAGGCTTGTACCCA
ACAAGGCCTCTCTCAAAAAACCAGAAGCTCATCTCCTTGAAGGACAGTCTCACGGACCCATCCACATAAACCA
TCCACCAACCTGCTGGCCACCATATTCTGGGTACAGTGGCCTTGATGGAGTCTGATTTTGAGTTTGAATACTT
AATGGCCTTAAGGCTGTTGAGCAGACTACTGGCACATATGCCACTCGATAAGGCTGAGAACCAGAGAAAAGCTTGA
GAAACTCCAGGCACAGCTGAAGTGGGCCGACTTCTCCGGGCTGCAGCAGCTGCTGCTGAAAGGATTACATCCCT
CACCACCACAGACCTGACCCTGCAGCTCTTCAGTCTGCTGACACCAGTGTCCAAAATATCCATGGTGGATGCATC
CCACGCTATTGGGTTTCCACTGAATGTCTTGTGTCTCCTGCCTCAGCTGATTCAGCATTTTGAAAATCCCAATCA
GTTCTGTAAGGATATAGCCGAAAGGATTGCTCAGGTTTGTITAGAAGAGAAGAACCCCAAACCTTCAAATCTTGC
ACATGTATGACTCTTTATAAAACGCACAGCTACACGAGGGACTGTGCCACGTGGGTCAATGTGGTCTGTGATA
CCTTCATGAAGCATATGCTGACATTACCTTGAATATGGTTACCTACCTGGCAGAGCTGCTGGAGAAGGGCCTCCC

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FIGURE 451C

TAGTGTGCAGCAGCCCCCTGCTCCAGGTGATCTACAGTCTTCTCAGCTACATGGACCTTTCTGTCTTCCTGTCAA
ACAGTTCAATGTGGAAGTTCTGAAGACAATTGAAAAATATGTGCAAAGTGTTCACTGGAGAGAAGCTCTGAATAT
CTTGAAGCTGGTAGTTTTCTCGGTCAGCCAGCCTTGTTTTACCTTCATACCAGCACAGTGACCTCTCAAAAATAGA
AATACATCGAGTGTGGACTAGTGCTTCCAAGGAATTACCTGGGAAAACCCTGGACTTCCACTTCGATATTTCCGA
TCCAATCATCGGGAGGCGGTATGATGAGCTGCAGAATTCTTCTGGGCGTGATGGGAAGCCCAGGGCCATGGC
ACCCGGAGCACATCTTCCACTTCCTCAGGCTCCAACCTCCAACGTCCTTGTTCCAGTGAGCTGGAAAAGGCC
GTATTCTCAGAAGAGAACAAAAGAGAAGTTGGTACATGTCCTTTCTCTGTGTGGCCAAGAAGTAGGATTGAG
AAAAATCCATCAGTGATTTTTTCATCGTGTGGGGATCTGGATCTGCTTGAGCACCAGACAAGCTTGGTATCTTC
AGGACGGTGCCCGAGAGCAGGAGAACATGGATGACACAAACAGCGAGCAGCAGTTTAGAGTCTTCAGAGACTT
CTTCTCTAGATGTGGAGCTGGAGGATGGAGAGGGTGAGAGTATGGACAATTTCAACTGGGGAGTGCGCAGACG
CTCTGGACAGCCTGGATAAGTGTGATATGCAGATTCTGGAGGAGCGCCAACCTGTCAGGAAGCACTCCTAGCCT
A1AAAATGCACCATGAGGACTCCGATGAATCATCCGAGGAGGAGGACCTCACAGCCAGCCAGATCCTGGAGCA
TAGACCTAATCATGACTCTCTCCCCCTCTGAAGAGACGAATCCCATGGAGCTGCTCACCACAGCCTGTGACTC
ACCCCTGCAGAACCTCATTCCCTTTAACACCAGAAATGTCCAGCTTTGATGCTTCCTTGCCCTGATATGAATAATCT
CAGATTTCTGAGGGTTCAAAGGCTGAAGCTGTTCTGTGAGGAGGAGGACACCACCGTGATGAGGATGATCTTTC
TAGTTCATCAATGAACCTCCAGCAGCTTTTGAATGCAGCGACAGCTTTAGCCTGGACATGACTGAGGGGGAAGA
AAAAGGCAATCGGGCACTGGACCAGTTTACCCTGGCGAGCTTTGGAGAAGGTGACAGGGGAGTCTCTCCCCCTCC
CTCGCCCTTCTTCTCAGCCATCCTTGCCGCCTTTAGCCCGCAGCCTGTGACGATGCCGAGGAGGCTTGCGCAG
CCACATCAACCAGCTTATGTGTGACTCAGATGGCTCCTGTGCTGTGTATACATTTTATGTGTTCTCCTCCTTGTT
TAAGAATATTGAGAAAAGGTTCTGCTTCTTAACCTGTGATGCAGCCAGTTACCTTGAGATAACCTCCGGGGAAT
CGGATCCAAATTTGTGAGCTCTTCCCAGATGCTCACCTCCTGCTCTGAATGTCCTACACTTTTTGTGGATGCCGA
GACTCTCCTTTTATGTGGACTTCTGGACAAGCTCAAGTTCAAGTGTGTTAGAACTGCAAGAATATTTGGATACCTA
CAACAACAGGAAAGAGGGCCACACTCTCTTGCTTGCAAATTGTAAGGCAACATTTGCAGGGGGATCAAGAGATGG
AGTAATTACCTGTCAACCAGGGGACTCCGAAGAAAAGCAATTGGAAGTGTGTCAGAGATTATATAAGCTACACTT
CCAGCTGCTATTGCTTTTTTCACTCCTACTGTAAGCTCATCGGCCAGGTGCACGAAGTTAGCTCCATGCCAGAGCT
GCTGAATATGTCCAGGGAAGTGAAGTACCTAAAGAAACACCTGAAGGAAGCCAGTGCAGTCAATGCAGCTGACCC
TCTCTATTGACAGCGCGGTGGTCCGAGCCACCTTCACGTCCACTGAAGCAGCCATCCAGTCCATGCTGGAGTG
CCTGAAGAACAACGAAGTCCGCAAGCTTTGCGGCAGATCAGGGAGTGCAGAAGTCTGTGGCCCAATGACATCTT
TGGAAGCAGTTCTGATGATGAGGTCCAGACACTACTGAATATTTATTTCCGTCACCAAAGCTGTGGAGCTGAACATGGAGAT
TACTTATGCCCTGGTGGGGTCTAACCAGAGCCTGACCGAGATCTGCACCAAGCTGATGGAGCTGAACATGGAGAT
CCGGGACATGATCCGAGGGGCCAGAGTTACCGAGTCTCTACTACTTTTCTTCCAGACTCCAGTGTCTTCTGGCAC
TAGTCTCTGACAGGAGCCTCCTGTCCCCACTGGGTTCAAACTGCAGTGTGCCATGCTGGGGCAACGTCATTCA
GTGTCTTCTCGGCCTTCAAAGGCTTGAGACAGACTGTTCTCCCTCTTGTTACCTGTAGGGCTTTTTCTAAAGAGG
ATGGCAGAACTTCCAACGTGTAGCAATACTATAAGAACCAAGGTAGCTTAGAACGTCCTGGACAGACTCCACTCA
TCATGCTGTGTGGCACAAATGTGTTACATTTGACCGAGCATATGCAACTCGCTACTGAAGAAGTGACTTCCGTTG
CATACCAAAGCCGACTACACTGAACAGTACCTTCTTTCTAGAAACAATTTTAGATTGGCAAAAGTGCAATGTTT
TCTTCACTCAAAAAATTTTATATTCTCAAACATGTATATTCTTTCCCTGTCTTGTTCCATTTTCTTTTCTTTTTT
CTTTTTTCTTTTTCTTTCTTTCTTCTGTTGGGCTGAGAAAGGGGCAGGCAAAATGAAGCTGGCCACTGAAAAGTGAAG
ATGGTCAAAGCTGACAGCCTGTGTATGTGAAAAGGGAATTGTAAATGGACTGCAATGTAATGTACACTGTAATT
TGAATACAATTACTGTATCTAAAAGGAGCTGCTATGAAGTACCTTTCTTATGTTGCTAGGCTACTGTTTCTGAAA
GCCCTGGATCTCTTGCACCAAAAATGGTCCAGATAGACTCTTTTAAAGGATCTTGGCTGCTTTTTTACTAGAAGG
TTGCTTTTATGAGCATATTTATACTGCTGAAGGATGAGTGTTAATTTTAAATTAACCTTGCCGTTTTGTAGAGAAA
ACTATTACAAGATAAATCCAAGTCTTTTACCTGTGAGGATGCATATTTAATATCTGTTTGGATAGTCAGA
AGTAGAATCATAAAGGTAAAATATGAGTTGTTACTTTGTTTCTTCGATGTCATATTTTATGTGTAATATATATGT
AAAGGGCCATCTTAAGTTCTCTCCTTAAACTTAATGCTGTCAAGTGTTAGATGTGTGCATGTGAAGTTGTTGCA
CTGCAGAAACATATTCAGAGTTTATCTATGTAAGTTTACTCTGTAAATACATTTAAAGTTTTTGTGATGTAA
GCTTAATTGATATTCTGTTTCAAGCTTTCTTTAGACTAAAAAAGACAAA

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FIGURE 452

MASQQDSGFFEISIKYLLKWSNTPVGNNGYIKPPVPPASGTHREKGPPTMLPINVDPDSKPGYVLKSLFVNFT
TQAERKIRIIMAEPLKPLTKSLQRGEDPQFDQVISSMSSLSEYCLPSILRTLFDWYKRQNGIEDESHEYRPRTS
NKSXSDEQQRDYLMERRDLAIDFIFSLVLIIEVLKQIPLHPVIDSLIHDVINLAFKHKFKYKEGYLGPNTGNMHIVA
DLYAEVIGVLAQAKFPAVKKKFMALKELRHKEQNPYVVQSIISLINGMKFFRIKMYPVEDFEASLQFMQECAHY
FLEVKDKDIKHALAGLFEILVPVAAAVKNEVNVPCLRNPFVESLYDTTLELSSRKHSLALYPLVTCLLCVQSQKQ
LFLNRWHIFLNNCLSNLKNKDPKMARVALESYLRLLWVYMIRIKCESNTATQSRITITITLFPKSGRGVVPDRM
PLNIFVKIIQFIAQERLDFAMKEIIFDFLCVKGPKAKAFSLNPERMNIGLRAFLVIADSLQKDGEPMPVTVGAVL
PSGNTLRVKKTYLSKTLTEEEAKMIGMSLYYSQVRKAVDNILRHLDKEVGRCMMLTNVQMLNKEPEDMITGERKP
KIDLFRTCVAAIPRLPDGMSKLELIDLLARLSIHMDDELRIHAQNSLQGLLVDFSDWREDVLFGFTNFFLLREVN
DMHHTLLDSSLKLLLQLLTQWKLVIQTQGVYEQANKIRNSELIANGSSSHRIQSERGPHCSVLHAVEGFALVLLC
SFQVATRKLSVLILKEIRALFIALGQPEDDDRPMDVMDQLSSSILESFIVAVSDSATPLTHNVDLQWLVEWN
AVLVNSHYDVKSPSHVWIFAQSVKDPWVLCFLSFLRQENLPKHCPALTASYAWPYAFTRLSVMPLVDPNSPINAK
KTSTAGSGDNYVTLRNLYLILCFGVAKPSIMSPGHLRASTPEIMATPDGTVSYDNKAIGTPSVGVLLKQLVPLM
RLESIEITESLVLGFGRTNSLVFRELVEELHPLMKEALERRPENKKRRERRDLLRLQLLRIFELLADAGVISDST
NGALERDTLALGALFLEYVDLTRMLLEAENDKEVEILKDIRAHFSAMVANLIQCVPVHRRFLFPQQSLRHHLF
LFSQWAGPFSIMFTPLDRYSDRNHQITRYQYCALKAMSAVLCCGPVFDNVGLSPDGLYKWLNDILACQDLRVHQ
LGCEVVVLLLELNPQINLFNWAIDRCYTGSYQLASGCFKAIATVCGSRNYPFDIVTLLNLVLFKASDTNREIYE
ISMQLMQILEAKLFVYSKKVAEQRPGSILYGTGHPPLPLYSVSLALLSCELARMYPELTLPPLFSGKPAIPHNTPO
RAPDHAYLPAALAAQHRAGGQQAPPPGSSPSPPEDEVKDREGDVTASHGLRGNGWGSPEATSLVLNNLMYMTAKY
GDEVPGPEMENAWNALANNEKWSNNLRITLQFLISLCGVSSDVTLLPYIKKVAIYLCRNNTIQTMEELLFELQQT
EPVNPPIVQHCDNPPFYRFTASSKASAAASGTTSSSNTVVAGQENFPDAENKILKESDERFSNVIRAHTRLESRY
SNSSGGSYDEDKNDPISPYTGWLLTITETKQPQPLPMCTGGCWAPLVVDYLPETITPRGPLHRCNIAVIFMTEMV
VDHSVREDWALHPLPLLLHAVFLGLDHYRPEVFEHSHKLLLLHLLIALSCNSNFHSIASVLLQTREMGEAKTLTVQP
AYQPEYLYTGGFDFLREDQSSPVPDSSLSSSSTSSSISLGGSSGNLPQMTQEVEDVDTAETDEKANKLIEFLT
RAFGLPWCHEDITPKNQNSKSAEQLTNFLRHVVSFVKDSKSGFHLEHQLSEVALQTALASSSRHYAGRSFQIFRA
LKQPLSAHALSDLLSRLVEVIGEHGDEIQGYVMEALLTLEAAVDNLSDCLKNSDLLTVLSRSSSPDLSSSSKLTA
SRKSTGQLNMNPGTTSGNTATAERSRHQSRFSVPKKEGVIDRSSDPPRSA

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FIGURE 453

TTCCCCCCCCCCCCCCCCCCCCGCCCCGAGCACAGGACACAGCTGGGTTCTGAAGCTTCTGAGTTCTGCAGCCT
CACCTCTGAGAAAACCTCTTTTCCACCAATACCATGAAGCTCTGCGTGACTGTCCTGTCTCTCCTCATGCTAGTA
GCTGCCTTCTGCTCTCCAGCGCTCTCAGCACCAATGGGCTCAGACCCTCCCACCGCCTGCTGCTTTTCTTACACC
GCGAGGAAGCTTCCTCGCAACTTTGTGGTAGATTACTATGAGACCAGCAGCCTCTGCTCCCAGCCAGCTGTGGTA
TTCCAAACCAAAAGAAGCAAGCAAGTCTGTGCTGATCCCACTGAATCCTGGGTCCAGGAGTACGTGTATGACCTG
GAACTGAACTGAGCTGCTCAGAGACAGGAAGTCTTCAGGGAAGGTCACCTGAGCCCGGATGCTTCTCCATGAGAC
ACATCTCCTCCATACTCAGGACTCCTCTCCGCAGTTCTGTCCCTTCTCTTAATTTAATCTTTTTTATGTGCCGT
GTTATTGTATTAGGTGTCATTTCCATTATTTATATTAGTTTAGCCAAAGGATAAGTGTCTATGGGGATGGTCCA
CTGTCACTGTTTCTCTGCTGTTGCAAATACATGGATAACACATTTGATTCTGTGTGTTTTCCATAATAAACTTT
AAAATAAAATGCAGACAGTTA

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FIGURE 454

MKLCVTVLSLLMLVAAFCSAPMSAPMGSDPPTACCFSTARKLPRNFVVDYYETSSLCSQPAVVFQTKRSKQVCA
DPSESWVQEYVYDLELN

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FIGURE 455

CCACGCGTCCGCGCTGCGCCACATCCCACCGGCCCTTACACTGTGGTGTCCAGCAGCATCCGGCTTCATGGGGGG
ACTTGAACCCTGCAGCAGGCTCCTGCTCCTGCCTCTCCTGCTGGCTGTAAGTGGTCTCCGTCCTGTCCAGGCCCA
GGCCCAGAGCGATTGCAGTTGCTCTACGGTGAGCCCGGGCGTGCTGGCAGGGATCGTGATGGGAGACCTGGTGCT
GACAGTGCTCATTGCCCTGGCCGTGTACTTCCTGGGCCGGCTGGTCCCTCGGGGGCGAGGGGCTGCGGAGGCAGC
GACCCGGAACAGCGTATCACTGAGACCGAGTCGCCTTATCAGGAGCTCCAGGGTCAGAGGTCGGATGTCTACAG
CGACCTCAACACACAGAGGCCGTATTACAAATTGAGCCCCGAATCATGACAGTCAGCAACATGATACCTGGATCCAG
CCATTCTGAAGCCCACCCTGCACCTCATTCCAACCTCCTACCGCGATACAGACCCACAGAGTGCCATCCCTGAGA
GACCAGACCGCTCCCCAATACTCTCCTAAAATAAACATGAAGCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 456

MGGLEPCSRLLLLPLLLAVSGLRPFVQAAQSDCSCSTVSPGVLAGIVMGDLVLTVLIALAVYFLGRLVPRGRGAA
EAATRKQRITETESPYQELQGQRSDVYSDLNTQRPYYK

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FIGURE 457

GAATTCGCGCGCTGCTACACGCCTGGTGGGCAGCATGTCGGCAACAGCGGCTGCTCGTAAGCGGGGAAAGCCGGC
CTCTGGGGCCGGGGCTGGCGCGGGGGCCGGCAAGCGGCGGCGAAAGGCCGACTCTGCGGGGGACAGGGGCAAATC
CAAGGGTGGCGGCAAGATGAATGAGGAGATCTCCAGCGACTCTGAGAGCGAGAGCCTAGCTCCAAGGAAGCCTGA
GGAGGAGGAGGAGGAGGAGCTGGAGGAAACTGCACAGGAAAAGAAGCTGCGCTTGGCCAAGCTCTACCTAGAGCA
CTTCGCTCAGCAAGAGGAGGAGAAGGCTGAGGCCCCGTGCATTTGAGGAGGACCAGGTGGCGGGGGCGCCTGAAGGA
CTGTGCTTGAGCAGAGGGGCGAGGCTGCAGAAGTTGGTGGCAAAAGAGATCCAGGCCCCAGCCTCAGCTGACAT
CTGTTTTACGGGGGCACCACTCTCTATCACATGTTTGGTCGTCACCCCGATGACTCAGCCATCTTCTCTGC
CTCAAAGACTGCAGCATCATTAAAGTGGAGCGTGGAGAGTGGACGGAAGCTGCATGTGATTCTCGAGCCAAGAA
CTGTGCCGAGGGAAAGCCCCCTGGCCACAGCAGCCACGTCCTCTGCATGGCCATCTCCTCCGACGGCAAGTACCT
CTCTGGTGACCGCAGCAAGCTCATTCTCATTGGGAGGCCAGAGCTGCCAGCACTTGTACACCTTCACAGG
CTCGGGATGCAGTGTCTGGGTCTGGCATTCCGCAGAGGCACCCACCAGCTCTACAGCACATCCACGATCGCTC
CTGAAGGTGTGGAATGTGGCAGAGAACTCCTACGTGGAGACGCTCTTCGGACACCAGGACGCTGTGGCTGCACT
CTATGCCTTGAGCCGGGAGTGCTGTGTGACGGCTGGGGGCGGGATGGGACTGTACGTGTGTGGAAGATCCCCGA
CTAGTCCCAGCTTGTCTTCTATGGCCACCAGGGCTCCATCGACTGCATCCACCTAATCAATGAGGAGCACATGGT
CTCGGGCGCGGACGATGGCTCTGTGGCCTTGTGGGTCTCTCCAAGAAGCGACCACTTGCCCTGCAGCGTGAAGC
CTACGGGCTGCGGGGAGAGCCAGGCCTGGAGCAGCCCTTCTGGATATCGTCGGTGGCAGCCCTCCTCAACACAGA
CCTTGTGGCCACAGGCTCCACAGCTCCTGTGTGCGGCTTTGGCAGTGTGGGGAAGGCTTCCGGCAGCTTGACCT
TCTCTGTGACATCCCCCTGGTGGGTTTTATCAACAGCCTCAAGTTCTCCAGCTCTGGGGACTTCTGGTGGCTGG
GGTAGGGCAGGAGCACAGGCTTGGCCGATGGTGGAGAATCAAAGAGGCTCGGAATTCTGTCTGCATCATCCCACT
CCGCAGGGTCCCTGTACCCCCAGCTGCTGGTTCTTGACACTCTTATCCTCCTTATTTAAGTCCTTCCCAGGCTAT
GCCCCACCCTCTTTGAAGCTT

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FIGURE 458

MSATAAARKRGKPASGAGAGAGAGKRRRKADSAGDRGKSKGGGKMNEEISSDSESESLAPRKPEEEEEEELEETA
QEKKLRLAKLYLEQLRQEEEEKAEARAFEEDQVAGRLKEDVLEQRGRLOKLVAKEIQAPASADIRVLRGHQLSIT
CLVVTTPDDSAIFSAAKDCSIIKWSVESGRKLVIPRAKKGAEGKPPGHSSHVLCMAISSDGKYLASGDRSKLILI
WEAQSCQHLYTFTGHRDAVSGLAFFRGTHQLYSTSHDRSVKVNVAENSYVETLFGHQDAVAALDALSRECCVTA
GGRDGTVRVWVKIPEESQLVFYGHQGSIDCIHLINEEHMVSGADDGSVALWGLSKKRPLALQREAHGLRGEPGLEQ
PFWISSVAALLNTDLVATGSHSSCVRLWQCCEGFRQLDLLCDIPLVGFINSKLFSSSGDFLVAGVGQEHRLGRWW
RIKEARNSVCIIPLRVPVPPAAGS

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FIGURE 459

CGGGAGAGCGGCAGCGGGACCCAGCGCGGGCGGCGGGCTGGGCGGGAGCCCAGAGGGCAGGAAGTCTGCCA
CAACCTCAGGCTGGACACCAAACACCCGTGCCCCGCAATGCGGCCAGCCCCGAGAGTCAGGCCCCACAGAGCA
TGCCCATGTGGGCCGGCGGTGTGGGGAGCCCTCGGCGGGGCAATGGCCCTGCGTCCACAGATGACCTCTTTGCC
GCAAGCTGCGCCACCCAGCAAGGCCCCCGCTGACACCGCACACCTTTGAGCCGAGGCCAGTCCGGGGCCCACTCC
TGCGCAGGGCAGCGAATGCAGGCGAGGCCAGGCCCCCACGCCAGCCAGCCCCGTGCCCGTGCCACAGCCACG
AAGAGGCCAGCCGACCTGCAGCCACTTCCACCCGGCTCTTCACTGACCCGCAGGCACTGCTGGGGCTGCCAGCAG
AGGAACCAGAGCCTGCCTTCCCACCACTGCTTGAGCCTCGATGGTTTGCCCACTATGACGTGCAAAGCCTGCTCT
TTGATTGGGCTCCGAGGTCTCAGGGGATGGGGAGCCACTCAGAGGCCAGCTCTGGGACCCTGGCTTCAGCCGAGG
ACCAGGCTGCCAGCTCGGACCTGCTGCATGGGGCACCTGGCTTTGTGTGTGAGCTCGGGGGTGAGGGTGAGCTAG
GCCTGGGTGGACCAGCATCCCCACCTGTGCCCCCTGCACTGCCAACGCGGCCGTGTCCATCCTGGAGGAGCCAC
AGAACCGAACCTCGGCCTACAGCCTGGAGCACGCAGACCTGGGTGCTGGCTACTACCGCAAATACTTCTATGGCA
AAGAACATCAGAACTTCTTCGGGATGGACGAGTTCGTGGGCCCCGTGGCAGTGAGCCTGCGGCGGGAGGAGAAGG
PGGGAGCGGAGGGGGCACCTGCACAGCTACCGCGTCATCGTGCGGACCACGCAGCTCCGGACACTCCGTGGCA
CCATCTCGGAGGACGCGCTGCCGCCGGGGCCCCACGGGTCTGTCCCCAAGGAACTTCTGGAGCACGTGGCGC
CGCAGCTGAGCCCCAGCTGCCTGCGCCTGGGCTCAGCTTACCCAAAGGTACCACGGACGCTGCTCACACTGGATG
AGCAAGTGCTGAGCTTCCAACGCAAGGTGGGCATCCTGTACTGCCGGGCAGGCCAGGGCTCGGAGGAGGAGATGT
ACAACAACCAGGAGGCGGGACCGGCCTTCATGCAGTTTCTACCTTGCTGGGCGATGTGGTGCGGCTCAAAGGCT
TTGAGAGTTACCGGGCCAGCTAGACACCAAACGGATTCCACAGGCACGCACTCCCTCTACACCACATACCAGG
ACCACGAGATCATGTTCCACGTGTCCACGATGCTGCCTTACACCCCTAATAACCAGCAGCAGCTCCTCCGGAAGC
GCCACATTGGCAACGACATTGTGACCATCGTGTTCCAGGAGCCTGGCAGCAAGCCCTTCTGCCCCACCACCATCC
GCTCGCACTTCCAGCACGTGTTCTTAGTGGTGCGGGCACACACACCCTGCAGGCCACACACCACCTACAGGGTGG
CCGTGAGCCGCACCCAGGACACCCCTGCCTTCGGGCCAGCTCTGCCTGCTGGCGGAGGCCCCCTTCGCAGCCAACG
CCGACTTCCGGGCCTTCTGCTGGCCAAAGCGCTGAATGGTGAGCAGGCGGCCCGGCCACGCGCGCCAGTTCCACG
CCATGGCCACGCGCACCCGCCAGCAGTACCTGCAAGACCTGGCCACCAACGAGGTGACCACTACGTCGCTGGACT
CGGCTTACGCTTCGGCCTGCCCTCCCTGGGTGGGAGGCGCGGGCGGCCCTCGGGGCCAGGCGCCGAGCTGC
AGGCAGCGGGCTCACTGGTGTGGGGAGTGCGCGCGGGCGCCGGGGCGGGGTGCGCGCCGGGGTCTAGGCGAGCG
GCCCCGAAGGCATCGAGGTGCCCTGCCTGCTGGGCATCTCGGCCGAGGCTCTGGTGCTGGTGCGCGCGCGCAGC
GCGCGTAGTGTTCAATTGCGCCTGTGCGGACGTGCTGGCCTGGACCTTCTCCGAGCAGCAGCTGGACCTGTACC
ACGGCCGCGGGGAGGCGATCACGCTGCGCTTCGACGGGTCCCCCGGCCAAGCCGTGGGCGAGGTGGTGCGCGGCC
TGCAGCTGGTGAGCCGTGGCTGCGAGACCCGCGAGCTGGCGCTGCCCCGCGACGGTCAAGGCCGCCTGGGCTTCG
AGGTGGACGCGGAGGGATTCTGTCACGCACGTGGAGCGCTTACATTGCGCGAGACGGCGGCTGCGGCCGGGGCGC
GCCTCCTGCGCGTGTGCGGCCAGACGCTGCCAGCCTCCGGCCCCAGGCGCTGCCAGCTCCTGCGCTCGGCGC
CCAAGGTCTGCGTCACCGTCCCTGCCCCCGACGAGAGCGGCCGGCCCCGAGGAGTTTTTCGGAGCTGTACACGC
TGTCGCTGCAGGACGCTAGCCGGCGGGGGGCCAGATCCTGTGCAGGATGAGGTCCAGGGGCTGACCCTGCTGC
CCACCACAAAGCAGCTGCTGCACCTGTGCCTGCAAGATGGTGGCAGTCTCCAGGGCCTGGGGATCTGGCCGAGG
AGAGGACTGAGTTCCTGCACAGCCAGAATCGCTGTACACAGCAGCTCTCTGTGCGGATGAGGCCCCAGTCTGTC
CCAACACCACCCCGGACCTCCTCTGGCCACCACAGCCAAGCCATCAGTACCCAGTGCTGACAGTGAGACACCCC
TGACCCAGGACAGGCCAGGCAGTCCCAGTGGCTCTGAGGACAAGGGCAACCCGGCGCCGGAGCTCAGGGCCTCCT
TTCTGCCACGTACCTTGCTCTGCGGAATCCATCAGCAGGATCATGTGCGAGGCGGGCAGTGGGACCCTGGAGG
ACGAGTGGCAGGCCATCTCGGAGATTGCCTCTACTTGCAACACCAATTCTGGAGTCGCTGTCCCGAGAGGGACAGC
CCATCCCAGAGAGTGGAGACCCTAAGGGAATCCAAATCTGATGCTGAGCCAGAGCCTGGGAACCTCTCAGAGA
AGGTCTCTCACTTGAGTCCATGCTCAGGAAGCTGCAGGAGGACCTGCAGAAGGAGAAGGCGGACAGGGCGGCC
TGGAGGAGGAGGTGCGGAGCCTGAGACACAACAACCGGCGGCTGCAGGCGGAGTCTGAGAGTGACGCCACACGCC
TCCTCCTGGCCTCCAAGCAGCTGGGCTCACCCACCGCCGACCTGGCCTGAGCCGTCTGGAACCACTGGGCCCT
GGAGGGCACTGTGGTCACACTGGGCCCTCCTCAGGAATCTCCCTGCGCAGAGGCGTGTCTTAGCACTGCCCCC
TCCCTAGCCCCCTTATTTGGTGGCGGAAGTGGCCTCCACCCCTTCCCTGTTGTAAATATTCTGTGAAGAAAAGA
GGACTTCAGGGAGTAAAAAAGCCACTGATGTCTGTGTCTG

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FIGURE 460

MPMWAGGVGSPRRGMAPASTDDL FARKLRHPARPPLTPHTFEPRPVRGPLLRRRAANAGEARPPTPASPRARAHSH
EEASRPAATSTRLFTDPQALLGLPAEEPEPAFPVLEPRWF AHYDVQSLLFDWAPRSQGMGSHSEASSGTLASAE
DQAASSDLLHGAPGFVCELGGEGELGLGGPASPPVPPALPNAAVSILEEPQNRTSAYSLEHADLGAGYYRKYFYG
KEHQNFFGMD ESLGPVAVSLRREEKEGSGGGTLHSYRVIVRTTQLRTL RGTISEDALPPGPPRGLSPRKLL EHV
PQLSPSCLRLGSASP KVPRTLLTLDEQVLSFQRKVGILYCRAGQGSEEEMYN NQEAGPAFMQFLTLLGDVVR LKG
FESYRAQLD TKTDSTGTHSLYTTYQDHEIMFHVSTMLPYTPNNQQQLLRKRHIGNDIVTIVFQEPGSKPFCPTTI
RSHFQHVFLVVR AHTPCRPHTTYRVAVSRTQDTPAFGPALPAGGGPFAANAD FRAFLAKALNGEQ AAGHARQFH
AMATRTRQQYLQDLATNEVTTTSLDSASRFGLPSLGRRRAAPRGPGAELQAAGSLVWGVRAAPGARVAAGA QAS
GPEGIEVPCLLGISAEALVLVAPRDGRVVFNCACRDVLAWTFSEQQLDLYHGRGEAITLRFDGSPGQAVGEVVAR
LQLVSRGCETRELALPRDGQGR LGFEVD AEGFVTHVERFTFAETAAAAGARLLRVCGQTLP SLRPEAAAQ LLRSA
PKVCVTVLP PDESGRPRRSFSELYTSLQDASRRGAPDPVQDEVQGV TLLPTTKQLLHCLQDGGSPPGPD LAE
ERTEFLHSQNSLS PRSSLSDEAPVLPNTTPDLLLATTAKPSVPSADSETPLTQDRPGSPSGSEDKGNPAPELRAS
FLPRTL SLRNSISRIMSEAGSGTLEDEWQAISEIASTCNTILESLSREGQPI PESGDPKGT PKSDAEPEPGNLSE
KVSHLESMLRKLQEDLQKEKADRAALEEEVRS LRHNNRRLQA ESESAATRLLLASKQLGSPTADLA

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FIGURE 461

AGTCTCCGGCGAGTTGTTGCCTGGGCTGGACGTGGTTTTGTCTGCTGCGCCCGCTCTTCGCGCTCTCGTTTCATT
TTCTGCAGCGCGCCACGAGGATGGCCCACAAGCAGATCTACTACTCGGACAAGTACTTCGACGAACACTACGAGT
ACCGGCATGTTATGTTACCCAGAGAACTTTCCAAACAAGTACCTAAAACTCATCTGATGTCTGAAGAGGAGTGGA
GGAGACTTGGTGTCCAACAGAGTCTAGGCTGGGTTTATTACATGATTCATGAGCCAGAACCACATATTCTTCTCT
TTAGACGACCTCTTCCAAAAGATCAACAAAAATGAAGTTTATCTGGGGATCGTCAAATCTTTTTCAAATTTAATG
TATATGTGTATATAAGGTAGTATTTCAGTGAATACTTGAGAAATGTACAAATCTTTCATCCATACCTGTGCATGAG
CTGTATTCTTCACAGCAACAGAGCTCAGTTAAATGCAACTGCAAGTAGGTTACTGTAAGATGTTTAAGATAAAAG
TTCTTCCAGTCAGTTTTTCTCTTAAGTGCCTGTTTGAGTTTACTGAAACAGTTTACTTTTGTTCAATAAAGTTTG
TATGTTGCATTTAAAAAAAAAAAAAAAA

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FIGURE 462

MAHKQIYYSDKYFDEHYEYRHVMLPRELSKQVPKTHLMSEEEWRRRLGVQQSLGWVHYMIHEPEPHILLFRRPLPK
DQQK

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FIGURE 463

CSTGTCAGTGGTGGACCTGACCTGCTCCTGGCCCCCTTGGCTGGCCGGGCTGTTTCTGGCCATGGGTGCTCCCGC
CGGACAGGCGCGCACCGAGCGCACTCTCTAGCCCGGCAGATGAAGGCGAAGCGGCGGCGGCCGACTTGATGAG
ATTACCGCGAGCTGCGGCCTCAGGGATCCGCACGACCCCGACCCGACCCAAACGCCGAGTTCGACCCCGACCTG
CCAGGGGGCGGTCTGCACCGCTGTCTGGCCTGCGCGAGGTACTTCATCGATTCCACCAACCTGAAGACCCACTTC
TCCAAAGACCACAAGAAAAGGCTGAAGCAGCTGAGCGTCGAGCCCTACAGTCAGGAAGAGGCGGAGAGGGCA
GTATGGGATCCTATGTGCCCCCAGGCGGCTGGCAGTGCCACGGAAGTGTCCACTGAGGTCCCTGAGATG
ACCTCTACCTGACATGGCCTGAAGATGCAGGGCAGAGGAATTGCCCATGGACAGTGACGCAAGGACTAGGCT
GAGGGAGCGTGCCAACCCCTTTGCCTCTGGGTTTGGGGAGCGGAGGGCCTCTTCTTGGTGCCCTGCCCCAA
AGGAACTGGACAAAGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 464

MKAKRRRPDLDEIHRELRPQGSARPOPDNAEFDPDLPGGGLHRCLACARYFIDSTNLKTHFRSKDHKKRLKQLS
VEPYSQEEAERAAGMGSYVPPRRLAVPTEVSTEVPMDTST

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FIGURE 465

CTCTGTTTTCTCAAAGCTGAAGTCGGCTAGGTTTGCAAAGCTGTGGGCTGAGCACTCAGGCAATCACACTCTCAG
AAACTGCGGCGGCTCTGGACTGCAGCCTCCCAAGGCTCCATGCCAGACAAAGCATGCGTGTACACTTGCTACAA
TAGCCTGGATGGTTTTCTTTTGTCTCCAATTATTCACACACAGCAAATATTTTGCCAGATATCGAAAATGAAGATT
TCATCAAAGACTGCGTTCGAATCCATAACAAGTTCGATCAGAGGTGAAACCAACAGCCAGTGATATGCTATACA
TGACTTGGGACCCAGCACTAGCCCAAATTGCAAAAGCATGGGCCAGCAATTGCCAGTTTTCACATAATACACGGC
TGAAGCCACCCACAAGCTGCACCCAACTTCACTTCACTGGGAGAGAACATCTGGACTGGGTCTGTGCCCATTT
TTTCTGTGTCTTCCGCCATCACAACTGGTATGACGAAATCCAGGACTATGACTTCAAGACTCGGATATGCAAAA
AAGTCTGTGGCCACTACACTCAGGTTGTTTGGGCAGATAGTTACAAAGTTGGCTGCGCAGTTCAATTTGCCCTA
AAGTTTCTGGCTTTGACGCTCTTTCCAATGGAGCACATTTTATATGCAACTACGGACCAGGAGGGAATTACCCAA
CTTGGCCATATAAGAGAGGAGCCACCTGCAGTGCCTGCCCCAATAATGACAAGTGTTTGGACAATCTCTGTGTTA
ACCGACAGCGAGACCAAGTGAAACGTTACTACTCTGTGTATATCCAGGCTGGCCCATATATCCACGTAACAGAT
ACACTTCTCTCTTTCTCATTGTTAATTCAGTAATTCTAATACTGTCTGTTATAATTACCATTTTGGTACAGCTCA
AGTACCCTAATTTAGTTCTTTTGGACTAATACAATTCAGGAAAGAAAAACCCAAAAACCAACCTCATTACATA
TGGCTTTTTTTTTAACCAATAACAATTAGGTGTACTTCTATTTTAAACATTTTCAGAAAAAATATATGTTATAGC
AATACTCTTAC

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FIGURE 466

MRVTLATIAWMVSFVSNYSHTANILPDIENEDFIKDCVRIHNKFRSEVKPTASDMLYMTWDPALAQIAKAWASNC
QFSHNTRLKPPHKLHPNFTSLGENIWTGSVPISVSSAITNWDYDEIQDYDFKTRICKKVCGHYTQVWADSYKVG
CAVQFCPKVSGFDALSNGAHFICNYGPGGNYPTWPKRGATCSACPNNDKCLDNLCVNRQRDQVKRYYSVVYPGW
PIYPRNRYTSLFLIVNSVILILSVIITILVQLKYPNLVLLD

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FIGURE 467A

GGAACAGCTTGTCCACCCGCCGGCCGGACCAGAAGCCTTTGGGTCTGAAGTGTCTGTGAGACCTCACAGAAGAGC
ACCCCTGGGCTCCACTTACCTGCCCCCTGCTCCTTCAGGGATGGAGGCAATGGCGGCCAGCACTTCCCTGCCTGA
CCCTGGAGACTTTGACCGGAACGTGCCCCGGATCTGTGGGGTGTGTGGAGACCGAGCCACTGGCTTTCACTTCAA
TGCTATGACCTGTGAAGGCTGCAAAGGCTTCTTCAGGCGAAGCATGAAGCGGAAGGCATATTACCTGCCCCCTT
CAACGGGGACTGCCGCATCACCAAGGACAACCGACGCCACTGCCAGGCCTGCCGGCTCAAACGCTGTGTGGACAT
CGGCATGATGAAGGAGTTCATTCTGACAGATGAGGAAGTGCAGAGGAAGCGGGAGATGATCCTGAAGCGGAAGGA
GGAGGAGGCCTTGAAGGACAGTCTGCGGCCCAAGCTGTCTGAGGAGCAGCAGCGCATCATTGCCATACTGCTGGA
CGCCACCATAAGACCTACGACCCCACTACTCCGACTTCTGCCAGTTCCGGCCTCCAGTTCGTGTGAATGATGG
TGGAGGGAGCCATCCTTCCAGGCCCAACTCCAGACACACTCCCAGCTTCTCTGGGGACTCCTCCTCCTCCTGCTC
AGATCACTGTATCACCTCTTCAGACATGATGGACTCGTCCAGCTTCTCCAATCTGGATCTGAGTGAAGAAGATT
AGATGACCCCTTCTGTGACCCTAGAGCTGTCCAGCTTCCATGCTGCCCCACCTGGCTGACCTGGTCAGTTACAG
CATCCAAAAGGTCATTGGCTTTGCTAAGATGATACCAGGATTGAGAGACCTCACCTCTGAGGACCAGATCGTACT
GCTGAAGTCAAGTGCCATTGAGGTGATCATGTTGCGCTCCAATGAGTCCCTCACCATGGACGACATGTCCTGGAC
CTGTGGCAACCAAGACTACAAGTACCGCGTCAGTGACGTGACCAAAGCCGGACACAGCCTGGAGCTGATTGAGCC
CCTCATCAAGTTCAGGTGGGACTGAAGAAGCTGAACTTGATGAGGAGGAGCATGTCCTGCTCATGGCCATCTG
CATCGTCTCCCCAGATCGTCTGGGGTGCAGGACGCCGCGCTGATTGAGGCCATCCAGGACCGCCTGTCCAACAC
ACTGCAGACGTACATCCGCTGCCGCCACCCGCCCCCGGGCAGCCACCTGCTCTATGCCAAGATGATCCAGAAGCT
AGCCGACCTGCGCAGCCTCAATGAGGAGCACTCCAAGCAGTACCGCTGCCTCTCCTTCCAGCCTGAGTGCAGCAT
GAAGCTAACGCCCTTGTGCTCGAAGTGTTTGGCAATGAGATCTCCTGACTAGGACAGCCTGTGCGGTGCCTGGG
TGGGGCTGCTCCTECAGGGCCACGTGCCAGGCCCGGGGCTGGCGGCTACTCAGCAGCCCTCCTCACCCGCTCTGGG
GTTGAGCCCTCCTCTGCCACCTCCCTATCCACCCAGCCATTCTCTCTCTCTGTTCCAACCTAACCCCTTTTCTG
CGGGCTTTTCCCGGTCCCTTGAGACCTCAGCCATGAGGAGTTGCTGTTTGTGTTGACAAAGAAACCCAAAGTGGGG
GCAGAGGGCAGAGGCTGGAGGCAGGCCTTGCCAGAGATGCCTCCACCGCTGCCTAAGTGGCTGCTGACTGATGT
TGAGGGAACAGACAGGAGAAATGCATCCATTCTCAGGGACAGAGACACCTGCACCTCCCCCACTGCAGGCCCC
GCTTGTCCAGCGCCTAGTGGGGTCTCCCTCTCCTGCCTTACTCACGATAAATAATCGGCCCCACAGCTCCCACCCC
ACCCCTTCACTGCCCCACCAACATCCCATTGCCCTGGTTATATTCTCACGGGCAGTAGCTGTGGTGAGGTGGGT
TTCTTCCCATCACTGGAGCACCAGGCACGAACCCACCTGCTGAGAGACCAAGGAGGAAAAACAGACAAAAACAG
CCTCACAGAAGAATATGACAGCTGTCCCTGTCACCAAGCTCACAGTTCTCGCCCTGGGTCTAAGGGGTGTTGTTG
AGGTGGAAGCCCTCCTTCCACGGATCCATGTAGCAGGACTGAATTGTCCCAAGTTTGACAGAAAAGCACCTGCCGA
CCTCGTCTCCCCCTGCCAGTGCCTTACCTCTGCCAGGAGAGCCAGCCCTCCTGTCTCCTCGGATCACCGA
GAGTAGCCGAGAGCCTGCTCCCCACCCCTCCCCAGGGGAGAGGGTCTGGAGAAGCAGTGAGCCGCATCTTCTC
CATCTGGCAGGGTGGGATGGAGGAGAAGAATTTTCAGACCCACGCGCTGAGTCATGATCTCCTGCCGCTCAA
TGTGTTGCAAGGCCGCTGTTACCCACAGGGCTAAGAGCTAGGCTGCCGCACCCAGAGTGTGGGAAGGGAGAGC
GGGGCAGTCTCGGGTGGCTAGTCAGAGAGAGTGTGGGGGTTCCGTGATGTAGGGTAAGGTGCCTTCTTATTCT
CACTCCACCACCCAAAAGTCAAAAGGTGCCTGTGAGGCAGGGGCGGAGTGATACAACTTCAAGTGCATGCTCTCT
GCAGGTGAGCCAGCCAGCTGGTGGGAAGCGTCTGTCCGTTTACTCCAAGGTGGGTCTTTGTGAGAGTGAGCT
GTAGGTGTGCGGGACCGGTACAGAAAGGCGTCTTCGAGGTGGATCACAGAGGCTTCTTCAGATCAATGCTTGAG
TTTGGAAATCGGCCGCATTCCCTGAGTCACCAGGAATGTTAAAGTCAGTGGGAACGTGACTGCCCCAACTCCTGGA
AGCTGTGTCTTGCACCTGCATCCGTAGTTCCCTGAAAACCCAGAGAGGAATCAGACTTCACACTGCAAGAGCCT
TGGTGTCCACCTGGCCCCATGTCTCTCAGAATTCTTCAGGTGGAAAAACATCTGAAAAGCCACGTTCCCTTACTGCA
GAATAGCATATATATCGCTTAATCTTAAATTTATTAGATATGAGTTGTTTTTCACTCAGACTCCATTGTATT
TAGTCTAATATACAGGGTAGCAGGTACCACTGATTTGGAGATATTTATGGGGGAGAACTTACATTGTGAACTT
CTGTACATTAATTATTATTGCTGTTGTTATTTTACAAGGGTCTAGGGAGAGACCCCTGTTTGTATTGTAGCTGCAG
AACTGTATTGGTCCAGCTTGCTCTTCACTGGGAGAAAAACACTTGTAAGTTGCTAAACGAGTCAATCCCTCATT
CAGGAAAACCTGACAGAGGAGGGCGTGACTACCCAAGCCATATATAACTAGCTAGAAGTGGGCCAGGACAGGCCG
GGCGCGGTGGCTCACGCCTGTAATCCAGCAGTTTGGGAGGTCGAGGTAGGTGGATCACCTGAGGTGGGAGTTT
GAGACCAACCTGACCAACATGGAGAAACCTGTCTCTATTAATAAATAACAAAAAATAAATAAATAAATAAATAA
GGCATGGTGGCGCAAGCCTGTAATCCAGCTACTCAGGAGGCTGAGGCAGAAGAATTGAACCCAGGAGGTGGAGG

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FIGURE 467B

TTGCAGTGAGCTGAGATCGTGCCGTTACTCTCCAACCTGGACAACAAGAGCGAAACTCCGTCTTAGAAGTGGACC
AGGACAGGACCAGATTTTGGAGTCATGGTCCGGTGTCTTTTCACTACACCATGTTTGAGCTCAGACCCCCACTC
TCATTCCCCAGGTGGCTGACCCAGTCCCTGGGGGAAGCCCTGGATTTTCAGAAAGAGCCAAGTCTGGATCTGGGAC
CCTTTCCTTCCTTCCCTGGCTTGTAACCTCACCAAGCCCATCAGAAGGAGAAGGAAGGAGACTCACCTCTGCCTC
AATGTGAATCAGACCCTACCCACCACGATGTGCCCTGGCTGCTGGGCTCTCCACCTCAGGCCTTGGATAATGCT
GTTGCCTCATCTATAACATGCATTTGTCTTTGTAATGTCACCACCTTCCCAGCTCTCCCTCTGGCCCTGCTTCTT
CGGGGAATCCTGAAATATCAGTTACTCAGCCCTGGGCCCCACCACCTAGGCCACTCCTCCAAAGGAAGTCTAGG
AGCTGGGAGGAAAAGAAAAGAGGGGAAAATGAGTTTTTATGGGGCTGAACGGGGAGAAAAGGTCATCATCGATT
TACTTTAGAATGAGAGTGTGAAATAGACATTTGTAAATGTAAACTTTTAAGGTATATCATTATAACTGAAGGAG
AAGGTGCCCCAAAATGCAAGATTTTCCACAAGATTCCAGAGACAGGAAAATCCTCTGGCTGGCTAACTGGAAGC
ATGTAGGAGAATCCAAGCGAGGTCAACAGAGAAGGCAGGAATGTGTGGCAGATTTAGTGAAAGCTAGAGATATGG
CAGCGAAAGGATGTAAACAGTGCCTGCTGAATGATTTCCAAAGAGAAAAAAGTTTGCCAGAAGTTTGTCAAGTC
AACCAATGTAGAAAGCTTTGCTTATGGTAATAAAAATGGCTCATACTTATATAGCACTTACTTTGTTTGCAAGTA
CTGCTGTAAATAAATGCTTTATGCAAACC

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FIGURE 468

MLAMAASTSLPDPGDFDRNVPRICGVCGRATGFHFNAMTCEGCKGFFRRSMKRKALFTCPFNDCRITKDNRRH
CQACRLKRCVDIGMMKEFILTDEEVQRKREMILKRKEEEALKDSLRLPKLSEEQQRIIAILLDAH HKTYDPTYSDF
CQFRPPVRVNDGGGSHPSRPNSRHTPSFGDSSSSCDHCITSSDMMDS SFSNLDLSEEDSDDPSVTLELSQLS
MLPHLADLVSYSIQKVIGFAKMIPGFRDLTSEDQIVLLKSSAIEVIMLR SNESFTMDMSWTCGNQDYKYRVSDV
SLESLIEPLIKFQVGLKKLNLHEEEHVLLMAICIVSPDRPGVQDAALIEAIQDRLSNTLQTYIRCRHPPPG
AKMIQKLADLRSLNEEHSKQYRCLSFQPECSMKLTPLVLEVF GNEIS

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FIGURE 469

CCGGAGCGGGGATCACCTTAACCTTGACTGTGGTCCCCCAGCCCTCCAAGAAATGCCCATAAACCAAGGAGGAGAG
GGTAAAAAATAGAAGAATACATGGAATTGGGGAGAAGAATGGGAAAAAGATGGGAGTGACTGCATAATGTCAGC
ATTTTGTGCTTTTGGCTCAGCATTGGATTGGATGGAGGATTTTCATCCTGAAACCAGCCCTCCGTCGCCACCGA
CCATGGAATAATTGTCTTCCACGAAACTCTTCCTGGTGCCAAAAAGGGTTTTATGTATATATTTGAGAGCTCCA
CATCCCTGGATCTGAATCCTCCACTTCCCACTGGAACCATGCCCTCCCAGTCCCGTTTCTCCCCCTCTAGGGGAT
GGAGGCTGAGAGACCCAGGAAGAAGAGGATGGTGAGCAGGGCCCCCTCAGGATGAGGAAGGCTGGCCCCCTCC
AAACTCCACCACTCGGCCTTGGCGATCTGCTCCTCCATCCCCTCCTCCTCCAGGGACCCGCCACACAGCCCTGGG
ACCCCGCTCGGCCTCCCTGCTCTCCCTGCAGACTGAACTCCTTCTGGACCTGGTGGCTGAAGCCCAGTCCCGCCG
CCTGGAGGAGCAGAGGGCCACCTTCTACACCCCCAAAACCCCTCAAGCCTAGCCCTGCCCACTCCGTCTCT
CGAGGACAGAGAACAGCTTTACAGCACTATCCTCAGTCACCAGTGCCAGCGGATGGAAGCCAGCGGTGAGAGCC
TCCCCTCCCTCCAGGGGGGCAAGAGCTCCTGGAGTTGCTGCTGAGAGTTCAGGGTGGGGGTTCGAATGGAGGAGCA
AAGGTCCCGGCCCCCCCCACACACACCTGCTGAGACTTGAGCCCCAACCCAGCCCTTCCTTGCCACTGGTCTCAAAGC
TGGGCAGCCCATTGCATGCCCTCAACTCTTGCTTGGCAGGGGTACCAGAGACTGAAAGACACGGCACAAATCTCA
ATATTCACTCTCCACATCACCTTCCCTGGGAACCTGGACAGGGTGAAAGTCCTCAAACCTTGGAACAGGCGAGAT
GGAACAGGGATTAACTCCCCGCCCACAGGTCCATGGGAGCTTGAGGCAGTAAGGGGGATCCCAGGCACCCATCT
CAAGGAGTGGCTGGGAGTCTTTTCCCTAACTTGTGGGGACACCACCAGTTGTCAAGCTACTAGGCAGTAGGGTCT
GAGGGCTCAGGCCTCCACCTGAGAGGTTATAACCTGAGAGACAGCTCTACCCCTTCCTCCCAGTAAGAAGGGAAGG
TGGGTGGGCACCTGAGAGATTAAGACTATTCTCCCAGTCCCCTACCAGCACCCCCGATCCCTGAGACTGAGGGG
TTTACGGGCTGTGAATGGACCTTCAGCCCTGCCACCCCTCCCTCCCCACTGCTGCTGAGTCTGTCTGATGTTTTG
GTTGTGTGAATAAATATAATTCCCTCTGGAAAAA

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FIGURE 470

MEAERPQEEEDGEQGPPQDEEGWPPPNSTTRPWSAPPSPPPPGTRHTALGPRSASLLSLQTELLLDLVAEAQSR
RLEEQRATFYTPQNPSSLAPAPLRPLEDREQLYSTILSHQCQRMEAQRSEPPLPPGGQELLELLLRVQGGGRMEE
QRSRPPTHIC

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FIGURE 471

CGGGCACTCACCGTGTGTAGTTGGCATCTCCGCGCGTCCGGACACCCGATCCCAGCATCCCTGCCTGCAGGACTG
TTCGTGTTTCAGCTCGCGTCCTGCAGCTGTCCGAGGTGCTCCAGTTGGAGGCTGAGGTTCCCGGGCTCTGTCGCTG
AGTGGGCGGCGGCACCGGCGGAGATGCTGCTGGGAAGAAGGCGCGCAAGAACGCTCAACCGAGCCCCGCGCGGGCTC
CAGCAGAGCTGGAAGTCGAGTGTGCTACTCAACTCAGGAGATTTGGAGACAAACTGAACTTCCGGCAGAACTTC
TGAATCTGATATCCAACTCTTCTGCTCAGGAACCTGACTGCATCAAAAACCTTGCATGAGGGGACTCCTTCAAAA
GAGTTTTCTCAGGAGGTGCACGTTTCATCAATTTGAAGAAAGACTGCATTGTAATTGAGAGGAATGTGAAGGTGC
ATTCATGGGTGCCCTTGGAAGGGAAGATGGAATACATCAAAGTGAATTTCTGTTCAAGTTTTCCAGATTATCA
TTCTTTGGGATGAGAGAACATTATAAAACCACTTTGTTTTATTTAAAGCAAGAATGGAAGACCCTTGAAAATAAA
GAAGTAATTATTGACACATTTCTTTTTTACTTAGAGAATCGTTCTAGTGTTTTTGCCGAAGATTACCGCTGGCCT
ACTGTGAAGGTAGATGACCTGTGATTAGACTGGGCGGCTGGGGAGAAACAGTTCAGTGCATTGTTGTTGTTGCTG
TTTTTGGTGTGTTTCTTTTCAGTGCCAACTCAGCACATTGTATATGATTTCGGTTTATACATATTACCTTGTTATA
ATGAAAAAACTCATTCTGAGAACACTGAAATGTTATACTCAGTGTGATTCTTCGGTCACTACACAACGTAAAA
TCATTTGTTTCTTTTACTCAAATTGTATTGCTTCTGTTTCAGATGATCTTTCATTCAATGTGTTCTGTTGGGCG
TTACTAGAAACTATGGAAACTGGAAAATACTTTGAAAAAATTGGATAAAGTATAGGAGGGTTACTTGGGGCCA
GTAAATCAGTAGACTGAACATTCAATATAATAAAGAACATGGGGATTTTGTATAACCAGGGATAATAAAAAGAA
AAAGAAGTTAATTTTTAATTGATGTTTTTGAACTTAGTAGAACAAATATTCAGAAGTAACTTGATAAGATATGA
ATGTTTCTAAAGAGTTTCTAAAGGTTGAAATGCTCCTTGTCACATTAGTGTGCATCCTACAAAAAGTGATCTCT
TAATGTAAATTAAGAATATTTTCATAATTGGAATATACTTTTCTTAAAAAAAAGGAACAGTTAGTTCTCATCTAG
AATGAAAGTTCCATATATGCATTGGTGAATATATATGTATACACATACTTACATACTTATATGGGTATCTGTATA
GATAATTTGTATTAGAGTATTATATAGCTTCTTAGTAGGGTCTCAAGTAAGTTCATTTTTTTTATCTGGGCTATA
TACAGTCTCAAATAAATAATGTCTTGATTTTATTTTCAGCAGGAATAATTTTATTTATTTTGCCTATTTATAATT
AAAGTATTTTTCTTTAGTTTGAAATGTGTATTAAAGTTACATTTTTGAGTTACAAGAGTCTTATAACTACTTGAA
TTTTTAGTTAAATGTCTTAATGTAGGTTGTAGTCACTTTAGATGGAAAATTACCTCACATCTGTTTTCTTCAGT
ATTACTTAAGATTGTTTTATTTAGTGGTAGAGAGATTTTTTTTTTTCAGCCTAGAGGCAGCTATTTTACCATCTGGT
ATTTATGGTCTAATTTGTATTTAAACATATGCACACATATAAAAGTTGATACTGTGGCAGTAACTATTAAAAAGT
TTTCACTGTT

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FIGURE 472

MPGKKARKNAQPSPARAPAELEVECATQLRRFGDKLNFRQKLLNLISKLFCSGT

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FIGURE 473A

GATGACGGTCTCAGCCTCCTCCCGACCCCTTCTGCGCGTCCGCTCTTCCCCTGCGCCCGCCCGCGCCCTCCGC
CCGCGCCCGGCCCGCCCGCCCGAGGCCTCGCCTCCGCTTCGCCGCCGCCGCCGCCGCGCAGCCAGGAGCAGCAGCCGC
GCCTGCAGACCGGCCTCGCGGAGCCCCGCGCGCCGAGCCCCACAATGGCTTATTCAGAAGAGCATAAAGGTATGCC
CTGTGGTTTTCATCCGCCAGAATTCCGGCAACTCCATTTCTTGGACTTTGAGCCCAGTATAGAGTACCAGTTTGT
GGAGCGGTTTGAAGAGCGCTACAAATGTGCCTTCTGCCACTCGGTGCTTACAACCCCCACCAGACAGGATGTGG
GCACCGCTTCTGCCAGCACTGCATCCTGTCCCTGAGAGAATTAAACACAGTGCCAATCTGCCCTGTAGATAAAGA
GGTCATCAAATCTCAGGAGGTTTTTAAAGACAATTGTTGCAAAAGAGAAGTCTCAACTTATATGTATATTGCAG
CAATGCTCCTGGATGTAATGCCAAGGTTATTCTGGGCCGGTACCAGGATCACCTTCAGCAGTGCTTATTTCAACC
TGTGCAGTGTTCTAATGAGAAGTGCCGGGAGCCAGTCTACGGAAAGACCTGAAAGAGCATTGTAGTGCATCCTG
TCAGTTTGCAAAGGAAAAATGCCTTTATTGCAAAAAGGATGTGGTAGTCATCAATCTACAGAATCATGAGGAAAA
CTTGTGTCTGAATACCCAGTATTTTGTCCCAACAATTGTGCGAAGATTATTCTAAAACTGAGGTAGATGAACA
CCTGGCTGTATGTCTGAAGCTGAGCAAGACTGTCTTTTAAAGCACTATGGCTGTGTCTGTAACGGATAAACGGAG
GAACCTGCAGCAACATGAGCATTACAGCCTTACGGGAGCACATGCGTTTGGTTTTAGAAAAGAATGTCCAATTAGA
AGAACAGATTTCTGACTTACACAAGAGCCTAGAACAGAAAGAAAGTAAAAATCCAGCAGCTAGCAGAACTATAAA
GAAACTTGAAAAGGAGTTCAAGCAGTTTGCACAGTTGTTTGGCAAAAATGGAAGCTTCTCCCAAACATCCAGGT
TTTTGCCAGTCACATTGACAAGTCAGCTTGGCTAGAAGCTCAAGTGATCAATTATTACAAATGGTTAACCAGCA
ACAAAATAAATTTGACCTGAGACCTTTGATGGAAGCAGTTGATACAGTGAAACAGAAAATTACCCTGCTAGAAAA
CAATGATCAAAGATTAGCCGTTTTAGAAGAGGAACTAACAAACATGATACCCACATTAATATTCTATAAAGCACA
GCTGAGTAAAAATGAAGAGCGATTTAAACTGCTGGAGGGTACTTGCTATAATGGAAAGCTCATTGGAAGGTGAC
AGATTACAAGATGAAGAAGAGAGAGGCGGTGGATGGGCACACAGTGTCATCTTCAGCCAGTCTTCTACACCAG
CCGCTGTGGCTACCGGCTCTGTGCTAGAGCATACTGAATGGGGATGGGTCAGGGAGGGGGTCACACCTGTCCCT
ATACTTTGTGGTCATGCGAGGAGAGTTTGAATCACTGTTGCAGTGCCATTTCAGGCAGAGGGTGACCCTGATGCT
TCTGGACCAGAGTGGCAAAAAGAACATTATGGAGACCTTCAAACCTGACCCCAATAGCAGCAGCTTTAAAAGACC
TGATGGGGAGATGAACATTGCATCTGGCTGTCCCCGCTTTGTGGCTCATTCTGTTTTGGAGAATGCCAAGAACGC
CTACATTAAAGATGACACTCTGTCTTGAAAGTGGCCGTGGACTTAAGTACCTGGAGGATCTCTAGTCACTGTT
ATGGGGTGATAAGAGGACTTCTTGGGGCCAGAAGTGTGGAGGAGAGCACATTTGATTATCATATTGACCTGGATT
TAGACTCAAAGCACATTTGTATTTGCCTTTTTCTTAACGTTTGAAGTCAGTTTAAACTTCTGAAGTGCTGTCT
TTTTACATTTTACTCTGTCCAGTTTGAACTTAAACTCTTAGAATATTCTCTTATTATTTATATTTTATATT
TCTTGAAAGATGGTAAGTTTCTTGAAGTTTTTGGGGCGTTTCTCTTTTACTGGTGCTTAGCGCAGTGCTCTCGGGC
ACTCTAAATATTGAGTGTTATGGAGGACACAGAGGTAGCAGAATCCAGTTGAAATGTTTTGATATTTTATTGT
TTGGCCTATTGATTCTAGACCTGGCCTTAAGTCTGCAAAAGCCATCTTTATAAGGTAGGCTGTTCCAGTTAAGAA
GTGGGTGATGTAGTTACAAAGATAATATGCTCAGTTTGGACCTTTTTTTCAGTTAAATGCTAAATATATGAAAT
TACTATACCTCTAAGTATTTTCATGAAATTCACCAGCAGTTTGAAGCACAGTTTGAAGGCTGCATAAGAACT
GGTGAATGGGGTAAGCATTTCATTCTTCTGCTGAAGTAAAGCAGAAAGTACTGCATAGTATATGAGATATAGC
CAGCTAGCTAAAGTTCAGATTTTGTAGGTTCAACCCTATGAAAAAACTATTTTCATAGGTCAAAAATGGTAAA
AAATTAGCAGTTTCATAAGATTCAACCAAATAAATATATATATACACACACACATACATATACACCTATATATGT
GTGTATACAAACAGTTTGAATGTATTTTGGTGACAGTAATAAATCAATGTGAGGATGGATAGAATTTAGTATATG
ATAGAGAAAATGTCATAAATGGATAAAAGGAATTTACAACCTGAGGAGAAAACCTTTACAATTTCCATGGGTGT
CAGAAGTACTCTCAGCGAAAACCTGATGGCTAAAACAGTATCTACTATTCTCTGATAACTTTTTTTTGGAGACAGA
GTTTCATTGTACCCAGGCTGGAGTACAGTGGCATGATCTCAGCTCACTGCAAACTCTGCCTCCCGAATTCAAGT
GATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCCCGTACCACACCCAGGTAATTTTTGTATTT
TTAGTAGAGACGGAGTTTGGCCATGTTGGCCAAGCTGATCTCAAACCTCCTGACCTCAAGTGATCTGCCCGCCTCG
GCCTCCCAAAGTGCTGAGATTACAGGCATGACCCACCGCTCAAGCCTCTGACAACCTATTGAATTTGTAAGCTGC
TATGCAAATGGGCATTTATATAAACTTGTGATGTTTCTTGTGAGAATTCTGAGTACTCTGTGAAGAACAGAAATG
ATCATATTCTTATGCATCTATCTGTATGGGTCTGAAGGTGTATATACAACTGAGATGAGTCCTTATGACTCTTG
ATAAGCCTGAGTTTAAACAACAACAAAATGCCAAGTTGTCTGAGCCCTTCTGCGTTGTTATGCCACTTCCCTAC
TGCTCATATGCACGCTGGCTCCCCCTGGGCACGCAAGGATGAGTATGGGCCATGGGCCCCCTGTAGAGCTGCTTACC
TGGTGATGACCATGCACCTTACAATTTCTGAACAGTTAACCCCTATAGAAGCATGCTTTATATGAGTGTCTTCTGG

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FIGURE 473B

GAAGAGGAACCTTCTTAATCTCTTCTGTGGGATTTTCAAATGCTAAAGACTCACACTGCAGCAATCATCCCAGA
TGATTAAATTCAAAGAAATAGGTTTACAACAGGAATATACTGAAGAACTAGAGTGTCAGTCTGGTGAAGTGTGG
CACGGTTGCTCAACACATCACCTCGGACAAATTCAGGAAGCATTCTTTAGCCCCACAAGTCCAGACCCAGGTGCT
CTGTATGTTTGTGTTTTAATATTCATCATATCCAAGTTCAGTCTGTCTTCCTGAGCAGTGAAGATCATATTGCTG
TTCTTTTAAGTAGTTGATGTGGAAAACATTTTAAAGTGAATTTGTCAAATGCTGGTTTTGTGTTTTATCC
TTTGTGCATATATATAAAGTATGTCATGGCATGGTTTGCTTAGGAGTTCAGAGTTCCTTCATCATCGAAAT
GATTAAGTGATCCCAGAACAAGGAATACTAGAGTAAAAGCACCTCTTTTTCACAAAAAAAAAAAAAAAAAAAA
AAAAAAA

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FIGURE 474

MAYSEEHKGMPCGFIRQNSGNSISLDFEPSIEYQFVERLEERYKCAFCHSVLHNPHTGCGHRFCQHCILSLREL
NTVPICPVDKEVIKSQEVFKDNCKREVLNLYVYCSNAPGCNAKVILGRYQDHLQQCLFQPVQCSNEKCREPVL
KDLKEHLSASCQFRKEKCLYCKDVVVINLQNHENLCPEYPVFCPNNCAKIILKTEVDEHLAVCPAEQDCPFK
HYGCAVTDKRRNLQQHEHSALREHMLVLEKNVQLEEQISDLHKSLEQKESKIQQLAETIKKLEKEFKQFAQLFG
KNGSFLPNIQVFASHIDKSAWLEAQVHQLQMVNQQNKFDLRPLMEAVDTVKQKITLLENNDQRLAVLEEETNK
HDTIHINIHKAQLSKNEERFKLLEGTCYNGKLIWKVTDYKMKKREAVDGHTVSIFSQSFYTSRCGYRLCARAYLNG
DGSGRGSHLSLYFVMRGEFDSLLQWPFQRVTLMLLDQSGKKNIMETFKPDPNSSSFKRPDGEMNIASGCPRFV
AHSVLENAKNAYIKDDTLFLKVAVDLTDLEDL

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FIGURE 475

CTGGCTTCGGCCTCAGCCCCACCATGGTGACGCTTGCTGAACTGCTGGTGCTCCTGGCCGCTCTCCTGGCCACGG
TCTCGGGCTATTTTCGTTAGCATCGACGCCCATGCTGAAGAGTGCTTCTTTGAGCGGGTCACCTCGGGCACCAAGA
TGGGCCTCATCTTCGAGGTGGCGGAGGGCGGCTTCTGGACATCGACGTGGAGATTACAGGACCAGATAACAAAG
GAATTTACAAAGGAGACAGAGAATCCAGTGGGAAATACACATTTGCTGCTCACATGGATGGAACATACAAATTTT
GTTTTAGTAACCGGATGTCCACCATGACTCCAAAAATAGTGATGTTTACCATTGATATTGGGGAGGCTCCAAAG
GACAAGATATGGAACAGAAGCTCACCAGAACAAGCTAGAAGAAATGATCAATGAGCTAGCAGTGGCGATGACAG
CTGTAAAGCACGAACAGGAATACATGGAAGTCCGGGAGAGAATACACAGAGCCATCAACGACAACACAAACAGCA
GAGTGGTCCCTTTGGTCCCTTCTTTGAAGCTCTTGTTCTAGTTGCCATGACATTGGGACAGATCTACTACCTGAAGA
GATTTTTTGAAGTCCGGAGAGTTGTTTTAAAAAGCCTCTTCTGATGATCCCAACTCAGAATTCAGTGTTTACCAA
ACACCTTGGTCATAATAATGTCATTAGTTTCTCCATTTTTATTTTCTGAACTGTACATTACAACTTATGTTTCT
TTGAGATTAAATAGATATTGGGGGAAAAACGCCTTTTTAGGAAAATTATAGTGAATAATTTGACAGTTGATTGGCAT
AATTTCTTGTTTGAATGCTGCCTCCATTATATAGGTCTTCCAGGAACTCAAACACTGTAAGTGAATATGGGAG
TATAGTTTTTATTATTTCTTCTTTTCTTTTGTTTTCTAATAATAATGCAGTTTGTTCAGGAAATCAGCACAAAG
CCTGATAGTACTTTACTAAATGACTGCATTCTTTGGATTCCCTCAGTCTATGGTTCAAGTCACTAAAGATTTCAT
TTTTGTTGAGTCCTTATGAGAAACAGCAGTATGAATCTTGACGGTTTCTGCCCCGCTCTAATGGCAGAGCTCTCTG
ACTTGGGTGTATGCTGCCAGGCTGGGTACTTTTCACTTTGTTTTCTTGTTTTGCTTTAAAACTACGACTCAGCA
TACATTTTCCACATACATTTTTTACATTGTACCTTAGGACTCAGTCATCTCCACTTAAATTGATGACACAAGCAG
CTAATAACCATTTCTGGGTTTTCTGCCTAACCCCTAATTGTCTGTAAAGCCAATTCTCTGGGTGTCCAGTGAG
TGGTGGCTTTTTTTCTTTCCACATTGGCACATTCACTTCTCCACTCTTGGCATGTAAGAAATAAGCATTTACAT
AATTGGAAAAATCTGGATTTCTGATGCCAAAGGGTTAAAGCTTCTTGGATTTTCAATTTATTGATATACAGCCACT
ATTTTATTTTTGATCAGTGGCCTTTGGGCCACTGTTTCAAGGTACTGACCATCAGTGTGAGCATTAGGGTTTTGGT
TTTTGTTTCTTTTGGGTATTTCTTTTTTGGCACATGTGAATCTTGTTTTGTGTAAATGAAATTACTTTCTCTTG
TTCTCTGATGATGGGTTTAAATTAAGAGCATCCGGTTTTGGTATGGGGATGATCCAGGATTATGTTGTGACT
GATACATATTAGTTACTTGTGCTTTTTTTTTTTTTTTTTTGGATCTTTGCAAGGGCAAACTACAAGTAACGAGTT
TTATATAATTAATTTAAATTTGTTACAGGTTTTTCATGTTTCAAGGATAAACCATACTTCCACCTTGGGTGAGAACAC
TTGCAACAGTTTATTAATGAGGTGACTTTCACCTTAGGACAACCTGTTGCATGCCAAGTTTTTTGTGTGTGTGAAA
CACTTCAAACTGATTTAAAGATGTAAATTTAAATTTGGTTGTATCTAATATGCCCCAGGTTCCGGTAAATAAAC
AATTCTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 476

MVTLAELLVLLAALLATVSGYFVSIDAHAECCFFERVTSGTKMGLIFEVAEGGFLDIDVEITGPDNKGIIYKGDRE
SSGKYTFAAHMDGTYKFCFSNRMSTMTPKIVMFTIDIGEAPKGQDMETEAHQNKLEEMINELAVAMTAVKHEQEY
MEVRERIHRAINDNTNSRVVLWSFFEALVLVAMTLGQIYYLKRFFEVRVV

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FIGURE 477

GGGCGCCGAGGCTCCCCGCCGCTCGCTGCTCCCCGGCCCCGCCCATGCCCTCCTACACGGTCACCGTGGCCACTG
GCAGCCAGTGGTTCGCCGGCACTGACGACTACATCTACCTCAGCCTCGTGGGCTCGGCGGGCTGCAGCGAGAAGC
ACCTGCTGGACAAGCCCTTCTACAACGACTTCGAGCGTGGCGCGGTGGATTACATACGACGTGACTGTGGACGAGG
AACTGGGCGAGATCCAGCTGGTCAGAATCGAGAAGCGCAAGTACTGGCTGAATGACGACTGGTACCTGAAGTACA
TCACGCTGAAGACGCCCCACGGGGACTACATCGAGTTCCCTGCTACCGCTGGATCACC GGCGATGTGAGAGTTG
TCCTGAGGGATGGACGCGCAAAGTTGGCCCCGAGATGACCAAATTCACATTCTCAAGCAACACCGACGTAAAGAAC
TGGAAACACGGCAAAAACAATATCGATGGATGGAGTGGAAACCTGGCTTCCCCTTGAGCATCGATGCCAAATGCC
ACAAGGATTTACCCCGTGATATCCAGTTTGATAGTAAAAAGGAGTGGACTTTGTTCTGAATTACTCCAAAGCGA
TGGAGAACCTGTTTCATCAACCGCTTCATGCACATGTTCCAGTCTTCTTGGAATGACTTCGCCGACTTTGAGAAAA
TCTTTGTCAAGATCAGCAACACTATTTCTGAGCGGGTCATGAATCACTGGCAGGAAGACCTGATGTTTGGCTACC
AGTTCCTGAATGGCTGCAACCCCTGTGTTGATCCGGCGCTGCACAGAGCTGCCCGAGAAGCTCCC GGTGACCACGG
AGATGGTAGAGTGCAGCCTGGAGCGGCAGCTCAGCTTGAGCAGGAGGTCCAGCAAGGGAACATTTTCATCGTGG
ACTTTGAGCTGCTGGATGGCATCGATGCCAACAAAACAGACCCCTGCACACTCCAGTTCCTGGCCGCTCCCATCT
GCTTGCTGTATAAGAACCTGGCCAACAAGATTGTCCCCATTGCCATCCAGCTCAACCAAATCCCGGGAGATGAGA
ACCCTATTTTCTCCCTTCGGATGCAAAAATACGACTGGCTTTTGGCCAAAATCTGGGTGCGTTCCAGTGACTTCC
ACGTCCACCAGACCATCACCCACCTTCTGCGAACACATCTGGTGTCTGAGGTTTTTGGCATTGCAATGTACCGCC
AGCTGCCTGCTGTGCACCCCATTTTCAAGCTGCTGGTGGCACACGCTGAGATTACCATTTGCAATCAACACCAAGG
CCCGTGAGCAGCTCATCTGCGAGTGTGGCCTCTTTGACAAGGCCAACGCCACAGGGGGCGGTGGGCACGTGCAGA
TGGTGCAGAGGGCCATGAAGGACCTGACCTATGCCTCCCTGTGCTTTCCCGAGGCCATCAAGGCCCGGGGCATGG
AGAGCAAAGAAGACATCCCCCTACTACTTCTACCGGGACGACGGGCTCCTGGTGTGGGAAGCCATCAGGACGTTCA
CGGCCGAGGTGGTAGACATCTACTACGAGGGCGACCAGGTGGTGGAGGAGGACCCGGAGCTGCAGGACTTCGTGA
ACGATGTCTACGTGTACGGCATGCGGGGCCGCAAGTCCTCAGGCTTCCCAAGTCGGTCAAGAGCCGGGAGCAGC
TGTCGGAGTACCTGACCGTGGTGATCTTCACCGCCTCCGCCCAGCACGCCGCGGTCAACTTCGGCCAGTACGACT
GGTGCTCCTGGATCCCCAATGCGCCCCCAACCATGCGAGCCCCGCCACCGACTGCCAAGGGCGTGGTGACCATTG
AGCAGATCGTGGACACGCTGCCCCACCGCGGCCGCTCCTGCTGGCATCTGGGTGCAGTGTGGGCGCTGAGCCAGT
TCCAGGAAAACGAGCTGTTCCTGGGCATGTACCCAGAAGAGCATTTTATCGAGAAGCCTGTGAAGGAAGCCATGG
CCCGATTCCGCAAGAACCTCGAGGCCATTGTCAGCGTGATTGCTGAGCGCAACAAGAAGAAGCAGCTGCCATATT
ACTACTTGTCCCCAGACCGGATTCCGAACAGTGTGGCCATCTGAGCACACTGCCAGTCTCACTGTGGGAAGGCCA
GCTGCCCCAGCCAGATGGACTCCAGCCTGCCTGGCAGGCTGTCTGGCCAGGCCTCTTGGCAGTCACATCTCTTCC
TCCGAGGCCAGTACCTTTCCATTTATTCTTTGATCTTCAGGGAAGTGCATAGATTGTATCAAAGTGTAACACCA
TAGGGACCCATTCTACACAGAGCAGGACTGCACAGGCGTCCTGTCCACACCCAGCTCAGCATTTCCACACCAAGC
AGCAACAGCAAATCACGACCACTGATAGATGTCTATTCTTGTGGAGACATGGGATGATTATTTTCTGTTCTATT
TGTGCTTAGTCCAATTCCTTGCACATAGTAGGTACCCAATTCAATTACTATTGAATGAATTAAGAATTGGTTGCC
ATAAAAATAAATCAGTTCATTT

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FIGURE 478

MPSYTVTVATGSQWFACTDDYIYLSLVGSAGCSEKHLDDKPFYNDFERGAVDSYDVTVDEELGEIQLVRIEKRKY
WLNDWYLYITLKTPHGDYIEFPCYRWITGDVEVVLRDGRAKLARDDQIHILKQHRRKELETRQKQYRWMEWNP
GFPLSIDAKCHKDLPRDIQFDSEKGVDFVLNYSKAMENLFINRFMHMFQSSWNDFADFEKIFVKISNTISERVMN
HWQEDLMFGYQFLNGCNPVLIRRCTELPEKLPVTTEMVECSLERQLSLEQEVQQGNIFIVDFELLDGIDANKTDP
CTLQFLAAPICLLYKNLANKIVPIAIQLNQIPGDENPIFLPSDAKYDWLLAKIWVRSSDFHVTITHTLLRTHLV
SEVFGIAMYRQLPAVHPIFKLLVAHVRFITIAINTKAREQLICEGLFDKANATGGGGHVQMVQRAMKDLTYASLC
FPEAIKARGMESKEDIPYYFYRDDGLLVWEAIRTFTAEVVDIYYEGDQVVEEDPELQDFVNDVYVYGMGRKSSG
FPKSVKSREQLSEYLTVVIFTASAQHA AVNFGQYDWCSWIPNAPPTMRAPPPTAKGVVTIEQIVDTLPDRGRSCW
HLGAVWALSQFQENELFLGMYPEEHFIEKPVKEAMARFRKNLEAIVSVIAERNKKKQLPYYYLSPDRIPNSVAI

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FIGURE 479A

CCCTCGATCTTGGGACCCACCGCTGCCCTCAGCTCCGAGTCCAGGGCGAGTGCAGAGCACAGCGGGCGGAGGACC
CGGGGCGCGGGCGCGGACGGCACGCGGGGCATGAACCTGGAGGGCGGGCGCCGAGGCGGAGAGTTCCGGCATGAGC
GCGGTGAGCTGCGGCAACGGGAAGCTCCGCCAGTGGCTGATCGACCAGATCGACAGCGGCAAGTACCCCGGGCTG
GTGTGGGAGAACGAGGAGAAGAGCATCTTCCGCATCCCTGGAAGCACGCGGGCAAGCAGGACTACAACCGCGAG
TACGCCGCGCTCTTCAAGGCTTGGGCACTGTTTAAAGGAAAGTTCCGAGAAGGCATCGACAAGCCGGACCCT
CCTGGAAGACGCGCCTGCGGTGCGCTTTGAACAAGAGCAATGACTTTGAGGAACCTGGTTGAGCGGAGCCAG
ACATCTCAGACCCGTACAAAGTGACAGGATTGTTCTGAGGGAGCCAAAAAGGAGCCAAGCAGCTCACC
GGAGGACCCGCGAGATGTCCATGAGCCACCCCTACACCATGACAACGCCTTACCCTTCGCTCCAGCCCAGCAG
ACAACCTACATGATGCCACCCCTCGACCGAAGCTGGAGGGGACTACGTCCCGGATCAGCCACACCCGGAATC
ACCAATGTCCCATGACGTTTGGACCCCGCGGCCACCACTGGCAAGGCCAGCTTGTGAAAATGGTTGCCAG
ACAGGAACCTTTTATGCTTGTGCCCCACCTGAGTCCAGGCTCCCGGAGTCCCCACAGAGCCAAGCATAAGG
CCGAAGCCTTGGCGTTCTCAGACTGCCGGCTGCACATCTGCCTGTACTACCGGGAATCCTCGTGAAGGAG
ACACGCTCCAGCCCCGAGGGCTGCCGGATCTCCCATGGACATACGTATGACGCCAGCAACCTGGACCAGGTC
TTCCTCCCTACCCAGAGGACAATGGCCACAGGAAAAACATTGAGAACCTGCTGAGCCACCTGGAGAGGGGCGTG
TCTCTGGATGGCCCCCGACGGGCTCTATGCGAAAAGACTGTGCCAGAGCACGATCTACTGGGACGGGCCCCCTG
GCGTGTGCAACGACCGGCCCAACAACTGGAGAGAGACCAGACCTGCAAGCTCTTTGACACACAGCAGTTCTTG
TCAGAGCTGCAAGCGTTTGCTCACCACGGCCGCTCCCTGCCAAGATTCCAGGTGACTCTATGCTTTGGAGAGGAG
TTTCCAGACCCTCAGAGGCAAAGAAAGCTCATCACAGCTCACGTAGAACCTCTGCTAGCCAGACAACCTATATTAT
TTTGCTCAACAAAACAGTGGACATTTCTGAGGGGCTACGATTACCAGAACACATCAGCAATCCAGAAGATTAC
CACAGATCTATCCGCCATTCTCTATTCAAGAAATGAAAAATGTCAAGATGAGTGGTTTTCTTTTTCTTTTTTT
TTTTTTTTTTTTGATACGGAGATACGGGGTCTTGCTCTGCTCTCCAGGCTGGAGTGCAGTGACACAATCTCAGCT
CACTGTGACCTCCGCCTCTGCGGTTCAAGAGACTCTCCTGCCTCAGCCTCCCTGGTAGCTGGGATTACAGGTGTG
AGCCACTGCACCCACCAAGACAAGTGATTTTCATTGTAATATTTGACTTTAGTGAAAGCGTCCAATTGACTGC
CCTCTTACTGTTTTGAGGAACCTCAGAAGTGGAGATTTAGTTTCCAGCGGTTGAGGAGAATTGCGGCGAGACAAGCA
TGGAAAATCAGTGACATCTGATTGGCAGATGAGCTTATTTCAAAGGAAGGGTGGCTTTGCATTTTCTTGTGTTT
GTAGACTGCCATCATTGATGATCACTGTGAAAATTGACCAAGTGATGTGTTTACATTTACTGAAATGCGCTCTT
TAATTTGTTGTAGATTAGGTCTTGCTGGAAGACAGAGAAAACCTTGCCCTTTCAGTATTGACACTGACTAGAGTGAT
GACTGCTTGTAGGTATGTCTGTGCCATTTCTCAGGGAAGTAAGATGTAAATTGAAGAAGCCTCACACGTAAAAGA
AATGTATTAATGTATGTAGGAGCTGCAGTTCTTGTGGAAGACACTTGCTGAGTGAAGGAAATGAATCTTTGACTG
AAGCCGTGCCTGTAGCCTTGGGGAGGCCCATCCCCACCTGCCAGCGGTTTCTGCTGTTGGGTCCCTCTGCCCA
CCCTCCTTCCCATTGGCTTTCTCTCCTTGGCCTTTCTGGAAGCCAGTTAGTAACTTCTATTTTCTTGAGTCA
AAAAACATGAGCGCTACTCTTGGATGGGACATTTTGTCTGTCTTACAATCTAGTAATGTCTAAGTAATGGTTAA
GTTTTCTTGTCTGTCATCTTTTGGACCTCATTCTTTAGAGATGCTAAAATTCTTCGCATAAAGAAGAAGAAAT
TAAGGAACATAAATCTTAATACTTGAAGTGTGTCCTTCTGTCCAAGTACTTAACTATCTGTTCCCTTCTCTGT
GCCACGCTCCTCTGTTTGTGTTGGCTGTCCAGCGATCAGCCATGGCGACACTAAAGGAGGAGGAGCCGGGACTCC
CAGGCTGGAGAGCACTGCCAGGACCCACCACTGGAAGCAGGATGGAGCTGACTACGGAACCTGCACACTCAGTGGG
CTGTTTCTGCTTATTTTCTGTTCTATGCTTCTCTGTCGAATTATAGTTTGACAGGGCCTTAAATTACTTGG
CTTTTTCCAAATGCTTCTATTTATAGAAATCCCAAAGACCTCCACTTGCTTAAGTATACCTATCACTTACATTTT
TGTGGTTTTGAGAAAGTACAGCAGTAGACTGGGGCGTCACCTCCAGGCCGTTTCTCATACTACAGGATATTTACT
ATTACTCCCAGGATTCAGCAGAAGATTGCGTTAGCTCTCAAATGTGTGTTCTGCTTTTCTAATGGATATTTTAA
ATTCAATTCAACAAGCACCTAGTAAGTGCCTGCTGTATCCCTACATTACACAGTTCAGCCTTTATCAAGCTTAGTG
AGCAGTGAGCACTGAAACATTATTTTTTAAATGTTTAAAAAGTTTCTAATATTAAGTCAGAATATTAATACAATT
AATATTAATATTAACCTACAGAAAAGACAAACAGTAGAGAACAGCAAAAAAATAAAAAAGGATCTCCTTTTTTCCCA
GCCCAAATCTCCTCTCTAAAGTGTCCACAAGAAGGGGTGTTTATTCTTCCAACACATTTCACTTTTCTGTAAA
TATACATAAACTTAAAAAGAAAACCTCATGGAGTCATCTTGACACACTTTTTCATGCAGTGCTCTTTGTAGCTAA
ACAGTGAAGATTTACCTCGTTCTGCTCAGAGGCCCTGCTGTGGAGCTCCACTGCCATGTACCCAGTAGGGTTTGA
CATTTCAATTAGCCATGCAACATGGATATGTATTGGGCAGCAGACTGTGTTTCGTGAACCTGCAGTGATGTATACAT
CTTATAGATGCAAAGTATTTTGGGGTATATTATCCTAAGGGAAGATAAAGATGATATTAAGAAGTCTGTTTCAC

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FIGURE 479B

GGGGCCCTTACCTGTGACCCTCTTTGCTGAAGAATATTTAACCCACACAGCACTTCAAAGAAGCTGTCTTGGA
GTCTGTCTCAGGAGCACCTGTCTTCTTAATTCCTCAAGCGGATGCTCCATTTCAATTGCTTTGTGACTTCTTCT
TCTTTGTTTTTTTTAAATATTATGCTGCTTTAACAGTGGAGCTGAATTTTCTGGAAAATGCTTCTTGGCTGGGGCC
ACTACCTCCTTTTCTATCTTTACATCTATGTGTATGTTGACTTTTTTAAAATTCTGAGTGATCCAGGGTATGACCT
AGGGAATGAAGTAGCTATGGAAATAACTCAGGGTTAGGAATCCTAGCACTTGTCTCAGGACTCTGAAAAGGAACG
GCTTCCTCATTCTTGTCTTGATAAAGTGGAATTGGCAAACCTAGAATTTAGTTTGTACTCAGTGGACAGTGCTGT
TGAAGATTTGAGGACTTGTTAAAGAGCACTGGGTCATATGGAAAAAATGTATGTGTCTCCCCAGGTGCATTTTCT
TGGTTTATGTCTTGTCTTGAGATTTTGTATATTTAGGAAAACCTCAAGCAGTAATTAATATCTCCTGGAACACT
ATAGAGAACCAAGTGACCGACTCATTTACAACCTAGGAAGCCCCTGAGTCCTGAGCGAAAACAGGAGAG
TTAGTCGCCCCTACAGAAAACCCAGCTAGACTATTGGGTATGAACTAAAAAGAGACTGTGCCATGGTGAGAAAAAT
GTAAAATCCTACAGTGGAATGAGCAGCCCTTACAGTGTTGTTACCACCAAGGGCAGGTAGGTATTAGTGTTTGAA
AAAGCTGGTCTTTGAGCGAGGGCATAAATACAGCTAGCCCCAGGGGTGGAACAACCTGTGGGAGTCTTGGGTACTC
GCACCTCTTGGCTTTGTTGATGCTCCGCCAGGAAGGCCACTTGTGTGTGCGTGTGAGTTACTTTTTTAGTAACAA
TTCAGATCCAGTGTAACCTTCCGTTTATTGCTCTCCAGTCACATGCCCCCACTTCCCCACAGGTGAAAGTTTTTC
TGAAGTGTTGGGATTGGTTAAGGTCTTTATTTGTATTACGTATCTCCCCAAGTCCTCTGTGGCCAGCTGCATCTG
TCTGAATGGTGCGTGAAGGCTCTCAGACCTTACACACCATTTTGTAAAGTTATGTTTTACATGCCCCGTTTTTGAG
ACTGATCTCGATGCAGGTGGATCTCCTTGAGATCCTGATAGCCTGTTACAGGAATGAAGTAAAGGTCAGTTTTTT
TTGTATTGATTTTACAGCTTTGAGGAACATGCATAAGAAATGTAGCTGAAGTAGAGGGGACGTGAGAGAAGGGC
CAGGCCGGCAGGCCAACCTCCTCCAATGGAAAATCCCGTGTGCTTCAAACCTGAGACAGATGGGACTTAACAGG
CAATGGGGTCCACTTCCCCCTCTTCAGCATCCCCGTACC

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FIGURE 480

MNLEGGGRGGEFGMSAVSCGNGKLRQWLIDQIDSGKYPGLVWENEEKSIFRIPWKHAGKQDYNREEDAALFKAWA
LFKGKFREGIDKPDPTWKTRLCALNKSNDFEELVERSOLDISDPYKVYRIVPEGAKKGAKQLTLEDPOMSMSH
PYTMTTPYPSLPAQQVHNYMPPDRSWRDYVPDQPHPEIPYQCPMTFGPRGHHWQGPACENGCCQVTGTFYACAP
PESQAPGVPTEPSIRSAEALAFSDCRLHICLYYREILVKELTTSSPEGCRISHGHTYDASNLDQVLFYPYPEDNGH
RKNIENLLSHLERGVVLWMAPDGLYAKRLCQSTIYWDGPLALCNDRPNKLERDQTCKLFDQTQQFLSELQAFAHHG
RSLPRFQVTLCFGEEFPDPQRQRKLITAHVEPLLARQLYYFAQQNSGHFLRGYDLPEHISNPEDYHRSIRHSSIQ
E

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FIGURE 481A

GAATTCGGCGCTGAGTGACCCGAGTCGGGACGCGGGCTGCGCGCGGGGACCCCGGAGCCCAAACCCGGGGCAGG
CGGGCAGCTGTGCCCCGGGCGGCACGGCCAGCTTCCTGATTTCTCCCGATTCCCTTCCTTCTCCCTGGAGCGGCCGA
CAATGTCACACCGGTCAATGTAGATTCCCTTGCAGGAATATGAGAAGAGCCAGATCAAGAGAGCCCTGGAGCTGG
GGACGGTGATGACTGTGTTTCAGCTTCCGCAAGTCCACCCCGAGCGGAGAACCGTCCAGGTGATCATGGAGACGC
GGCAGGTGGCCTGGAGCAAGACCGCCGACAAGATCGAGGGCTTCTTGGATATCATGGAAATAAAAGAAATCCGCC
CAGGGAAGAACTCCAAAGATTTCGAGCGAGCAAAAGCAGTTCGCCAGAAAGAAGACTGCTGCTTCACCATCCTAT
ATGGCACTCAGTTCGTCTCAGCACGCTCAGCTTGGCAGCTGACTCTAAAGAGGATGCAGTTAACTGGCTCTCTG
GCTTGAAAATCTTACACCAGGAAGCGATGAATGCGTCCACGCCCACCATTATCGAGAGTTGGCTGAGAAAGCAGA
TATATTCTGTGGATCAAACCAGAAGAAACAGCATCAGTCTCCGAGAGTTGAAGACCATCTTGCCCTGATCAACT
TTAAAGTGAGCAGTGCCAAGTTCCTTAAAGATAAGTTTGTGGAAATAGGAGCACACAAAGATGAGCTCAGCTTGTG
AACAGTTCATCTCTTCTATAAAAACTTATGTTTGAACAGCAAAAATCGATTCTCGATGAATTCAAAAAGGATT
CGTCCGTGTTTCATCTTGGGGAACACTGACAGGCCGGATGCCTCTGCTGTTTACCTGCATGACTTCCAGAGGTTTC
TCATACATGAACAGCAGGAGCATTGGGCTCAGGATCTGAACAAAGTCCGTGAGCGGATGACAAAGTTTATTGATG
ACACCATGCGTGAAACTGCTGAGCCTTTCTTGTGTTGTGGATGAGTTCTCACGTACCTGTTTTACAGAGAAAACA
GCATCTGGGATGAGAAGTATGACGCGGTGGACATGCAGGACATGAACAACCCCTGTCTCATTACTGGATCTCCT
CGTCACATAACACGTACCTTACAGGTGACCAGCTGCGGAGCGAGTTCGTCCCGAGAAGCTTACATCCGCTGCCTGC
GCATGGGCTGTGCTGCATTGAAGTGGACTGCTGGGACGGGCGCGATGGGAAGCCGGTTCATCTACCATGGCTGGA
CGCGGACTACCAAGATCAAGTTTGTATGACGTCGTGCAGGCCATCAAAGACCACGCCTTTGTTACCTCGAGCTTCC
CAGTGATCCTGTCCATCGAGGAGCACTGCAGCGTGGAGCAACAGCGTCACATGGCCAAGGCCTTCAAGGAAGTAT
TTGGCGACCTGCTGTTGACGAAGCCACGGAGGCCAGTGTGACCAGCTGCCCTCGCCAGCCAGCTGCGGGAGA
AGATCATCATCAAGCATAAGAAGCTGGGCCCCCGAGGCGATGTGGATGTCAACATGGAGGACAAGAAGGACGAAC
ACAAGCAACAGGGGGAGCTGTACATGTGGGATTCCATTGACCAGAAATGGACTCGGCACTACTGCGCCATTGCTG
ATGCCAAGCTGTCTTTCAGTGATGACATTGAACAGACTATGGAGGAGGAAGTGCCCCAGGATATACCCCTACAG
AACTACATTTTGGGGAGAAATGGTTCCACAAGAAGGTGGAGAAGAGGACGAGTGCCGAGAAGTTGCTGCAGGAAT
ACTGCATGGAGACGGGGGGCAAGGATGGCACCTTCTGTTTGGGAGAGCGAGACCTTCCCCAATGACTACACCC
TGTCCTTCTGGCGGTGAGGCCGGGTCCAGCACTGCCGATCCGCTCCACCATGGAGGGCGGGACCTTGAAATACT
ACTTGACTGACAACCTGAGGTTTACAGGAGGATGTATGCCCTCATCCAGCACTACCGCGAGACGCACCTGCCGTGCG
CCGAGTTCGAGCTGCGGCTCACGGACCCTGTGCCCAACCCCAACCCCCACGAGTCCAAGCCGTGGTACTATGACA
GCCTGAGCCGCGGAGAGGACAGAGGACATGCTGATGAGGATTCCCCGGGACGGGGCTTCTGATCCGGAAGCGAG
AGGGGAGCGACTCCTATGCCATCACCTTACAGGGCTAGGGGCAAGGTAAAGCATTGTGCGATCAACCGGGACGGCC
GGCACTTTGTGCTGGGGACCTCCGCCTATTTTGTAGAGTCTGGTGGAGCTCGTCAGTTACTACGAGAAGCATTAC
TCTACCGAAAGATGAGACTGCGCTACCCCGTGACCCCGAGCTCCTGGAGCGCTACAATACGGAAAGAGATATAA
ACTCCCTCTACGACGTCAGCAGAATGTATGTGGATCCAGTGAAATCAATCCGTCCATGCCTCAGAGAACCCTGA
AAGCTCTGTATGACTACAAAGCCAAGCGAAGCGATGAGCTGAGCTTCTGCCGTGGTGCCCTCATCCACAATGTCT
CCAAGGAGCCCCGGGGCTGGTGGAAAGGAGACTATGGAACCAGGATCCAGCAGTACTTCCCATCCAACCTACGTCG
AGGACATCTCAACTGCAGACTTCGAGGAGCTAGAAAAGCAGATTATTGAAGACAATCCCTTAGGGTCTCTTTGCA
GAGGAATATTGGACCTCAATACCTATAACGTCGTGAAAGCCCCCTCAGGGAAAAAACCAGAAGTCCTTTGTCTTCA
TCCTGGAGCCCCAAGGAGCAGGGCGATCCTCCGGTGGAGTTTGCCACAGACAGGGTGGAGGAGCTCTTTGAGTGGT
TTCAGAGCATCCGAGAGATCACGTGGAAGATTGACAGCAAGGAGAAACAACATGAAGTACTGGGAGAAGAACCAGT
CCATCGCCATCGAGCTCTCTGACCTGGTTGTCTACTGCAAACCAACCAGCAAAACCAAGGACAACCTAGAAAATC
CTGACTTCCGAGAAATCCGCTCCTTTGTGGAGACGAAGGCTGACAGCATCATCAGACAGAAGCCCGTCGACCTCC
TGAAGTACAATCAAAAGGGCTGACCCGCGTCTACCCAAAGGGACAAAGAGTTGACTCTTCAAACCTACGACCCCT
TCCGCCTCTGGCTGTGCGGTTCTCAGATGGTGGCACTCAATTTCCAGACGGCAGATAAGTACATGCAGATGAATC
ACGCAATTGTTTTCTCTCAACGGGCGCACGGGCTACGTTCTGCAGCCTGAGAGCATGAGGACAGAGAAATATGACC
CGATGCCACCCGAGTCCAGAGGAAGATCCTGATGACGCTGACAGTCAAGGTTCTCGGTGCTCGCCATCTCCCCA
AACTTGGACGAAGTATTGCCGTGTCCCTTTGTAGAAGTGGAGATCTGTGGAGCCGAGTATGGCAACAACAAGTTCA
AGACGACGGTTGTGAATGATAATGGCCTCAGCCCTATCTGGGCTCCAACACAGGAGAAGGTGACATTTGAAATTT
ATGACCCAAACCTGGCATTCTGCGCTTTGTGGTTTATGAAGAAGATATGTTACGGATCCCAACTTTCTTGCTC

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FIGURE 481B

ATGCCACTTACCCCATTAAGCAGTCAAATCAGGATTCAGGTCCGTTCTCTGAAGAATGGGTACAGCGAGGACA
TAGAGCTGGCTTCCCTCCTGGTTTTCTGTGAGATGCGGCCAGTCTGGAGAGCGAAGAGGAACCTTACTCCTCCT
GTCGCCAGCTGAGGAGGCGGCAAGAAGAACTGAACAACCAGCTCTTTCTGTATGACACACACCAGAACTTGCGCA
ATGCCAACCGGGATGCCCTGGTTAAAGAGTTCAGTGTTAATGAGAACCCTCCAGCTGTACCAGGAGAAATGCAA
CAAGAGGTTAAGAGAGAAGAGAGTCAGCAACAGCAAGTTTTACTCATAGAAGCTGGGGTATGTGTGTAAGGGTAT
TGTGTGTGTGCGCATGTGTGTTTGCATGTAGGAGAACGTGCCCTATTACACTCTGGGAAGACGCTAATCTGTGA
CATCTTTTCTTCAAGCCTGCCATCAAGGACATTTCTTAAGACCCAACCTGGCATGAGTTGGGGTAATTCCTATTA
TTTTCATCTTGGACAACCTTCTAACTTATATCTTTATAGAGGATCCCCAAAATGTGCTCCTCATTTTTGGCCTCT
CATGTTCCAAACCTCATTGAATAAAAAGCAATGAAAACCTTG

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FIGURE 482

MSTTVNVDSLAEYEKSQIKRALELGTVMTVFSFRKSTPERRTVQVIMETRQVAWSKTADKIEGFLDIMEIKEIRP
GKNSKDFERAKAVRQKEDCCFTILYGTQFVLSTLSLAADSKEDAVNWLSGLKILHQEAMNASTPTIIESWLRKQI
YSVDQTRRNSISLRELKILPLINFKVSSAKFLKDKFVEIGAHKDELSFEQFHLFYKKLMFEQQKSILDEFKKDS
SVFILGNTDRPDASAVYLHDFQRFLIHEQQEHWAQDLNKNVRERMTKFIDDTMRETAEPFLFVDEFLLTYLFSRENS
IWDEKYDAVDMQDMNNPLSHYWISSSHNTYLTGDQLRSESSPEAYIRCLRMGCRCIELDCWDGPDGKPVIIYHGT
RTTKIKFDDVVQAIKDHAFTSSFPVILSIEEHCSVEQQRHMAKAFKEVFGDLLLLTKPTEASADQLSPSPQLREK
IIIKHKKLGPRGDVDVNMEDKKDEHKQQGELYMWDSIDQKWTRHYCAIADAKLSFSDDIEQTMEEVPQDIPPE
LHFGEKWFHKKVEKRTSAEKLLQEYCMETGGKDGTFVLVRESETFPNDYTLFWRSGRVQHCRIRSTMEGGTLKYY
LTDNLRFRRMYALIQHYRETHLPCAELRLTDPVNPNNPHESKPWYDLSLRGEAEDMLMRIPRDGAFLIRKRE
GSDSYAITFRARGKVHCRINRDGRHFLGTSAYFESLVELVSYYEKHSLYRKMRLRYPVTPELLERYNTERDIN
SLYDVSRMYVDPSEINPSMPQRTVKALYDYKAKRSELSFCRGALIHNVSKPEGGWWKGDYGTIRIQYFPSNYVE
DISTADFEELEKQIIEDNPLGSLCRGILDLNTYNVVKAPQGKNQKSFFILEPKEQGDPPVEFATDRVEELFEWF
QSIREITWKIDSKENNMKYWEKNQSIATIELSDLVVYCKPTSKTKDNLENPDFREIRSFVETKADSIIRQKPVDLL
KYNQKGLTRVYPKGQRVDSSNYDPFRLWLCCSQMVALNFQTADKYMOMNHALFSLNGRTGYVLQPESMRTEKYDP
MPPESQRKILMTLTVKVLGARHLPLKGRSIACPFVEVEICGAEYGNNKFKTTVVNDNGLSPIWAPTQEKVTFEIIY
DPNLAFRLRFVVEEDMFSDPNFLAHATYPIKAVKSGFRSVPLKNGYSEDIELASLLVFCEMRPVLESEEEELYSSC
RQLRRRQEELNNQLFLYDTHQNLNRNANRDALVKEFSVNENHSSCTRRNATRG

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FIGURE 483

ACGGAATAAAGGCTCAGGGACCGGCAGTTCTACTCTAGAGCCCACCAGCCTCTCAGAGCCTCCGGTGACTGGCCT
GTGTCTCCCCCTGGATGGACATGTGGACGGCGCTGCTCATCCTGCAAGCCTTGTTGCTACCCTCCCTGGCTGATG
GTGCCACCCCTGCCCTGCGCTTTGTAGCCGTGGGTGACTGGGGAGGGGTCCCCAATGCCCATTCACACGGCCC
GGGAAATGGCCAATGCCAAGGAGATCGCTCGGACTGTGCAGATCCTGGGTGCAGACTTCATCCTGTCTCTAGGGG
ATTTTTACTTCACTGGTGTGCAAGACATCAATGACAAGAGGTTCCAGGAGACCTTTGAGGACGTATTCTCTG
CTCCCTTCGCAAAGTGCCCTGGTACGTGCTAGCCGGAAACCATGACCACCTTGGCAATGTCTCTGCCCAGA
CATACTCTAAGATCTCCAAGCGCTGGAACCTCCCCAGCCCTTTCTACCGCCTGCACCTCAAGATCCCACAGA
AATGTGTCTGTGGCCATTTTTATGCTGGACACAGTGACACTATGTGGCAACTCAGATGACTTCCTCAGCCAGC
CTGAGAGGCCCCGAGACGTGAAGCTGGCCCGCACACAGCTGTCTGGCTCAAGAAACAGCTGGCGGCGGCCA
AGGACTACGTGCTGGTGGCTGGCCACTACCCCGTGTGGTCCATAGCCGAGCACGGGCCTACCCACTGCCTGG
AGCAGCTACGGCCACTGCTGGCCACATACGGGGTCACTGCCTACCTGTGCGGCCACGATCACAATCTGCAGT
GCAAGATGAGAATGGCGTGGGCTACGTGCTGAGTGGGGCTGGGAATTTTCATGGACCCCTCAAAGCGGCACC
TCCAAGGTCCCCAACGGCTATCTGCGCTTCCACTATGGGACTGAAGACTCACTGGGTGGCTTTGCCTATGTGG
ATCAGCTCCAAAGAGATGACTGTCACTTACATCGAGGCCTCGGGCAAGTCCCTCTTTAAGACCAGGCTGCCGA
GCGGAGCCAGGCCCTGAACTCCCATGACTGCCCAGCTCTGAGGCCCCGATCTCCACTGTTGGGTGGGTGGCCTGCC
GGGACCCTGCTCACAGGCAGGCTTTTCCTCCAACCTGTGGCGCTGCAGCAGGGCAGGAAGGGGAAACACAGCTGA
TGAAGTGTGGTGCCACATGACCCTTGTGGCACAGATGCCCACGTATGTGAAACACACATGGACATGTGTCCCAGC
CACAGTGTATGCTCTGTGGCTGGCTCACCTTTGCTGAGTTCCGGGGTGCAATGGGGGAGGGAGGGAGGGAAAGC
TTCCTCCTAAATCAAGCATCTTTCTGTTACTGATGTTCAATAAAAGAATAGTTGCCAAGGCTG

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FIGURE 484

MDMWTALLILQALLPSLADGATPALRFVAVGDWGGVPNAPFHTAREMANAKEIARTVQILGADFILSLGDNFYF
TGVQDINDKRFQETFEDVFSRSLRKVPWYVLAGNHDHLGNVSAQIAYSISKRWNFPSPFYRLHFKIPQTNVSV
AIFMLDTVTLCGNSDDFLSQQPERPRDVKLARTQLSWLKKQLAAAREDYVLVAGHYPVWSIAEHGPTHCLVKQLR
PLLATYGVTAYLCGHDHNLQYLQDENGVGIVLSGAGNFMDPKSRHQKVPNGYLRPHYGTEDSLGGFAYVEISSK
EMTVTYIEASGKSLFKTRLPRARP

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FIGURE 485A

TTTCGACTCGCGCTCCGGCTGCTGTCACTTGGCTCTCTGGCTGGAGCTTGAGGACGCAAGGAGGGTTTGTCACTG
GCAGACTCGAGACTGTAGGCACCTGCCATGGCCCCCTGTGCTCAGTAAGGACTCGGCGGACATCGAGAGTATCCTGG
CTTTAAATCCTCGAACACAACTCATGCAACTCTGTGTTCCACTTCGGCCAAGAAATTAGACAAGAAACATTGGA
AAAGAAATCCTGATAAGAACTGCTTTAATTGTGAGAAGCTGGAGAATAATTTTGATGACATCAAGCACACGACTC
TTGGTGAGCGAGGAGCTCTCCGAGAAGCAATGAGATGCCTGAAATGTGCAGATGCCCCGTGTGAGAAGAGCTGTC
CAACTAATCTTGATATTAAATCATTATCACAAGTATTGCAACAAGAACTATTATGGAGCTGCTAAGATGATAT
TTTCTGACAACCCACTTGGTCTGACTTGTGGAATGGTATGTCCAACCTCTGATCTATGTGTAGGTGGATGCAATT
TATATGCCACTGAAGAGGGACCCATTAAATATTGGTGGATTGCAGCAATTTGCTACTGAGGTATTCAAAGCAATGA
GTATCCACAGATCAGAAATCCTTCGCTGCCTCCCCAGAAAAATGTCTGAAGCCTATTCTGCAAAGATTGCTC
TTTTTGGTGTGCGGCTGCAAGTATAAGTTGTGCTTCCTTTTTGGCTCGATTGGGGTACTCTGACATCACTATAT
TTGAAAAACAAGATATGTTGGTGGTTTAAAGTACTTCTGAAATTCCTCAGTTCCGGCTGCCGTATGATGTAGTGA
ATTTTGAGATTGAGCTAATGAAGGACCTTGGTGTAAAGATAATTTGCGGTAAAAGCCTTTCAGTGAATGAAATGA
CTCTTAGCACTTTGAAAGAAAAAGGCTACAAAGCTGCTTTCATTGGAATAGGTTTGCCAGAACC CAATAAAGATG
CCATCTTCCAAGGCCTGACGCAGGACCAGGGGTTTTATACATCCAAAGACTTTTTGCCACTTGTAGCCAAAGGCA
GTAAAGCAGGAATGTGCGCCTGTCACTCTCCATTGCCATCGATACGGGGAGTCGTGATTGTACTTGGAGCTGGAG
ACACTGCCTTCGACTGTGCAACATCTGCTCTACGTTGTGGAGCTCGCCGAGTGTTTCATCGTCTTCAGAAAAGGCT
TTGTTAATATAAGAGCTGTCCCTGAGGAGATGGAGCTTGCTAAGGAAGAAAAGTGTGAATTTCTGCCATTCTCTGT
CCCCACGGAAGGTTATAGTAAAAGGTGGGAGAATTGTTGCTATGCAGTTTGTTCGGACAGAGCAAGATGAAACTG
GAAATGGAATGAAGATGAAGATCAGATGGTCCATCTGAAAGCCGATGTGGTCATCAGTGCCTTTGGTTTCAGTTC
TGAGTGATCCTAAAGTAAAAGAAGCCTTGAGCCCTATAAAATTTAACAGATGGGGTCTCCAGAAAGTAGATCCAG
AACTATGCAAAC TAGTGAAGCATGGGTATTTGCAGGTGGTGTATGTCGTTGGTTTGGCTAACACTACAGTGGAAAT
CGGTGAATGATGGAAAGCAAGCTTCTTGGTACATTACAAATACGTACAGTCACAATATGGAGCTTCCGTTTCTG
CCAAGCCTGAACTACCCCTCTTTTACACTCCTATTGATCTGGTGGACATTAGTGTAGAAATGGCCGGATTGAAGT
TTATAATCCTTTTGGTCTTGCTAGCGCAACTCCAGCCACCAGCACATCAATGATTGCAAGAGCTTTTTGAAGCTG
GATGGGGTTTTTGCCCTCACCAAACTTTCTCTCTTGATAAGGACATTGTGACAAATGTTTCCCCCAGAATCATCC
GGGGAACCACCTCTGGCCCCATGTATGGCCCTGGACAAAGCTCCTTTCTGAATATTGAGCTCATCAGTGAGAAAA
CGGCTGCATATTGGTGTCAAAGTGTCACTGAACTAAAGGCTGACTTCCAGACAACATTGTGATTGCTAGCATT
TGTGCAGTTACAATAAAAATGACTGGACGGAACCTTGCCAAGAAGTCTGAGGATTCTGGAGCAGATGCCCTGGAGT
TAAATTTATCATGTCCACATGGCATGGGAGAAAGAGGAATGGGCCTGGCCTGTGGGCAGGATCCAGAGCTGGTGC
GGAACATCTGCCGCTGGGTTAGGCAAGCTGTTTCAGATTCTTTTTTTTGCCAAGCTGACCCCAATGTCACTGATA
TTGTGAGCATCGCAAGAGCTGCAAAGGAAGGTGGTGCCAATGGCGTTACAGCCACCAACACTGTCTCAGGTCTGA
TGGGATTAAAATCTGATGGCACACCTTGGCCAGCAGTGGGGATTGCAAAGCGAACTACATATGGAGGAGTGTCTG
GGACAGCAATCAGACCTATTGCTTTGAGAGCTGTGACCTCCATTGCTCGTCTCTGCCTGGATTCCCATTTTGG
CTACTGGTGAATTGACTCTGCTGAAAGTGGTCTTCAGTTTCTCCATAGTGGTGCTTCCGTCTCCAGGTATGCA
GTGCCATTGAGAATCAGGATTTCACTGTGATCGAAGACTACTGCACTGGCCTCAAAGCCCTGCTTTATCTGAAAA
GCATTGAAGAACTACAAGACTGGGATGGACAGAGTCCAGCTACTGTGAGTCACCAGAAAGGGAAACCAGTTCCAC
GTATAGCTGAACTCATGGACAAGAACTGCCAAGTTTTGGACCTTATCTGGAACAGCGCAAGAAAATCATAGCAG
AAAACAAGATTAGACTGAAAGAACAAAATGTAGCTTTTTTACCACCTTAAGAGAAGCTGTTTTATCCCCAAAAGGC
CTATTCTACCATCAAGGATGTAATAGGAAAAGCACTGCAGTACCTTGGAACATTTGGTGAATTGAGCAACGTAG
AGCAAGTTGTGGCTATGATTGATGAAGAAATGTGTATCAACTGTGGTAAATGCTACATGACCTGTAATGATTCTG
GCTACCAGGCTATACAGTTTGATCCAGAAACCCACCTGCCACCATAACCGACACTTGTACAGGCTGTACTCTGT
GTCTCAGTGTGTGCCCTATTGTGCTGACTGCATCAAAATGGTTTTCCAGGACAACACCTTATGAACCAAGAGAGGCG
TACCCCTTATCTGTGAATCCGGTGTGTTAAGGTGATTTGTGAAACAGTTGCTGTGAACTTTTCATGTACCTACATA
TGCTGATCTCTTAAATCATGATCCTTGTGTTTCAGCTCTTTCCAAATTA AAAACAAATATACATTTTCTAAATAAA
AATATGTAATTTCAAATACATTTGTAAGTGTAAAAATGTCTCATGTCAATGACCATTCAATTAGTGGCATAAA
ATAGAATAATCTTTTCTGAGGATAGTAGTTAAATAACTGTGTGGCAGTTAATTGGATGTTCACTGCCAGTTGTC
TTATGTGAAAAATTAACTTTTTGTGTGGCAATTAGTGTGACAGTTTCCAAATTGCCCTATGCTGTGCTCCATATT
TGATTTCTAATTGTAAGTGAAATTAAGCATTTTGAACAAAGTACTCTTTAACATACAAGAAATGTATCCAAGG

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FIGURE 485B

AAACATTTTATCAATAAAAAATTACCTTTAATTTTAATGCTGTTTCTAAGAAAATGTAGTTAGCTCCATAAAGTAC
AAATGAAGAAAGTCAAAAATTATTTGCTATGGCAGGATAAGAAAGCCTAAAATTGAGTTTGTGGACTTTATTAAG
TAAAATCCCCCTTCGCTGAAATTGCTTATTTTTGGTGTGGATAGAGGATAGGGAGAATATTTACTAACTAAATAC
CATTCACTACTCATGCGTGAGATGGGTGTACAACTCATCCTCITTTAATGGCATTCTCTTTAACTATGTTCC
TAACCAAATGAGATGATAGGATAGATCCTGGTTACCACTCTTTTACTGTGCACATATGGGCCCCGGAATTCTTTA
ATAGTCACCTTCATGATTATAGCAACTAATGTTTGAACAAAGCTCAAAGTATGCAATGCTTCATTATTCAAGAAT
GAAAAATATAATGTTGATAATATATATTAAGTGTGCCAAATCAGTTTGACTACTCTCTGTTTTAGTGTGTTATGTT
TAAAAGAAATATATTTTTTGTATTATTAGATAATATTTTTGTATTTCTCTATTTTCATAATCAGTAAATAGTGT
CATATAAACTCATTATCTCCTCTTCATGGCATCTTCAATATGAATCTATAAGTAGTAAATCAGAAAGTAACAAT
CTATGGCTTATTTCTATGACAAATTCAAGAGCTAGAAAAATAAAATGTTTCATTATGCACTTTTAGAAATGCATA
TTTGCCACAAAACCTGTATTACTGAATAATATCAAATAAAATATCATAAAGCATTTT

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FIGURE 486

MAPVLSKDSADIESILALNPRTQTHATLCSTS AKKLDKKHWKRNPDKNCFNCEKLENNFDDIKHTTLGERGALRE
AMRCLKCADAPCQKSCPTNLDIKSFITS IANKNYYGAAKMIFSDNPLGLTCGMVCPTSDLCVGGCNLYATEEGPI
NIGGLQQFATEVFKAMSIPQIRNPSLPPPEKMSEAYS AKIALFGAGPASIS CASFLARLGYS DITIFEKQEYVGG
LSTSEIPQFRLPYDVVNFEIELMKDLGVKII CGKSLSVNEMTLSTLKEKGYKAAFIGIGLPEPNKDAIFQGLTQD
QGFYTSKDFLPLVAKGSKAGMCACHSPLPSIRGVVIVLGAGDTAFDCATSALRCGARRVFI VFRKGFVNIRAVPE
EMELAKEEKCEFLPFLSPRKVIVKGGRIVAMQFVRTEQDET GKWNEDEDQMVHLKADVVISAFGSVLSDPKVKEA
LSP IKFNRWGLPEVDPETMQTSEAWVFAGGDVVGLANTTVESVNDGKQASWYIHKYVQSQYGASVSAKPELPLFY
TPIDLVDISVEMAGLKFINPFGLASATPATSTSMIRRAFEAGWG FALT KTFSLDKDIVTNVSPRIIRGTTSGPMY
GPGQSSFLNIELISEKTAAYWCQSVTELKADFPDNIVIASIMCSYNKNDWTELAKKSEDSGADALELNLSCPHGM
GERGMGLACGQDPELVRNICRWVRQAVQIPFFAKLTPNVTDIVSIARA AKEGGANGVTATNTVSGLMGLKSDGTP
WPAVGI AKRTTYGGVSGTAIRPIALRAVTSIARALPGFPILATGGIDSAESGLQFLHSGASVLQVCSAIQNQDFT
VIEDYCTGLKALLYLKSIEELQDWDGQSPATVSHQKGKPVPRIAELMDKKLP SFGPYLEQRKKIIAENKIRLKEQ
NVAFSPLKRSCFIPKRP IPTIKDVIGKALQYLGTFGELS NVEQVVAMIDEEMCINCGKCYMTCNDSGYQAIQFDP
ETHLEPTITDCTGCTLCLSVCP IVDCIKMVSRTTPYE PKRGVPLSVNPVC

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FIGURE 487

ATGAAGCACCTGAAGCGGTGGTGGTCGGCCGGCGGGCCCTCCTGCACCTCACCTCCTGCTGAGCTTGGCGGGG
CTCCGCGTAGACCTAGATCTTTACCTGCTGCTGCCGCCGCCACCCTGCTGCAGGACGAGCTGCTGTTCTTGGGC
GGCCCGGCCAGCTCCGCTACGCGCTCAGCCCTTCTCGGCTCGGGAGGGTGGGGGCGCGGGGCCACTTGCAC
CCCAAGGGCCGGGAGCTGGACCCTGCCGCGCCGCCGAGGGCCAGCTGCTCCGGGAGGTGCGCGCTCGGGGT
CCCTTCGTCCCTCGCACCAGCGTGGATGCATGGCTGGTGCACAGCGTGGCTGCCGGGAGCGCGGACGAGGCCCAC
GGGTGCTCGGCGCCGCCGCCCTCGTCCACCGGAGGAGCCGGCGCCAGCGTGGACGGCGGCAGCCAGGCTGTG
CAGGGGGGCGGGGACCCCGAGCGGCTCGGAGTGGCCCTTGGACGCCGGGAAGAGGAGAAGGCACCCGCG
GAACCGACGGCTCAGGTGCCGACGCTGGCGGATGTGCGAGCGAGGAGAATGGGGTACTAAGAGAAAAGCACGAA
GCTGTGGATCATAGTTCCAGCATGAGGAAAATGAAGAAAGGGTGTGAGCCAGAAGGAGAACTCACTTCAGCAG
AATGATGATGATGAAAACAAAATAGCAGAGAAACCTGACTGGGAGGCAGAAAAGACCACTGAATCTAGAAATGAG
AGACATCTGAATGGGACAGATACTTCTTCTCTCTGGAAGACTTATTCCAGTTGCTTTCATCACAGCCTGAAAAT
TCACTGGAGGGCATCTCATTGGGAGATATTCTCTTCCAGGCAGTATCAGTGATGGCATGAATCTTCAGCACAT
TATCATGTAAACTTCAGCCAGGCTATAAGTCAGGATGTGAATCTTCATGAGGCCATCTTGCTTTGTCCCAACAAT
ACATTTAGAAAGATCCAACAGCAAGGACTTCACAGTCACAAGAACCATTTCTGCAGTTAAATCTCATACCACC
AATCCTGAGCAAACCTTCTGGAACATAATTTGACAGGATTTCTTTCACCGGTTGACAAATCATATGAGGAATCTA
ACAAGCCAAGACCTACTGTATGACCTTGACATAAATATATTTGATGAGATAAACTTAATGTCAATGGCCACAGAA
GACAACCTTTGATCCAATCGATGTTTCTCAGCTTTTTGATGAACCAGATTCTGATTCTGGCCTTTCTTTAGATTCA
AGTCACAATAATACCTCTGTCATCAAGTCTAATTCCTCTCACTCTGTGTGTGATGAAGGTGCTATAGGTTATTGC
ACTGACCATGAATCTAGTTCCCATCATGACTTAGAAGGTGCTGTAGGTGGCTACTACCCAGAACCCAGTAAGCTT
TGCTACTTGGATCAAAGTGATTCTGATTTCCATGGAGATCTTACATTTCAACACGTATTTATAACCACTTAC
CACTTACAGCCAACCTGCACCAGAATCTACTTCTGAACCTTTTCCGTGGCCTGGGAAGTCACAGAAGATAAGGAGT
AGATACCTTGAAGACACAGATAGAACTTGAGCCGTGATGAACAGCGTGCTAAAGCTTTGCATATCCCTTTTTCT
GTAGATGAAATTGTCGGCATGCCTGTTGATTCTTTCAATAGCATGTTAAGTAGATATTATCTGACAGACCTACAA
GTCTCACTTATCCGTGACATCAGACGAAGAGGGAAAAATAAAGTTGCTGCGCAGAAGTGTGCTAAACGCAAAATTG
GACATAATTTTGAATTTAGAAGATGATGTATGTAACCTTGCAAGCAAAGAAGGAAACTCTTAAGAGAGAGCAAGCA
CAATGTAACAAAGCTATTAACATAATGAAACAGAACTGCATGACCTTTATCATGATATTTTTAGTAGATTAAAG
GATGACCAAGGTAGGCCAGTCAATCCCAACCACTATGCTCTCCAGTGTACCCATGATGGAAGTATCTTGATAGTA
CCCAAGAAGTGGTGGCCTCAGGCCACAAAAGGAAACCCAAAAGGGAAAGAGAAAGTGAAGAAGAACTGAAGAT
GGACTCTATTATGTGAAGTAGTAATGTTTCAGAACTGATTATTTGGATCAGAAACCATTGAAACTGCTTCAAGAA
TTGTATCTTTAAGTACTGCTACTTGAATAACTCAGTTAACGCTGTTTTGAAGCTTACATGGACAAATGTTTAGGA
CTTCAAGATCACACTTGTGGGCAATCTGGGGGAGCCACAACCTTTTCATGAAGTGCATTGTATACAAAATTCATAG
TTATGTCCAAAGAATAGGTTAACATGAAAACCCAGTAAGACTTTCCATCTTGGCAGCCATCCTTTTTAAGAGTAA
GTTGGTTACTTCAAAAAGAGCAAACTGAGGATCAAATTTATTTAAGAGGTATTTAGTTTTAAATGCAAAATA
GCCTTATTTTCAATTTAGTTTGTAGCACTATAGTGAGCTTTTCAACACTATTTAATCTTTATATTTAACTTAT
AAATTTTGCTTTCTATGGAAATAAATTTTGTATTTGTATTAAAAATTAACCTTTTCCCTTTTATACAGA

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FIGURE 488

MKHLKRWSAGGGLLHLTLLSLAGLRVDLDLYLLPPPTLLQDELLFLGGPASSAYALSPFSASGGWGRAGHLH
PKGRELDPAAPPEGQLLREVRALGVFPVPRTSVDAWLVHSVAAGSADEAHGLLGAAAASSTGGAGASVDGGSQAV
QGGGGDPRAARSGPLDAGEEEKAPAEPTAQVPDAGGCASEENGVLREKHEAVDHSSQHEENEERVSQAQKENSLOQ
NDDDENKIAEKPDWEAEKTTERNERHLNGTDTFSLEDLFQLLSSQPENSLGISLGDIPGPSISDGMNSSAH
VFSQAISQDVNLHEAILLCPNNTFRRDPTARTSQSQEPFLQLNSHTTNPEQTLPGTNLTGFLSPVDNHMRNL
LLYDLIDINIFDEINLMSLATEDNFDPIDVSQLFDEPDSDSGLSLDSSHNNNTSVIKSNSSHVCDEGAIGYC
FSSSHHDLEGAVGGYYPEPSKLCHLDQSDSDFHGDLTQHVFNHTYHLQPTAPESTSEFPWPFGKSQKIRS
LEDTRNLSRDEQRAKALHIPFSVDEIVGMPVDSFNSMLSRYYLTDLQVSLIRDIRRRGKNKVAAQNCRKRKL
NLEDDVCNLQAKKETLKREQAQCNKAINIMKQKLHDLYHDI FSRLRDDQGRPVNPNHYALQCTHDGSILIV
VASGHKKETQKGKRK

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FIGURE 489A

TCATTGCAGCTGGGACAGCCCGGAGTGTGGTTAGCAGCTCGGCAAGCGCTGCCAGGTCCTGGGGTGGTGGCAGC
CAGCGGGAGCAGGAAAGGAAGCATGTTCCAGGCTGCCACGCCTCTGGGTCTGGTGGTCTTGGGCACCAGCTG
GGTAGGCTGGGGGAGCCAAGGGACAGAAGCGGCACAGCTAAGGCAGTTCTACGTGGCTGCTCAGGGCATCAGTTG
GAGCTACCGACCTGAGCCCAAACTCAAGTTTGAATCTTTCTGTAACCTTCCTTTAAGAAAATTGTCTACAGAGA
GTATGAACCATATTTTAAGAAAGAAAAACCACAATCTACCATTTCAGGACTTCTTGGGCCCTACTTTATATGCTGA
AGTCGGAGACATCATAAAAGTTCACTTTAAAAATAAGGCAGATAAGCCCTTGAGCATCCATCCTCAAGGAATTAG
GTACAGTAAATTATCAGAAGGTGCTTCTTACCTTGACCACACATTCCCTGCAGAGAAGATGGACGACGCTGTGGC
TCCAGGCCGAGAATACACCTATGAATGGAGTATCAGTGAGGACAGTGGAACCCCATGATGACCCTCCATGCCT
CACACACATCTATTACTCCCATGAAAATCTGATCGAGGATTTCAACTCTGGGCTGATTGGGGCCCTGCTTATCTG
TAAAAAAGGGACCCTAACCTGAGGGTGGGACACAGAAGACGTTTGACAAGCAAATCGTGTCTACTATTTGCTGTGTT
TGATGAAAGCAAGAGCTGGAGCCAGTCATCATCCCTAATGTACACAGTCAATGGATATGTGAATGGGACAATGCC
AGATATAACAGTTTGTGCCCATGACCACATCAGCTGGCATCTGCTGGGAATGAGCTCGGGGCCAGAATTATTCTC
CATTCATTTCAACGGCCAGGTCCTGGAGCAGAACCATCATAAGGTCTCAGCCATCACCTTGTGCTGCTACATC
CACTACCGCAAATATGACTGTGGGCCAGAGGGAAAGTGGAATCATATCTTCTCACCCCAAAACATTTGCAAGC
TGGGATGCAGGCTTACATTGACATTAAAAACTGCCCAAAGAAAAACCAGGAATCTTAAGAAAATAACTCGTGAGCA
GAGGCGGCACATGAAGAGGTGGGAATACTTCATTGCTGCAGAGGAAGTCATTTGGGACTATGCACCTGTAATACC
AGCGAATATGGACAAAAAATACAGGTCTCAGCATTTGGATAATTTCTCAAACCAAATTGGAAAACATTATAAGAA
AGTTATGTACACACAGTACGAAGATGAGTCCTTCACCAAACATACAGTGAATCCCAATATGAAAGAAGATGGGAT
TTTGGGTCTTATTATCAGAGCCCAGGTCAGAGACACACTCAAATCGTGTTCAAAAATATGGCCAGCCGCCCTA
TAGCATTTACCCTCATGGAGTGACCTTCTCGCCTTATGAAGATGAAGTCAACTCTTCTTTACCTCAGGCAGGAA
CAACACCATGATCAGAGCAGTTCAACCAGGGGAAACCTATACTTATAAGTGGAACATCTTAGAGTTTGATGAACC
CACAGAAAATGATGCCAGTGCTTAACAAGACCATACTACAGTGACGTGGACATCATGAGAGACATCGCCTCTGG
GCTAATAGGACTACTTCTAATCTGTAAGAGCAGATCCCTGGACAGGCGAGGAATACAGAGGGCAGCAGACATCGA
ACAGCAGGCTGTGTTTGCTGTGTTTGATGAGAACAAAAGCTGGTACCTTGAGGACAACATCAACAAGTTTTGTGA
AAATCCTGATGAGGTGAAACGTGATGACCCCAAGTTTTATGAATCAAACATCATGAGCACTATCAATGGCTATGT
GCCTGAGAGCATAACTACTCTTGGATTCTGCTTTGATGACACTGTCCAGTGGCACTTCTGTAGTGTGGGGACCCA
GAATGAAATTTTGACCATCCACTTCACTGGGCACTCATTATCTATGGAAGAGGCATGAGGACACCTTGACCTT
CTTCCCCATGCGTGGAGAATCTGTGACGGTCACAATGGATAATGTTGGAACCTGGATGTTAACTTCCATGAATTC
TAGTCCAAGAAGCAAAAAGCTGAGGCTGAAATTCAGGGATGTTAAATGTATCCCAGATGATGATGAAGACTCATA
TGAGATTTTTGAACCTCCAGAATCTACAGTCATGGCTACACGGAAAATGCATGATCGTTTAGAACCTGAAGATGA
AGAGAGTGATGCTGACTATGATTACCAGAACAGACTGGCTGCAGCATTAGGAATTAGGTCAATCCGAAACTCATC
ATTGAACCAGGAAGAAGAAGAGTTCAATCTTACTGCCCTAGCTCTGGAGAATGGCACTGAATTCGTTTCTTCGAA
CACAGATATAATTGTTGGTTCAAATTATTCTTCCCCAAGTAATATTAGTAAGTTCACTGTCAATAACCTTGCGA
ACCTCAGAAAGCCCCCTTCTCACCAACAAGCCACCACAGCTGGTTCCCCACTGAGACACCTCATGGCAAGAACTC
AGTTCTCAATTCTTCCACAGCAGAGCATTCCAGCCCATATTCTGAAGACCCTATAGAGGATCCTCTACAGCCAGA
TGTCACAGGGATACGTCTACTTTCACTTGGTGCTGGAGAATTGAGAAGTCAAGAACATGCTAAGCGTAAGGGACC
CAAGGTAGAAAGAGATCAAGCAGCAAAGCACAGGTTCTCCTGGATGAAATTACTAGCACATAAAGTTGGGAGACA
CCTAAGCCAAGACACTGGTTCTCCTTCCGGAATGAGGCCCTGGGAGGACCTTCTAGCCAAGACACTGGTTCTCC
TTCCAGAATGAGGCCCTGGGAGGACCTTCTAGTGATCTGTTACTCTTAAAACAAAGTAACCTCATCTAAGATTTT
GGTTGGGAGATGGCATTGGCTTCTGAGAAAGGTAGCTATGAAATAATCCAAGATACTGATGAAGACACAGCTGT
TAACAATTGGCTGATCAGCCCCAGAATGCCTCACGTGCTTGGGGAGAAAGCACCCCTCTTGCCAACAAGCCTGG
AAAGCAGAGTGCCACCCAAAGTTTCTTAGAGTTAGACATAAATCTCTACAAGTAAGACAGGATGGAGGAAAGAG
TAGACTGAAGAAAAGCCAGTTTCTCATTAAGACACGAAAAAAGAAAAAAGAGAAGCACACACACCATGCTCCTTT
ATCTCCGAGGACCTTTCACCTCTAAGAAGTGAAGCCTACAACACATTTTCAGAAAGAAGACTTAAGCATTCGTT
GGTGCTTCATAAATCCAATGAAACATCTCTTCCACAGACCTCAATCAGACATTGCCCTCTATGGATTTTGGCTG
GATAGCCTCACTTCTGACCATAATCAGAATTCCTCAAATGACACTGGTCAGGCAAGCTGTCCTCCAGGTCTTTA
TCAGACAGTGCCCCCAGAGGAACACTATCAAACATTCCCCATTCAAGACCCTGATCAAATGCACTCTACTTCAGA
CCCCAGTCACAGATCCTCTTCTCCAGAGCTCAGTGAAATGCTTGAGTATGACCGAAGTCACAAGTCCTTCCCCAC

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FIGURE 489B

AGATATAAGTCAAATGTCCCCTTCCTCAGAACATGAAGTCTGGCAGACAGTCATCTCTCCAGACCTCAGCCAGGT
GACCCCTCTCTCCAGAACTCAGCCAGACAAACCTCTCTCCAGACCTCAGCCACACGACTCTCTCTCCAGAACTCAT
TCAGAGAAACCTTTCCCCAGCCCTCGGTTCAGATGCCATTTCTCCAGACCTCAGCCATACAACCCCTTTCTCCAGA
CCTCAGCCATACAACCCCTTTCTTTAGACCTCAGCCAGACAAACCTCTCTCCAGAACTCAGTCAGACAAACCTTTCT
TCCAGCCCTCGGTTCAGATGCCCTTTCTCCAGACCTCAGCCATACAACCATTCTCTAGACTTCAGCCAGACAAA
CCTCTCTCCAGAACTCAGCCATATGACTCTCTCTCCAGAACTCAGTCAGACAAACCTTTCCCCAGCCCTCGGTCA
GATGCCCATTTCTCCAGACCTCAGCCATACAACCCCTTTCTCTAGACTTCAGCCAGACAAACCTCTCTCCAGAACT
CAGTCAAAACAAACCTTTCCCCAGCCCTCGGTTCAGATGCCCTTTCTCCAGACCCAGCCATACAACCCCTTTCTCT
AGACCTCAGCCAGACAAACCTCTCTCCAGAACTCAGTCAGACAAACCTTTCCCCAGACCTCAGTGAGATGCCCT
CTTTGCAGATCTCAGTCAAATTTCCCCTTACCCAGACCTCGACCAGATGACACTTTCTCCAGACCTTGGTGAGAC
AGATCTTTCCCCAACTTTGGTTCAGATGTCCCTTTCCCCAGACCTCAGCCAGGTGACTCTCTCTCCAGACATCAG
TGACACCACCCCTTCTCCCGGATCTCAGCCAGATATCACCTCCTCCAGACCTTGATCAGATATTCTACCCCTTCTGA
ATCTAGTCAGTCATTGCTTCTTCAAGAATTTAATGAGTCTTTTCTTATCCAGACCTTGGTTCAGATGCCATCTCC
TTCATCTCCTACTCTCAATGATACCTTTTCTATCAAAGGAATTTAATCCACTGGTTATAGTGGGCCTCAGTAAAGA
TGGTACAGATTACATTGAGATCATTTCAAAGGAAGAGGTCCAGAGCAGTGAAGATGACTATGCTGAAATTGATTA
TGTGCCCTATGATGACCCCTACAAAACCTGATGTTAGGACAAACATCAACTCCTCCAGAGATCCTGACAACATTGC
AGCATGGTACCTCCGCAGCAACAATGGAACAGAAAGAAATTATTACATTGCTGCTGAAGAAATATCCTGGGATTA
TTCAGAATTTGTACAAAGGGAAACAGATATTGAAGACTCTGATGATATTCCAGAAGATACCACATATAAGAAAGT
AGTTTTTCGAAAGTACCTCGACAGCACTTTTACCAAACGTGATCCTCGAGGGGAGTATGAAGAGCATCTCGGAAT
TCTTGGTCTTATTATCAGAGCTGAAGTGGATGATGTTATCCAAGTTCGTTTTAAAAATTTAGCATCCAGACCGTA
TTCTCTACATGCCCATGGACTTTCTATGAAAAATCATCAGAGGGAAAGACTTATGAAGATGACTCTCCTGAATG
GTTTAAGGAAGATAATGCTGTTTCAGCCAAATAGCAGTTATACCTACGTATGGCATGCCACTGAGCGATCAGGGCC
AGAAAGTCTGGCTCTGCCTGTGCGGCTTGGGCTACTACTCAGCTGTGAACCCAGAAAAAGATATTCACTCAGG
CTTGATAGGTCCCCTCCTAATCTGCCAAAAAGGAATACTACATAAGGACAGCAACATGCCTGTGGACATGAGAGA
ATTTGTCTTACTATTTATGACCTTTGATGAAAAGAAGAGCTGGTACTATGAAAAGAAGTCCCGAAGTTCCTTGGAG
ACTCACATCCTCAGAAATGAAAAATCCCATGAGTTTACGCCATTAATGGGATGATCTACAGCTTGCCTGGCCT
GAAATGTATGAGCAAGAGTGGGTGAGGTTACACCTGCTGAACATAGGCGGCTCCCAAGACATTACAGTGGTTCA
CTTTCACGGCCAGACCTTGGTGGAAAATGGCAATAAACAGCACCAGTTAGGGGTCTGGCCCCCTTCTGCCTGGTTC
ATTTAAACTCTTGAAATGAAGGCATCAAACCTGGCTGGTGGCTCCTAAACACAGAGGTTGGAGAAAACCAGAG
AGCAGGGATGCAAACGCCATTTCTTATCATGGACAGAGACTGTAGGATGCCAATGGGACTAAGCACTGGTATCAT
ATCTGATTACAGATCAAGGCTTCAGAGTTTCTGGGTTACTGGGAGCCAGATTAGCAAGATTAAACAATGGTGG
ATCTTATAATGCTTGGAGTGTAGAAAACTTGACGAGAATTTGCCTCTAAACCTTGGATCCAGGTGGACATGCA
AAAGGAAGTCATAATCACAGGGATCCAGACCCAGGTGCCAAACACTACCTGAAGTCTCTGCTATACCACAGAGTT
CTATGTAGCTTACAGTTCCAACCAGATCAACTGGCAGATCTTCAAAGGGAACAGCACAAAGGAATGTGATGTATTT
TAATGGCAATTCAGATGCCTCTACAATAAAAGAGAATCAGTTTGACCCACCTATTGTGGCTAGATATATTAGGAT
CTCTCCAACCTCGAGCCTATAACAGACCTACCCCTTCGATTGGAAGTGAAGGTTGTGAGGTAAATGGATGTTCCAC
ACCCCTGGGTATGGAAAATGGAAAGATAGAAAACAAGCAAATCACAGCTTCTTCGTTTAAAGAAATCTTGGTGGGG
AGATTACTGGGAACCCCTTCCGTGCCCGTCTGAATGCCAGGGACGTGTGAATGCCTGGCAAGCCAAGGCAAAACAA
CAATAAGCAGTGGCTAGAAATTGATCTACTCAAGATCAAGAAGATAACGGCAATTATAACACAGGGCTGCAAGTC
TCTGTCTCTGAAATGTATGTAAAGAGCTATACCATCCACTACAGTGAGCAGGGAGTGGAATGGAAACCATAACAG
GCTGAAATCCTCCATGGTGGACAAGATTTTTGAAGGAAATACTAATACCAAAGGACATGTGAAGAATTTTTCAA
CCCCCAATCATTCCAGGTTTATCCGTGTCTATTCTAAACATGGAATCAAAGTATTGCACCTCGCCTGGAACCT
CTTTGGCTGTGATATTTACTAGAATTGAACATTCAAAAACCCCTGGAAGAGACTCTTTAAGACCTCAAACATTT
AGAATGGGCAATGTATTTTACGCTGTGTTAAATGTAAACAGTTTTCCACTATTTCTCTTTCTATTAGTGA
ATAAAATTTTATAC

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FIGURE 490

MFPGCPRLWVLVVLGTSWVGWGSQGTEAAQLRQFYVAAQGISWSYRPEPTNSSLNLSVTSFKKIVYREYEPYFKK
EKPQSTISGLLGPTLYAEVGDIIKVHFKNKADKPLSIHPQGIRYSKLSEGASYLDHTFPAEKMDDAVAPGREYTY
EWSISEDSGPTHDDPPCLTHIYYSHENLIEDFNGLIGPLLLICKKGTLTGGTQKTFDKQIVLLFAVFDESKSWS
QSSSLMYTVNGYVNGTMDITVCAHDHISWHLLGMSSGPELFSIHFNQVLEQNHHKVSAILTVSATSTTANMTV
GPEGKWIISLTPKHLQAGMQAYIDIKNCPKKTRNLKKITREQRRHMKRWEYFIAAEEVIWDYAPVIPANMDKKY
RSQHLDNFSNQIGKHYKKVMTQYEDESFTKHTVNPNMKEDGILGPIIRAQVRDTLKIVFKNMASRPYSIYPHGV
TFSPYEDEVNSSFTSGRNNMIRAVQPGETYTYKWNILEFDEPTENDAQCCLTRPYYSVDIMRDIASGLIGLLLI
CKSRSLDRRGIQRAADIEQQAVFAVFDENKSWYLEDNINKFCENPDEVKRD DPKFYESNIMSTINGYVPESITTL
GFCFDDTVQWHFCSVGTQNEILTIHFTGHSFIYGKRHEDTLTLFPMRGESVTVMNDVGTWMLTSMNSSPRSKKL
RLKFRDVKCIPDDDEDSYEIFEPPESTVMATRKMHDRLEPEDEESDADYDYNRLAAALGIRSFNRSSLNQEEEE
FNLTALENGTEFVSSNTDIIVGSNYSPPSNISKFTVMNLAEPQKAPSHQQATTAGSPRLHLIGKNSVLNSSTA
EHSSPYSEDPIEDPLQPDVTGIRLLSLGAGEFRSQEHAKRKGPKVERDQAAKHRFSWMKLLAHKVGRHLSQDTGS
PSGMRPWEDLPSQDTGSPSRMRPWEDPPSLLLLKQSNSSKILVGRWHLASEKGSYEIIQDDEDTAVNNWLISP
QNASRAWGESTPLANKPGKQSGHPKFPRVRHKSQVRQDGGKSRLKKSQFLIKTRKKKKEKHTHHAPLSPTTFHP
LRSEAYNTFSERRLKHSVLHKSNETSLPTDLNQTLP SMDFGWIASLPDHNQNSSNDTGQASCPPGLYQTVPP EE
HYQTFPIQDPDQMHSTSDPSHRSSSPELSEMLEYDRSHKSFPDTSQMSPSSEHEVWQTVISPDLSQVTLSPELS
QTNLSPDLSHTTTLSPELIQRNLSPALGQMPISPDLSHTTTLSPDLSHTTTLSDLDSQTNLSPELSQTNLSPALGQMP
LSPDLSHTTTLSDLFSQTNLSPELSHMTLSPELSQTNLSPALGQMPISPDLSHTTTLSDLFSQTNLSPELSQTNLSP
ALGQMP LSPDPSHTTTLSDLDSQTNLSPELSQTNLSPDLSEMP LFADLSQIPLTPDLQMTLSPDLGETDLSPNFG
QMSLSPDLSQVTLSPDISDTTLLPDLSQISPPPDLDQIFYPSESSQSLLLQEFNESFPYPDLGQMPSPSSPTLND
TFLSKEFNPLVIVGLSKDGTDIIEIIPKEEVQSS EDDYAEIDYVPYDDPYKTDVRTNINSSRDPDNIAAWYLRN
NGNRRNYIIAAEEISWDYSEFVQRETDIEDSDDIPEDTTYKKVVFVKYLDSTFTKRDRPGEYEEHLGILGPIIRA
EVDDVIQVRFKNLASRPYSLHAHGLSYEKSSEGKTYEDDSPWFKEDNAVQPNSSYTYVWHATERSGPESPGSAC
RAWAYYSAVNPEKDIHSGLIGPLLLICQKGILHKDSNMPVDMREFVLLFMTFDEKKSWYEEKSRSSWRLTSSEMK
KSHEFHAINGMIYSLPGLKMYEQEWVRLHLLNIGGSQDIHVVFHFGQTLL ENGNKQHQLGVWPLLP GSFKTLEMK
ASKPGWLLNTEVGENQRAGMQTFPLIMDRDCRMPMGLSTGIIISDSQIKASEFLGYWEPRLARLNNNGGSYNAWSV
EKLAAEFASKPWIQVDMQKEVIITGIQTQGAHYLKSCTTEFYVAYSSN

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FIGURE 491A

CGGGCAGCGTGGACCCCGGATGAGTTGCTTTTAGGCTTGCTGGCCCGGGGCTGTCCAGGCACGCGAGGCCCT
CAGGTACGCCCTCTCTTCCCTGCAGGATCCGGCCCTCAAAGACGAGGGTCACGCACGCGTTACAACCCCGAAACA
GTAGCACAAGATTTAATTTTAAAAGAGCGTGTTTCTTCGGGGCTTGCCGTTTCGTTTCGTTTCCAGCCTCAGGAAT
TTATGGTCGCCTTTTGAATGAGCAACAAAATGCTTCAACAAGTTCCAGAAAACATAAATTTTCTGCTGAAGAA
GAGAAAATCTTGGAGTTTGGACTGAATTTAATTGTTTTCAGGAATGCTTAAAGCAATCAAAACATAAACAAAA
TTTACCTTCTATGATGGTCCTCCTTTTGCAACTGGACTGCCTCACTATGGACATATACTTGGGGGTACAATTAAA
GATATAGTTACAAGATATGCTCACCAGAGTGGGTTTCATGTTGACAGAAGATTGGATGGGATTGCCATGGCTTA
CCTGTGGAATATGAAATTGATAAGACACTGGGAATCAGAGGACCAGAGGATGTGGCCAAAATGGGGATTACAGAG
TATAACAATCAGTGCCGAGCAATTGTGATGAGATATTCTGCTGAGTGGAAGTCTACTGTTAGCAGACTTGGCCGA
TGGATTGACTTTGACAATGACTATAAACTCTGTATCCACAATTCATGGAATCAGTCTGGTGGGTCTTCAAACAA
CTCTATGATAAAGGCCTTGTTTATAGAGGTGTGAAAGTCATGCCCTTCTCTACGGCATGTAACTCCACTTTCC
AACTTCGAGTCACACCAGAATTATAAGGATGTTCAAGATCCTTCAGTATTTGTAACCTTTCCCTTTGGAAGAAGAT
GAAACTGTATCTTTAGTTGCTTGGACAACCACTCCCTGGACTCTACCTAGTAACCTTGTGTGTGTGTTAATCCA
GAAATGCAATATGTGAAATTAAAGATGTTGCCAGAGGACGATTACTCATTTTAATGGAAGCCAGATTGTGAGCC
CTCTATAAATTGGAGAGTGACTATGAGATCCTTGAAAGATTTCTTGGTGCCTATCTTAAAGGCAAGAAGTACAGG
CCCTGTTTGACTATTTCTGAAGTGTAAGAGAATGGCGCTTTCAGTGTGCTTGTGACAACATGTGAAGGAA
GAAGAAGGCACAGGGGTTGTCCACCAAGCTCCTTACTTCGGTGCTGAGGACTATCGGGTCTGTATGGACTTTAAC
ATTATTCGGAAAGACTCACTCCCTGTTTGGCCCTGTGGATGCTTCAGGCTGCTTCACAACGGAGGTGACAGATTC
GCAGGACAGTATGTGAAGGATGCTGACAAAAGTATCATCAGGACTTTGAAGGAACAAGGCCGACTTCTGGTTGCC
ACCACCTTCACTCACAGCTACCCTTTTTGCTGGAGATCAGACACTCCTCTAATTTACAAAGCAGTGCCAGCTGG
TTTGTGCGAGTGGAGAACATGGTGGACCAGCTCCTAAGGAACAATGACCTGTGCTACTGGGTCCCAGAGTTGGTA
CGAGAAAACGATTTGGAAATTGGCTGAAAGATGCACGTGACTGGACAATTTCCAGAAACAGATACTGGGGCACC
CCCATCCCCTGTGGGTGAGCGATGACTTTGAGGAGGTGGTATGCATTGGGTGAGTGGCGGAACCTTGAAGAAGTG
TCAGGAGCAAAGATCTCAGATCTCCACAGAGAGAGTGTGACCACCTGACCATTCCCTTCACGCTGTGGGAAGGGA
TCCTTGCACCGCATCTCTGAAGTGTGTTGACTGTTGGTTTGAGAGTGGCAGCATGCCCTATGCTCAGGTTTATTAC
CCGTTTGAACAAGAGGGAGTTGAGGATGCTTTTCTGCGAGATTTTATTGCGGAGGGCATCGACCAAACCCAGA
GGATGGTTTTTATACCCTGCTGGTGTGCTGGCCACGGCCCTCTTTGGACAACCGCCTTTCAAGAACGTAATTGTGAAT
GGGCTTGCTGCTGGCAAGTGATGGCCAAAAATGAGCAAACGGAAAAAGAATTATCCAGATCCAGTTTCCATCATC
CAGAAGTATGGTGTGATGCCCTCAGATTATATCTGATTAACTCCCCTGTGGTGAGAGCAGAAAAACCTCCGCTTT
AAAGAAGAGGGTGTGCGGGACGTCCTTAAGGATGTACTGCTCCCATGGTACAATGCCTATCGCTTCTTAATCCAG
AACGTTCTGAGGCTCCAGAAGGAGGAAGAAATAGAATTTCTCTACAATGAGAACACGGTTAGAGAAAGCCCCAAC
ATTACAGACCGGTGGATCCTGTCTTTCATGCAGTCTCTCATTGGCTTCTTTGAGACTGAAATGGCAGCTTATAGG
CTTTTACTGTGGTGCCTCGCCTGGTCAAGTTTGTAGATATTCTGACCAATTGGTATGTTAGAATGAACCGCAGA
AGATTAAAGGGTGAAGATGGGATGGAGGATTGTGTGATGGCCCTAGAAACCTTGTTTAGTGTTCTGCTTCTCTT
TGCAGACTTATAGCTCCCTACACACCTTTTCTCACTGAATTGATGTACCAGAATCTAAAGGTGCTGATTGACCCT
GTTTCTGTTTCAAGACAAGGACACACTCAGCATTCACTACCTCATGCTGCCCCGTGTTTCGAGAAGAATTGATTGAC
AAGAAAACAGAGAGTGAGTATCTCAGATGCAGTCTGTGATTGAACCTTGAAGAGTGATCAGAGACCGAAAACT
ATTCCCATAAAGTATCCTTTGAAAGAAATTGTGGTTATCCATCAAGATCCAGAAGCTCTTAAAGATATCAAGTCT
TTGGAGAAGTATATCATTGAGGAACTCAATGTTTCGAAAAGTTACTGTCTACAGATAAAAAACAAGTATGGCATT
CGGCTAAGGGCAGAACCCAGATCACATGGTCTTGGGGAAGCGTCTGAAGGGAGCCTTTAAGGCAGTGATGACGTCC
ATCAAGCAGTTGAGCAGTGAGGAGCTGGAGCAGTTCCAGAAGACTGGGACCATTGTTGTGGAAGGCCATGAATTG
CACGATGAAGACATCCGCTCATGTACACCTTTGATCAGGCCACAGGTGGGACTGCGCAATTTGAAGCACACTCA
GATGCTCAGGCTTTGGTCTCTTAGATGTCACTCCTGACCAGTCAATGGTAGATGAAGGAATGGCTCGGGAAGTC
ATCAATCGCATACAGAACTTCGCAAAAAGTGCAATCTGGTTCCAAGTATGAAATCACAGTGTACTATAAAGCA
AAGTCTGAAGGAACATATCTGAATAGTGTATTGAAAGCCACACAGAGTTCATATTTACCACCATAAAGGCTCCC
TTGAAACCATATCCAGTTTCTCCATCGGATAAAGTCCTTATTCAAGAAAAACACAGTTGAAGGGATCTGAACTG
GAAATTACACTCACCAGAGGATCTTCCCTTCTGGTCTGCTTGTGCATATGTCAATCTTAACATTTGTGCAAT
GGCAGTGAACAAGGTGGAGTATTGCTCCTGGAAAATCCAAAAGGTGACAATAGGTTGGACCTTTTAAAGCTGAAG

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FIGURE 491B

AGTGTTGTCAGTACGATTTTTGGTGTGAAAAATACAGAGCTGGCTGTCTTCCATGATGAAACAGAAATACAAAAC
CAAACGACTTACTGAGTCTTAGTGGAAAAACACTTTGTGTGACTGCAGGATCGGCTCCCTCTCTGATCAACAGT
TCTAGTACTCTTCTTTGTCAGTATATCAACCTACAGCTCCTGAATGCAAAGCCACAAGAGTGTTAATGGGGACA
GTGGGCACTCTCCTGCTTGAAAACCCACTTGGGCAGAATGGACTCACCCACCAAGGTCTTCTGTATGAAGCAGCC
AAGGTGTTTGGCCTTCGGAGCAGGAAGCTAAAGCTGTTTCTGAATGAGACCCAAACGCAGGAAATTACAGAAGAC
ATCCCCGTGAAGACTTTGAATATGAAGACTGTGTATGTTTCTGTGTTACCAACAACAGCAGACTTCTAGCATGTA
CTTATCAATGTTGTTTCGGTCAGCCCTTCCCTAATTACACCTATCCCCTACACATACATGCACATAGACACACACA
TGAACACACTGAAGATATTTCTTCAGGTGTGTGTAATAATATGCTGCTTGGATTGAAATTCAAATGGGATTGATT
AGTCAAGTAACTTGAGACCTCACAGTAATCTTCACACTTAACCTTAGACACCTATGCAGTCATGTTGGGAGCAGG
TTACAATGTTACTTCAGCCACAGTTTATTTCTATTCTTGAGTTCTTAAGTACAGAAGATAGAAGTGATTAAAT
GGCATAGTATATATATCATTCTTGGCCTTTTAAATTTATTTGAGACCTCTTGATGAAATGGACATATTATATA
TTTCTGCCACCTGGATTTTCTTGATAATTTGATGGAATATTTAAGTTTCAGTAAATCAGAACAATAAACAAAC
TCAGATAT

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FIGURE 492

MLQQVPENINFPAAEEKILEFWTEFNCFOECLKQSKHKPKFTFYDGPPFATGLPHYGHILAGTIKDIVTRYAHQS
GFHVDRRFGWDCHGLPVEYEIDKTLGIRGPEDVAKMGITEYNNQCRAIVMRYSAEWKSTVSRLGRWIDFDNDYKT
LYPQFMESVWWVFKQLYDKGLVYRGVKVMPFSTACNTPLSNFESHQNYKDVQDPSVFVTFPLEEDETIVSLVAWTT
TPWTLPSNLAVCVNPEMQYVKIKDVARGRLILMEARLSALYKLESDEILERFPGAYLKGGKYRPLFDYFLKCK
AFTVLVDNYVKEEEGTGVVHQAPYFGAEDYRVCMDFNIIRKDSLPCVPVDASGCFTTEVTDFAGQYVKDADK
ILKEQGRLLVATTFTHSYPFCWRSDTPLIYKAVPSWVVRVENMVDQLLRNNDLCYWPELVREKRFGNWLK
DWTISRNYWGTP IPLWVSDDFEEVVCIGSVAELEELSGAKISDLHRESVDHLTIPSRCKGSLHRISEVFD
WESGSMPIYAQVHYPPFENKREFEDAFPADFAEGIDQTRGWFTLLVLATALFGQPPFKNVIVNGLVLASDGQK
PKKNYPDPVSI IQYGADALRLYLINSPVVRANLRFKEEGVRDVLKDVLLPWYNAYRFLIQNVLRRLQKEE
YNENTVRESPNITDRWILSFMQSLIGFFETEMAAAYRLYTVPRLVKFVDILTWNVYRMNRRRLKGENGMED
AETLFSVLLSLCRLIAPYTPFLT ELMYQNLKVLIDPVSVDKDTLSIHYLMLPRVREELIDKKTESAVSQM
ELGRVIRDRKTIPIKYPLKEIVVIHQDPEALKD IKSLEKYIEELNVRKVTLSTDKNKYGIRLRAEPDHMV
MRLKGAFAKAVMTSIKQLSSEEELEQFQKTGTIVVEGHELHDEDIRLMYTFDQATGGTAQFEAHSDAQALVLLDV
QSMVDEGMAREVINRIQKL RKKCNLVPTDEITVYYKAKSEGTYLNSVIESHTEFIFTTIKAPLKPYPVSPSD
VLIQEKTLQKGSELEITLTRGSSLPGPACAYVNLNICANGSEQGGVLLLENPKGDNRLDLLKLKSVVTSIFGVK
NIELAVFHDETEIQNTDLLSLSGKTL CVTAGSAPSLINSSSTLLCQYINLQLLNAKPQECLMGTVGTLLLENPL
GQNGLTHQGLLYEAAKVFLRSRKLKFLNETQTQEITEDIPVKTLNMKTVYVSVLPPTADF

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FIGURE 493

CTGCGAGGAGTCACATTAACTTTGCTCTAGAAGACAACCTTTACAAGGATCTAAAAGGAACAGGATTAAAGATGAC
TGAATACTGGGTTCCAGAAATTTAAACAATCAGCTTAGCAAATCATATATTCTTCTGTGGAGCTGAGAATTGAT
GTCCGCTCTTCCCGTGATTTGGAACCTTTCCAATCCCAGAGAAAAGTTGACAAAGGGACTGCCAGGACTGAGTC
CATATGGAAGAAGAACTTCCTCTTTTCTCTGGAGACAGTGGCAAGCCAGTACAGGCTACTCTGTCTCTTTGAAG
ATGTTAGATGTGGGAAAGTGGCCAATTTTTTCCCTTTGTTCTGAAGAAGAACTACAGTTAATTCGTCAGGCTTGT
GTCTTTGGCAGTGCTGGCAATGAAGTTTATACACTACAGTAAATGATGAGATTTTTGTGCTTGGCACAAACTGC
TGTGGCTGTTTGGGGTTAGGTGACGTCCAGAGCACCATTGAACCTCGGAGACTGGATTCTTTAAATGGCAAAAAA
ATAGCCTGCCTCAGCTATGGGAGTGGTCCACATATTGTCCTTGCAACAACAGAAGGAGAAGTCTTTACCTGGGGT
CATAATGCTTATAGCCAGCTGGGCAATGGGACAACATAATCATGGTTTAGTGCCCTGTCTATCTCTACTAATCTG
TCAAACAAACAAGTCATTGAAGTTGCCTGTGGGTCTTACCATTCTTTGGTGCTAACATCTGATGGAGAGGTATTT
GCCTGGGGTTATAATAACTCTGGGCAGGTAGGATCTGGATCAACAGTTAATCAGCCAATCCCTCGAAGAGTCACT
GGCTGCCTACAAAATAAAGTAGTTGTGACCATAGCATGTGGGCAGATGTGCTGCATGGCAGTAGTAGACACGGGG
GAGGTCTATGTCTGGGGTTACAACGGAAACGGGCAGCTTGGACTCGGCAACAGTGGCAACCAGCCAACCCCTTGC
AGAGTGGCAGCTTTGCAAGGCATCCGTGTCCAGAGGGTCGCCCTGTGGCTACGCACACACATTAGTATTAACAGAT
GAAGGCCAAGTGTATGCTTGGGGCGCCAATCTTATGGGCAGTTGGGCACTGGCAATAAAAGCAACCAGTCCAT
CCTACTCCTGTCACTGTGGAAGAGGACAGGATTATCGAGATTGCAGCCTGTCACTCCACACACAGTCTGCGGCC
AAGACGCAGGGTGGGCACGTGTACATGTGGGGCCAGTGCCGGGGTCACTCCGTGATCCTCCCGCACCTCACCCAC
TTCTCCTGCACTGACGACGTGTTTGCTGCTTTGCCACGCCCGCCGTCACGTGGCGCCTCCTCTCCGTGGAACCT
GATGACCACCTCACAGTGGCTGAGTCACTGAAGAGGGAATTTGACAACCCGGACACTGCAGACCTGAAGTTTCTA
GTTGATGGAAAGTACATTTATGCACATAAAGTCCTTCTCAAGATTGATGTGAGCATTTTCGTTTCGTCATTGGAA
GATAACGAGGATGATATTGTAGAAATGAGTGAATTTTCATATCCTGTTTACCGGGCCTTCTGGAATACCTATAC
ACAGACAGCATCAGCCTTTCTCCTGAGGAGGCAGTAGGACTGCTAGACTTTGGCTACATTTTATAGAGAAAATCGT
TTGAAAAGCTCTGCCAACAACTATCAAGCAAGGCATCTGCGAGGAGAATGCCATCGCTCTGCTCTCGGCTGCG
GTGAAGTATGATGCACAGGATTTAGAAGAATTCTGCTTCAGGTTTTGCATAAACCATCTGACTGTAGTAACACAA
ACATCAGGTTTTGCAGAAATGGACCATGATCTCCTGAAGAACTTTATCAGCAAAGCAAGCAGAGTTGGAGCCTTT
AAAAATTGATCCCATCTGCAGGAAAGTTTTTGAGCCTTTCCATTTCCCCTGCAAAAGCCAGAGATGAATCACTTC
TCTTTAATTAATAGTATGTATGATGAGCTATGTTTGGCTGAGTACTTGTAAGTGTGAGAAAGGATGGTGGTGA
GTGGTCTTTGTCTGCCTAAACCCAGAGTTTATGTAGAAAGCATTGAATGTTCTGATCAGATGTGACTAAGGTCAA
GGAAAAAAATGAAATATCTTATTTACCATTTCCTCTTTTGTAGTCACTTAAATTGGACACCTTTGGTACCCTG
GTCTCAGTATATGCTATTCTGGCCCAATGTTCCATTATTCAGCTGGCTGATACCACATAGATAGCTTGACAAGG
AGTGCTGTCTGTCTTACCACATTTTCAGCACTCAGCACAGTGCCTTGTGTATAATAGGCACTCAATTTATTATA
AATCTTCAGTATGTCTGAGAACAGCTTTAGTCATGGAATACTGGGAGAAGGAATAACTTTCACAAAATAAACTT
AAAACAGCCTGTAATTATTGAGGTTACATTTCTCTGGTATATCATTCTGAGAAATTGTGGCTAATTTAGAACAT
TGTTTAGAATTGACAAAAGGCCCTGGCAATTAATTGTCAAGGCCCAAGGGCTAATTTAATTTCTTTTACTT
GGAGTCATTCAATTAATTTCTCACATGGGATTATGGAGTATGAAGTATTATCTTTGAATGAAATTCCTGGGCTGAT
CTGCCTTACATAATCACATAAGGTCTTTGCTTTTCTTTGTGTTAAGAGGGACTTGCCTCTGTAAATGAAAATGA
CAATGTGCTTTTCTGTAGTTGACTTTTCATGTCACTCACTATAAAATAGGTCTCTTAACCTGGCACCAGTATAAC
TATAAAGCACTAGCTGAGAAGGAAGTACTTACATTTTCATGGACAGCATTAACAAGAAATGAGATAAATTTGTA
CTTTTGTAGATCAAAAACAAATTACCTAATTGCAAAAGAGAACTGAAATGGAACATAGTCTCAGATTCTTCTAATG
TGTATCTCACAAATGTCAATGTAATGTAAGGAAACCTTTTGAATTAGAATTCTTGTCTGATGCTGAACATTTT
GGTAATAAAGTGCTTATTTGCAGATAACAG

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FIGURE 494

MEEELPLFSGDSGKPVQATLSSLKMLDVGKWPIFSLCSEEEELQLIRQACVFGSAGNEVLYTTVNDEIFVLGTNCC
GCLGLGDVQSTIEPRRLDSLNGKKIACLSYGSGPHIVLATTEGEVFTWGHNAYSQLGNGTTNHGLVPCHISTNLS
NKQVIEVACGSYHSLVLTSDGEVFAWGYNNNSGQVGSSTVNQPIPRRVTGCLQNKVVVTIACGQMCCMAVVDTGE
VYVWGYNGNGQLGLGNSGNQPTPCRVAALQGIRVQRVACGYAHTLVLTDEGQVYAWGANSYGQLGTGNKSNQSYP
TPVTVEKDRIIEIAACHSTHTSAAKTQGGHVYMWGQCRGQSVILPHLTHFSCTDDVFACFATPAVTWRLLSVEPD
DHLTVAESLKREFDNPDTADLKFLVDGKYIYAHKVLLKIRCEHFRSSLEDNEDDIVEMSEFSYPVYRAFLEYLYT
DSISLSPEEAVGLLDLATFYRENRLKKLCQQTIKQGICEENAIALLSAVKYDAQDLEEF CFRFCINHLTVVTQT
SGFAEMDHDLLKNFISKASRVGAFKN

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FIGURE 495

GGCAGGAGGCAGGCCACCCGCCGCTAAGCTGAGAAGGGAGAGCGAGCTTAGGACCGCCTGCCCGGGGCAACCCCG
AACCAAGCTTTAGCCGCCGAGGCCGCGTGTCCCAAAGGCCAGTCATCCCTCCTCTGTGTTGCCATGGGAATTCAA
GGCCTGGCCAAACTAATTGCTGATGTGGCCCCAGTGCCATCCGGGAGAATGACATCAAGAGCTACTTTGGCCGT
AAGGTGGCCATTGATGCCTCTATGAGCATTATCAGTTTCCTGATTGCTGTTCCGCCAGGGTGGGGATGTGCTGCAG
AATGAGGAGGGTGAGACCACCAGCCACCTGATGGGCATGTTCTACCGCACCATTCGCATGATGGAGAACGGCATC
AAGCCCGTGTATGTCTTTGATGGCAAGCCGCCACAGCTCAAGTCAGGCGAGCTGGCCAAACGCAGTGAGCGGCGG
GCTGAGGCAGAGAAGCAGCTGCAGCAGGCTCAGGCTGCTGGGGCCGAGCAGGAGGTGGAAAAATTCACTAAGCGG
CTGGTGAAGGTCACCTAAGCAGCACAATGATGAGTGCAAACATCTGCTGAGCCTCATGGGCATCCCTTATCTTGAT
GCACCCAGTGAGGCAGAGGCCAGCTGTGCTGCCCTGGTGAAGGCTGGCAAAGTCTATGCTGCGGCTACCGAGGAC
ATGGACTGCCTCACCTTCGGCAGCCCTGTGCTAATGCGACACCTGACTGCCAGTGAAGCCAAAAGCTGCCAATC
CAGGAATTCACCTGAGCCGGATTCTGCAGGAGCTGGGCCTGAACCAGGAACAGTTTGTGGATCTGTGCATCCTG
CTAGGCAGTGACTACTGTGAGAGTATCCGGGGTATTGGGCCCAAGCGGGCTGTGGACCTCATCCAGAAGCACAAAG
AGCATCGAGGAGATCGTGGCGGCGACTTGACCCCAACAAGTACCCTGTGCCAGAAAATTGGCTCCACAAGGAGGCT
CACCAGCTCTTCTTGGAACCTGAGGTGCTGGACCCAGAGTCTGTGGAGCTGAAGTGGAGCGAGCCAAATGAAGAA
GAGCTGATCAAGTTCATGTGTGGTGAAGAGCAGTTCTCTGAGGAGCGAATCCGCAGTGGGGTCAAGAGGCTGAGT
AAGAGCCGCCAAGGCAGCACCCAGGGCCGCTGGATGATTTCTTCAAGGTGACCGGCTCACTCTCTTCAGCTAAG
CGCAAGGAGCCAGAACCCAAGGGATCCACTAAGAAGAAGGCAAAGACTGGGGCAGCAGGGAAGTTTAAAGGGGA
AAATAAATGTGTTTCCCCATTATACCTCCTTCACCCCAAGATATTGCGCTCTTGTACCCTTAAGAGCTACAGCT
AGAGAAACCTTCACGGGGTGGAGAGAGGATTCTAAGGCTTTTCTAGCGTGACCCTTTTTCAGTAGTGCTAGTCCCT
TTTTTACTTGATCTTAATGGCAAGAAGGCCACAGAGGTACTTTTCTTTTTTAGCTCAGGAAAATATGTCAGGCT
CAAACCACTTCTCAGGCAGTTTAATGGACACTAAGTCCATTGTTACATGAAAGTGATAGATAGCAACAAGTTTG
GAGAAGAGAGAGGGAGATAAAAGGGGGAGACAAAAGATGTACAGAAATGATTTTCCTGGCTGGCCAACTGGTGGCC
AGTGGGAGGTGATGGTGGACCTAGACTGTGCTTTTCTGTCTTGTTCAGCCTTGACCCACCTTGAGAGAGAGCCAC
CAGGAAGGCGCATCTTAGCAGATGGGAGGAACTGCTGAGAGAAGATGGGCAGAAAGCTGGAGCCCCCTGGAGTTGG
CTGTGTCTGTGTTTGTGACTGATTACTGGCTGTGTCTTGGGTGGGCAGAACTCGAACTTGCTATGTAATTTGTG
TCTAGTTATTAGAGGAGTAAGATGGTGATGTTACCTGGCAATCAGCTGAGTTGAGACTTTGGAATAAGACACT
GGTTTTCATGCGCTGTTTTTGTTTTAAAGTTATGAAGAAAAAAGTCAATAAAATTCTAAAAGTAAAAAAAAAAAA
AAAAAA

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FIGURE 496

MGIQGLAKLIADVAPSAIRENDIKSYFGRKVAIDASMSIYQFLIAVRQGGDVLQNEEGETTSHLMGMFYRTIRMM
ENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAQAAGAEQEVEKFTKRLVKVTKQHNDCKHLLSLMGI
PYLDAPSEAEASCAALVKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLPIQEFHLSRILQELGLNQEQQFVD
LCILLGSDYCESIRGIGPKRAVDLIQKHKSIEEIVRRDPNKYPVPENWLHKEAHQLFLEPEVLDPESVELKWSE
PNEEELIKFMCGEKQFSEERIRSGVKRLSKSRQGSTQGRLDFFKVTGSLSSAKRKEPEPKGSTKKKAKTGAAGK
FKRGK

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FIGURE 497

[illegible]

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FIGURE 498

MLGIWTLLPLVLTSSVARLSSKSVNAQVTDINSGLELRKTVTTVETQNLLEGLHHDGQFCHKPCPPGERKARDCTV
NGDEPDCVPCQEGKEYTDKAHFSSKRRRCRLCDEGHGLEVEINCTRTQNTKCRCKPNFFCNSTVCEHCDPCTKCE
HGIIECTLTSTNTKCKEEGSRNLGWLCLLLLP IPLIVWVKRKEVQKTCRKHRKENQGSHEPTLNPETVAINLS
DVDLSKYITTIAGVMTLSQVKG FVRKNGVNEAKIDEIKNDNVQDTAEQKVQLLRNWHQLHGKKEAYDTLIKDLKK
CTLAEKIQTIIILKDITSDSENSNFRNEIQSLV

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FIGURE 499

CGAGCGTCGGGTCCCAGAGCCGGGCGCGGCTGGGGCCCGAGGCTAGCATCTCTCGGGAGCCGCAAGGCGAGAGCT
GCAAAGTTTAATTAGACACTTCAGAATTTTGATCACCTAATGTTGATTTTCAGATGTAAAAGTCAAGAGAAGACTC
TAAAAATAGCAAAGATGCTTTTGAGCCAGAATGCCTTCATCGTCAGATCACTTAATTTGGTTCTCATGGTGTATA
TCAGCCTCGTGTTTGGTATTTTCATATGATTGCGCTGATTACACAGATGAATCTTGCACTTTCAAGATATCATTGC
GAAATTTCCGGTCCATCTTATCATGGGAATTAAAAAACCACTCCATTGTACCAACTCACTATACATTGCTGTATA
CAATCATGAGTAAACCAGAAGATTTGAAGGTGGTTAAGAACTGTGCAAAATACCACAAGATCATTTTGTGACCTCA
CAGATGAGTGGAGAAGCACACACGAGGCCTATGTACCCGTCCTAGAAGGATTCAGCGGGAACACAACGTTGTTCA
GTTGCTCACACAATTTCTGGCTGGCCATAGACATGTCTTTTGAACCACCAGAGTTTGAGATTGTTGGTTTTACCA
ACCACATTAATGTGATGGTGAAATTTCCATCTATTGTTGAGGAAGAATTACAGTTTGATTTATCTCTCGTCATTG
AAGAACAGTCAGAGGGAATTGTTAAGAAGCATAAAACCCGAAATAAAAGGAAACATGAGTGGAAATTTACCTATA
TCATTGACAAGTTAATTCCAAACACGAACCTACTGTGTATCTGTTTATTTAGAGCACAGTGTAGCAAGCAGTAA
TAAAGTCTCCCTTAAATGCACCCTCCTTCCACCTGGCCAGGAATCAGAATTTTCATTAACCTTTTAGCCTGGCCA
TTTCCTAACCTGCCACCCTTGGAAGCCATGGATATGGTGGAGGTCATTTACATCAACAGAAAGAAGAAAGTGTGG
GATTATAATTATGATGATGAAAGTGATAGCGATACTGAGGCAGCGCCAGGACAAGTGGCGGTGGCTATACCATG
CATGGACTGACTGTCAGGCCTCTGGGTGAGGCCTCTGCCACCTCTACAGAATCCCAGTTGATAGACCCGGAGTCC
GAGGAGGAGCCTGACCTGCCTGAGGTTGATGTGGAGCTCCCCACGATGCCAAAGGACAGCCCTCAGCAGTTGGAA
CTCTTGAGTGGGCCCTGTGAGAGGAGAAAGAGTCCACTCCAGGACCCTTTTCCGAAGAGGACTACAGCTCCACG
GAGGGGTCTGGGGGAGAAATTACCTTCAATGTGGACTTAACTCTGTGTTTTTGAGAGTTCTTGATGACGAGGAC
AGTGACGACTTAGAAGCCCCTCTGATGCTATCGTCTCATCTGGAAGAGATGGTTGACCCAGAGGATCCTGATAAT
GTGCAATCAAACCATTTGCTGGCCAGCGGGGAAGGACACAGCCAACCTTTCCAGCCCCTCTTCAGAGGGCCTG
TGGTCCGAAGATGCTCCATCTGATCAAAGTGACACTTCTGAGTCAGATGTTGACCTTGGGGATGGTTATATAATG
AGATGACTCCAAAACCTATTGAATGAACCTGGACAGACAAGCACCTACAGGGTTCTTTGTCTCTGCATCCTAACTT
GCTGCCTTATCGTCTGCAAGTGTTCTCCAAGGGAAGGAGGAGGAACTGTGGTGTTCCTTTCTTCCAGGTGACAT
CACCTATGCACATTCCCAGTATGGGGACCATAGTATCATTCAAGTGCATTGTTTACATATTCAAAGTGGTGCATT
TGAAGGAAGCACATGTGCACCTTTCCTTTACACTAATGCACCTAGGATGTTTCTGCATCATGTCTACCAGGGAGC
AGGGTTCCCCACAGTTTCAGAGGTGGTCCAGGACCCTATGATATTTCTCTTCTTTCGTTCTTTTTTTTTTTTTT
TTGAGACAGAGTCTCGTTCTGTGCCCCAAGCTGGAGCGCAATGGTGTGATCTTGGCTCACTGCAACATCCGCCTC
CCAGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCTCGCAAGTAGCTGGGATTACAGGCGCCTGCCACCATGCCTA
GCAAATTTTTGTATTTTTAGTAGAGACAGGATTTTACCATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAAG
TGATCTGCCCTCCTCAGCCTCGTAAAGTGCTGGGATTACAGGGGTGAGCCGCTGTGCCTGGCTGGCCCTGTGATA
TTTCTGTGAAATAAATTGGGCCAGGGTGGGAGCAGGGAAAGAAAAGGAAAATAGTAGCAAGAGCTGCAAAGCAGG
CAGCAAGGGAGGAGGAGAGCCAGGTGAGCAGTGGAGAGAAGGGGGGCCCTGCACAAGGAAACAGGGAAGAGCCAT
CGAAGTTTCAGTCGGTGAGCCTTGGGCACCTACCCATGTACATCCTGTCTCCTGCAATTGGAATTCACCTTGT
CCAGCCCTCCCCAGTTAAAGTGGGGAAGACAGACTTTAGGATCACGTGTGTGACTAATACAGAAAGGAAACATGG
CGTCGGGGAGAGGGATAAAACCTGAATGCCATATTTTAAGTTAAAAA

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FIGURE 500

MLLSQNAFIVRSLNLVLMVYISLVFGISYDSPDYTDESCTFKISLRNFRSILSWELKNHSIVPTHYTLTYTIMSK
PEDLKVVKNCANTRSFCDLTDEWRSTHEAYVTVLEGFSGNTTLFSCSHNFWLAIDMSFEPPEFEIVGFTNHINV
MVKFPSIVEEELQFDLSLVIEEQSEGIVKKHKPEIKGNMSGNFTYIIDKLIPNTNYCVSVYLEHSDEQAVIKSPL
KCTLLPPGQESEFS

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FIGURE 501

GGAGTCGACCGCTCGGGCAGCGCACCGCCACGAGAGCCCGGGACGCGGGAAAGACCGAAAGGAAGAGGAAGAGGC
ACCGGTGGCCATGGGGCTGGAGGCGGCGCGCGAGCTGGAGTGC GCGGCGCTGGGCACGCTGCTGCGGGATCCGCG
GGAGGCGGAACGCACGCTGCTGCTGGACTGCCGCCCTTCTGTCCTTCTGCCGCGCCACGTGCGCGCCGCGCG
GCCAGTGCCTTGGAACGCGCTGCTGCGGCGCGCGCGCGCGGCCCTCCTGCCGCGCTTCTCGCCTGCCTGCTGCC
CGACCGCGCGCTGCGGACGCGCCTGGTCCGCGGGGAGCTGGCGCGGGCCGTGGTGTGGACGAGGGCAGTGCCTC
GGTGGCGGAGCTCCGGCCCCGACAGCCCGGCTCATGTGCTGCTGGCCGCGCTGCTGCACGAGACCCGCGCGGGGCC
CACTGCCGTGTACTTCTGCGAGGAGGCTTCGACGGCTTCCAGGGCTGCTGTCCCGATCTGTGCTCTGAGGCCCC
CGCCCCTGCGCTGCCGCCAACAGGGGACAAAACAGCCGCTCCGACTCCAGGGCTCCTGTCTACGACCAGGGTGG
CCCTGTGGAGATCTTGCCCTACCTGTTCTGCGGAGCTGCAGTCACTCGTCAGACCTGCAGGGGCTGCAGGCCTG
TGGCATCACAGCCGTCTCAACGTGTCCGCCAGCTGCCCCAACCACTTTGAGGGCCTTTTCCGCTACAAGAGTAT
CCCTGTGGAGGACAACCAGATGGTGGAGATCAGTGCCTGGTTCCAGGAGGCCATAGGCTTCATTGACTGGGTGAA
GAACAGCGGAGGCGGGTGCTGGTGCAGTGCAGGCGGGTATCTCGCGCTCTGCCACCATCTGTCTGGCATACT
CATGCAGAGTCGCCGTGTGCGGCTGGACGAGGCCTTTGACTTCGTTAAGCAGCGCGGGGGGTATCTCCCCAA
CTTCAGTTTCATGGGGCAGCTGCTGCAGTTTGAGACCCAGGTGCTGTGTCACTAGAGGTGGTGGCCCTCTGCCTGC
CTGCCCCACTGTGCTGGCAGGAGCTGACTGTGGACTGGTGGGCTCCCCCTCTGGGCCAGCACAGTCCCCTCACCTC
CGGCAGGGCTGCTACCTCCTCAGAGTTTCAGAAAGCCCCACATGGGGGCTCTAGGAATGCCGGCATGCTGGTCTT
TCCGACCTGGTGTCTTCTGCTGGGGGACTGAGGCTGGCCCTCATTCGGGGTCGGGAACCAAGGGTGTGTCTGCT
CTTTCCCTCCCCATCCTCTGGCAGAAATCAGCTAGACGCTATACCGTGGACTCTCCCTGGTCCACCACCATGTTG
AAGCCCTTGGCAGCCTGAGAGCTCCAAGGAACAAGCTGTGACAACCAGGAGCCCTGTCTGTGGGTTCGTCTGCCC
AGGGCCTGGAGCCCAAGCCCTGTGTTCTTGGGAAGCTGGGGACTTGGGAAGTGATGGGTGTGTCAATGTTGCGTG
TGTCTGTCTGTGAGCCTTTCACACCTGTGCTGGCGCTGGAAAATTATTTGTGCTCAGCTGACATTTAACACTTCC
TCCCCGCTTCTCCTAGCCCTGTGGGCAGGGGTGGAAACTTAGCACTTTATATTTATACAGAACATTCAGGAT
TTGTCAATAAAATATTGTTATATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 502

MGLEAARELECAALGTLLRDPREAERTLLLLDCRPFLAFCRRHVRAARPVPWNALLRRRRARGPPAAVLACLLPDRA
LRTRLVRGELARAVVLDEGSASVAELRPDSPAHVLLAALLHETRAGPTAVYFLRGGFDGFGGCCPDLCSEAPAPA
LPPTGDKTSRSDSRAPVYDQGGPVEILPYLFLGSCSHSSDLQGLQACGITAVLNVSASCPNHFEGLFYKSIPIVE
DNQMVEISAWFQEAIGFIDWVKNSGGRVLVHCQAGISRSATICLAYLMQSRVRRLDEAFDFVKQRRGVISPNEFSF
MGQLLQFETQVLCH

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FIGURE 503

GCATGGCGGCCACCAGGTGCCTGCGCTGGGGCCTGAGCCGAGCCGGAGTCTGGCTGCTCCCACCGCCCGCACGGT
GCCCACGCCGGGCGCTGCACAAGCAGAAAGACGGCACTGAGTTCAAGAGCATCTACAGCCTGGACAAGCTCTACC
CCGAATCTCAGGGCTCGGACACCGCCTGGAGGGTCCCGAATGGTGCAAAGCAAGCCGACAGTGACATCCCTCTAG
ATCGCTTGACAATATCTTATTGTCGGAGTAGTGGTCCTGGGGGGCAGAATGTGAACAAAGTGAATTCCAAGGCAG
AAGTCAGGTTCCATTTGGCAACTGCCGAGTGGATCGCGGAGCCCGTGCGGCAGAAGATAGCCATCACGCATAAAA
ACAAGATCAACAGGTTAGGAGAGTTGATCCTTACCTCTGAGAGCAGCCGCTATCAGTTCGGAATCTGGCAGATT
GCCTGCAGAAAAATTCGAGACATGATCACTGAGGCCAGCCAGACACCGAAGGAGCCAACAAAAGAAGATGTTAAAC
TTCATAGAATCAGGATAGAAAACATGAATCGGGAAAGGCTGAGACAAAAGAGAATTCATTCTGCTGTAAAGACAA
GCAGGAGGGTCGACATGGACTGAAATCACCTCTGCAGCTGGGAGGGCTCTTCTGGGCGTCCGGGCAGCTGCAGC
TGAGAGGACTTTACACCATAAGGAGATTTCTGTTTTCTTTTTGGCTGTTAATGCTTGTCTATAACATTGGAGC
CATCACAAGAATGTTCAATTTGGAATGAAGGCTGCAGGCACTGGTTGCAGACGTCTTTATAGGCAGTCACCATGTT
GTCAAACCTTAATAATGCACCTCATGTATTAGTCACAATAAAAAATCAGAACTCAAAAAAAAAA

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FIGURE 504

MAATRCCLRWGLSRAGVWLLPPPAPRCPRRALHKQKDGTEFKSIYSLDKLYPESQGSdTAWRVPNGAKQADSDIPLD
PLTISYCRSSGPGGQNVNKNVNSKAEVRFHLATAEWIAEPVRQKIAITHKNKINRLGELILTSESSRYQFRNLADC
IQKIRDMITEASQTPKEPTKEDVKLHRIRIENMNRERLRQKRIHSAVKTSRRVDM

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FIGURE 505

CGGTCTGCCAGGAGCTACGGCCGGAAGATGGCGGCGGCCGAGAGTTGTCGCTACTGGAGAAGTCCCTGGGACTG
AGTAAGGGGAATAAATACAGTGCTCAGGGCGAGCGACAGATTCCAGTTCTTCAGACAAACAATGGTCCAAGTCTA
ACAGGATTGACTACTATAGCAGCTCATCTAGTCAAGCAAGCCAACAAAGAATATTTGCTGGGGAGTACTGCAGAA
GAAAAAGCAATCGTTCAGCAGTGTTAGAATACAGGGTCACTCAAGTAGATGGGCACTCCAGTAAAAATGACATC
CACACACTGTTGAAGGATCTTAATTCATATCTTGAAGATAAAGTCTACCTTACAGGGTATAACTTTACATTAGCA
GATATACTATTGTACTATGGACTTCATCGCTTTATAGTTGACCTGACAGTTCAGAAAAGGAGAAATATCTTAAT
GTGTCTCGCTGGTTTTGTCACATTACAGCATTATCCAGGCATCAGGCAACATCTGTCTAGTGTGTCTTCATCAAG
AACAGACTATATACTAATTCCCACTAGAAAGCTGTCCATGCCATACAGAAGATCTATTAAAAGTGTTTTAAATGGA
AAATGTACTCTAGACCACAGGACTAATGTAAATTAATATACAGTCATTCATTATTTGTTGAAGTTGATAGAATTT
TTGAAGTGTAACCTTGTTGCTGAATGTTTTATTTGTTCTTTAGCTGAAGTTTTGCAATTTTTATGTCAAATTC
ATTGCTATTAAACAAGTTGAGATCCAGTTATAAATTAACCTTGTTTTAGTAGATGACATTTATTTCAATAAAAG
TTGCAAAATCGGGCTTAATCTTAAATTTGGTGGTCATTTCAATGGTTGACATATTTGGCTATTTATTAACCTCTCT
TTCATATTCTAAAATTCATTTTCCCCTTATGGATATTTATGGTAGTTTGTTAAGAACTGATAAATTGTGCCAAGG
AAGCCAAAAGGGAAGACAGATGGATTTGTTTTAAATGTTTATGTGAGCTAGTAAATGTGGGAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 506

MAAAAELSLLEKSLGLSKGNKYSAQGERQIPVLQTNNGPSLTGLTTIAAHLVKQANKEYLLGSTAEKAIVQOWL
EYRVTQVDGHSSKNDIHTLLKDLNSYLEDKVYLTGYNFTLADILLYYGLHRFIVDLTVQEKEKYLNVS RWFCHIQ
HYPGIRQHLSSVVF IKNRLYTNSH

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FIGURE 507A

AAAGAGCTGGAGGCGCGCAGGCCGGCTCCGCTCCGGCCCCGGACGATGCGGCGCGCCCAGGATGCTGCCGTGCCT
CGTAGTGCTGCTGGCGGCGCTCCTCAGCCTCCGTCTTGGCTCAGACGCTCATGGGACAGAGCTGCCAGCCCTCC
GTCTGTGTGGTTTGAAGCAGAATTTTTCCACCACATCCTCCACTGGACACCCATCCCAAATCAGTCTGAAAGTAC
CTGCTATGAAGTGGCGCTCCTGAGGTATGGAATAGAGTCCTGGAATCCATCTCCAATGTAGCCAGACCCTGTC
CTATGACCTTACCGCAGTGACCTTGGACCTGTACCACAGCAATGGCTACCGGGCCAGAGTGGGGCTGTGGACGG
CAGCCGGCACTCCAATGGACCGTCACCAACACCCGCTTCTCTGTGGATGAAGTGACTCTGACAGTTGGCAGTGT
GAACCTAGAGATCCACAATGGCTTCATCCTCGGGAAGATTAGCTACCCAGGCCCAAGATGGCCCCCGCAATGA
CACATATGAAAGCATCTTCAGTCACTTCCGAGAGTATGAGATTGCCATTTCGAAGGTGCCGGGAAACTTCACGTT
CACACACAAGAAAGTAAACATGAAAACCTCAGCCTCCTAACCTCTGGAGAAGTGGGAGAGTTCTGTGTCCAGGT
GAAACCATCTGTGCTTCCCGAAGTAACAAGGGGATGTGGTCTAAAGAGGAGTGATCTCCCTCACCAGGCAGTA
TTTACCCTGACCAACGTCATCATCTTCTTTGCCTTTGTCTGCTGCTCTCCGGAGCCCTCGCCTACTGCCTGGC
CCTCCAGCTGTATGTGCGGCGCCGAAAGAAGCTACCCAGTGCTCTGCTCTTCAAGAAGCCAGCCCCCTTCATCTT
CATCAGCCAGCGTCCCTCCCCAGAGACCCAAGACACCATCCACCCGCTTGATGAGGAGGCCTTTTTGAAGGTGTC
CCCAGAGCTGAAGAATTTGGACCTGCACGGCAGCACAGACAGTGGCTTTGGCAGCACCAAGCCATCCCTGCAGAC
TGAAGAGCCCCAGTTCTCCTCCCTGACCCCTCACCCCCAGGCTGACAGAACGCTGGGAAACGGGGAGCCCCCTGT
GCTGGGGGACAGCTGCAGTAGTGGCAGCAGCAATAGCACAGACAGCGGGATCTGCCTGCAGGAGCCCAGCCTGAG
CCCCAGCACAGGGCCACCTGGGAGCAACAGGTGGGGAGCAACAGCAGGGGCCAGGATGACAGTGGCATTGACTT
AGTTCAAAACTCTGAGGGCCGGGCTGGGGACACACAGGGTGGCTCGGCCTTGGGCCACCACAGTCCCCCGGAGCC
TGAGGTGCCTGGGGAAGAAGACCCAGCTGCTGTGGCATTCCAGGGTTACCTGAGGCAGACCAGATGTGCTGAAGA
GAAGGCAACCAAGACAGGCTGCCTGGAGGAAGAATCGCCCTTGACAGATGGCCTTGGCCCCAAATTOGGGAGATG
CCTGGTTGATGAGGCAGGCTTGCATCCACCAGCCCTGGCCAAGGGCTATTTGAAACAGGATCCTCTAGAAATGAC
TCTGGCTTCTCAGGGGCCCCAACGGGACAGTGAACAGCCCACTGAGGAATGGTCACTCCTGGCCTTGAGCAG
CTGCAGTGACCTGGGAATATCTGACTGGAGCTTTGCCCATGACCTTGCCCTCTAGGCTGTGTGGCAGCCCCAGG
TGGTCTCCTGGGCAGCTTTAACTCAGACCTGGTCACCCTGCCCTCATCTCTAGCCTGCAGTCAAGTGAGTGACT
CGGGCTGAGAGGCTGCTTTTGTATTTAGCCATGCCTGCTCCTCTGCCTGGACCAGGAGGAGGGCCCTGGGGCAGA
AGTTAGGCACGAGGCAGTCTGGGCACCTTTCTGCAAGTCCACTGGGGCTGGCCCAGCCAGGCTGCAGGGCTGGTC
AGGGTGTCTGGGGCAGGAGGAGGCCAACTCACTGAAGTGTGAGGGTATGTGGGTGGCACTGACCTGTTCTGTT
GACTGGGGCCCTGCAGACTCTGGCAGAGCTGAGAAGGGCAGGGACCTTCTCCCTCCTAGGAACTCTTCTCTGTAT
CATAAAGGATTATTTGCTCAGGGGAACCATGGGGCTTTCTGGAGTTGTGGTGAGGCCACCAGGCTGAAGTCAGCT
CAGACCCAGACCTCCCTGCTTAGGCCACTCGAGCATCAGAGCTTCCAGCAGGAGGAAGGGCTGTAGGAATGGAAG
CTTCAGGGCCTTGCTGCTGGGGTCATTTTTAGGGGAAAAGGAGGATATGATGGTCACATGGGGAACCTCCCCCTC
ATCGGGCCTCTGGGGCAGGAAGCTTGTCACTGGAAGATCTTAAGGTATATATTTTCTGGACACTCAAACACATCA
TAATGGATTCACTGAGGGGAGACAAAGGGAGCCGAGACCCTGGATGGGGCTTCCAGCTCAGAACCCATCCCTCTG
GTGGGTACCTCTGGCACCCATCTGCAAATATCTCCCTCTCTCCAACAAATGGAGTAGCATCCCCCTGGGGCACTT
GCTGAGGCCAAGCCACTCACATCCTCACTTTGCTGCCCCACCATCTTGCTGACAACTTCCAGAGAAGCCATGGTT
TTTTGTATTGGTCATAACTCAGCCCTTTGGGCGGCCCTCTGGGCTTGGGCACCAGCTCATGCCAGCCCCAGAGGGT
CAGGGTTGGAGGCCTGTGCTTGTGTTTGTGCTAATGTCCAGCTACAGACCCAGAGGATAAGCCACTGGGCACTG
GGCTGGGGTCCCTGCCTTGTGTTGTTGCTGCTAATGTCCAGCTACAGACCCAGAGGATAAGCCACTGGGCACTG
CATCTGTGAAATAAGGACTCCACCTTTAGGGGACCCTCCATGTTTGTGCTGGGTATTAGCCAAGCTGGTCTGGGAG
AATGCAGATACTGTCCGTGGACTACCAAGCTGGCTTGTCTTATGCCAGAGGCTAACAGATCCAATGGGAGTCC
ATGGTGTCTATGCCAAGACAGTATCAGACACAGCCCCAGAAGGGGGCATTATGGGCCCTGCCTCCCCATAGGCCAT
TTGGACTCTGCCTTCAAACAAAGGCAGTTCAGTCCACAGGCATGGAAGCTGTGAGGGGACAGGCCTGTGCGTGCC
ATCCAGAGTCATCTCAGCCCTGCCTTTCTCTGGAGCATTCTGAAACAGATATTCTGGCCCAGGGGAATCCAGCCA
TGACCCCCACCCCTCTGCCAAAGTACTCTTAGGTGCCAGTCTGGTAACTGAACTCCCTCTGGAGGCAGGCTTGAG
GGAGGATTCTCAGGGTTCCCTTGAAAGCTTTATTTATTTATTTTGTTCATTTATTTATTTGAGAGGCAGCATTG
CACAGTGAAAGAATTCTGGATATCTCAGGAGCCCCGAAATTCTAGCTCTGACTTTGCTGTTTCCAGTGGTATGAC
CTTGGAGAAGTCACTTATCCTCTTGGAGCCTCAGTTTCTCATCTGCAGAATAATGACTGACTTGTCTAATTTCAT
AGGGATGTGAGGTTCTGCTGAGGAAATGGGTATGAATGTGCCTTGAACACAAAGCTCTGTCAATAAGTGATACAT

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FIGURE 507B

GTTTTTTATTCCAATAAATTGTCAAGACCACA

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FIGURE 508

MLPCLVVLLAALLSLRLGSDAHGTELPSPPSVWFEEFFHHILHWTPIPNQSESTCYEVALLRYGIESWNSISNC
SQTLSYDLTAVTLDLYHSNGYRARVRAVDGSRHSNWTVTNTRFSVDEVTLTVGSVNLEIHNGFILGKIQLPRPKM
APANDTYESIFSHFREYEIAIRKVPGNFTFTHKKVKHENFSLTSGEVGEFCVQVKPSVASRSNKGMMWSKEECIS
LTRQYFTVTNVIIFFAFVLLLSGALAYCLALQLYVRRRKKLPVLLFKKPSPFIFISQRPSPETQDTIHPLDEEA
FLKVSPKLNLDLHGSTDSGFGSTKPSLQTEEPQFLLPDHPQADRTLGNGEPPVLGDSCSSGSSNSTDSGICLQ
EPSLSPSTGPTWEQQVGSNSRGQDDSGIDLVQNSEGRAGDTQGGGALGHHSPPEPEVPGEEDPAAVAFQGYLRQT
RCAEEKATKTGCLEEEESPLTDGLGPKFGRCLVDEAGLHPPALAKGYLKQDPLEMTLASSGAPTQOWNQPTTEWSL
LALSSCSDLGISDWSFAHDLAPLGCVAAPGGLLGSFNSDLVTLPLISSLQSSE

[illegible]

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FIGURE 510

MATMVPSVLWPRACWTLLVCCLLTPGVQGQEFLLRVEPQNPVLSAGGSLFVNCSTDCPSSEKIALETSLSKELVA
SGMGWAAFNLSNVTGNSRILCSVYCNGSQITGSSNITVYGLPERVELAPLPPWQPVGQNFILRCQVEGGSPRTSL
TVVLLRWEEELSRQPAVEEPAEVTATVLA SRDDHGAPFSCRTELDMQPQGLGLFVNTSAPRQLRTFVLPVTPPRL
VAPRFLEVETSWPVDCTLDGLFPASEAQVYLALGDQMLNATVMNHGDTLTATATATARADQEGAREIVCNVTLGG
ERREARENLTVFSFLGPIVNLSEPTAHEGSTVTVSCMAGARVQVTLDGVPAAAPGQPAQLQLNATESDDGRSFFC
SATLEVDGEFLHRNSSVQLRVLYGPKIDRATCPQHLKWKDKTRHVLQCQARGNPYPELRCLKEGSSREVPVGIPF
FVNVTNGTYQCQASSSRGKYTLVVVMDIEAGSSHFPVVFVAVLLTLGVVTIVLALMYVVFREHQRSYSYHVREES
TYLPLTSMQPTTEAMGEEPSRAE

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FIGURE 511

ACTTCTCGCTCGACACAGCCAGAGCTGGAGGTGGGTGCCCCGGCACGGAGGGGCCTGCGGACCAATGGCTCTGCCC
TGCACCTTAGGGCTCGGGATGCTGCTGGCCCTGCCAGGGGCCTTGGGCTCGGGTGGCAGCGCGGAGGACAGCGTG
GGCTCCAGCTCTGTACCGTTGTCCTGCTGCTGCTGCTGCTCCTACTGCTGGCCACTGGCCTAGCACTGGCCTGG
CGCCGCCTCAGCCGTGACTCAGGGGGCTACTACCACCCGGCCCGCCTAGGTGCCGCGCTGTGGGGCCGCACGCGG
CGCCTGCTCTGGGCCAGCCCCCAGGTGCTGGCTGCAGGCCCGAGCTGAGCTGGGGTCCACAGACAATGACCTT
GAGCGACAGGAGGATGAGCAGGACACAGACTATGACCACGTCGCGGATGGTGGCCTGCAGGCTGACCCCTGGGGAA
GGCGAGCAGCAATGTGGAGAGGCGTCCAGCCCAGAGCAGGTCCCCGTGCGGGCTGAGGAAGCCAGAGACAGTGAC
ACGGAGGGCGACCTGGTCCTCGGCTCCCCAGGACCAGCGAGCGCAGGGGGCAGTGCTGAGGCCCTGCTGAGTGAC
CTGCACGCCTTTGCTGGCAGCGCAGCCTGGGATGACAGCGCCAGGGCAGCTGGGGGCCAGGGCCTCCATGTCACC
GCACTGTAGAGGCCGGTCTTGGTGTCCCATCCCTGTCACAGCCGCTCACTCCCCGTGCCTCTGCTTCCCAAGATG
CCATGGCTGGACTGGACCCCCAGCCCACATGACCATGCCTCAGACTGTCACCCCTACCAGTTCCCAAGTCCATGT
GTACCCCGCTCACCACGGGAACGGCCCCCCCCAACCACAGGCATCAGGCAACCATTTGAAATAAACTCCTTCAG
CCTGTGAAAAAAAAA

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FIGURE 512

MALPCTLGLGMLLALPGALGSGGSAEDSVGSSSVTVVLLLLLLLLLLATGLALAWRRLSRDSGGYHPARLGAALW
GRTRRLLWASPPGRWLQARAELGSTDNDLERQEDEQD TDYDHVADGGLOADPGEGEQQCGEASSPEQVPVRAEEA
RDSDEGDLVLGSPGPASAGGSAEALLSDLHAFAGSAAWDDSARAAGGQGLHVTAL

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FIGURE 513

GGAGGGGGCATGGCGGATACTGTGTTGTTTGAGTTTCTTCACACGGAGATGGTGGCTGAGCTGTGGGCTCACGAC
CCCGACCCCGGCCCGGGGTGAGCGCCGGGCTCCGTGGGGAGGAAGCGGGGGCCACCAAGGGACAGAAGATGAGC
CTGTCGGTCCTGGAGGGTATGGGGTTCCGTGTGGGCCAGGCTCTAGGCGAGAGGCTGCCCCGGGAGACGCTGGCC
TTCAGGGAGGAGCTGGATGTCCTCAAGTTCTTGTGCAAAGACCTGTGGGTGGCGGTGTTCCAGAAGCAGATGGAC
AGCCTGCGCACCAATCACCAGGGGACCTACGTCCTGCAAGACAACAGCTTCCCCCTCCTCCTCCCGATGGCCTCT
GGCCTGCAGTATCTGGAGGAAGCACCCAAGTTCCCTGGCCTTCACCTGCGGCCTCCTGCGCGGCGCCCTCTATACC
CTGGGCATTGAGAGCGTGGTCACCGCCTCCGTGGCAGCCCTGCCCGTCTGTAAGTTCCAGGTGGTGATTCCGAAA
TCCTTAAGCCTGCCTCGCACCTGCTGAGCCGCACTGCTGCCCCTGGCCTCACCGGCCTCAGGAGACGGTGGGGCCG
CTGCATTTGCGGGTGGTCTTGGGAATCCCAGGCCCTAGGGGTACATTTGCTCAGGAAGTGGGTATCAAATTGAG
GTGGGGGTGTGAGAGGAGGCAAAGGGGTCCCAGCTGCGGTGAGGACTGTGGTGGGATTCCCGCCTCGGCAGCGTC
ACTGCCCAGTAGCTGCTCAATAAAGGCTGTGTGTGTGGAATCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 514

MADTVLFEFLHTEMVAELWAHDPDPGPGVSAGLRGEEAGATKGQKMSLSVLEGMGFRVGQALGERLPRETLAFRE
ELDVLKFLCKDLWVAVFQKQMDSLRTNHQGTYVLQDNSFPLLLPMASGLQYLEEAPKFLAFTCGLLRGALYTLGI
ESVVTASVAALPVCKFQVVIPKS

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FIGURE 515

CGGGCGCCCAGAGGGCAAATGAGGGGCGGCGGGGTGGCGGGTCGGGGGGAGACGCGGAATTTCCAGCGCGGGGG
CTCTGGCTTACCCTGCAACCGGGCAGTCTCTTTCTGTTTACGGAGAGAAAGGGGAAATGGAAAAGTCGGGGAGGC
GGTGGCTGGCGTCCGCTGCGCCGCCCCCTGGGCAGGCTCAGACGCCGTGAGTCAGGGGCAGAGCAGGGCGGTCTGA
GCGTGCGGGCGACGCGGGTCTCACTCGTCCGCTCCGCTCTGGACTGCGCGCCACGCTCTGGGGTCCGGCGCCCTG
CTGCTTCTGCGCTGCGCGCCGCGGATCCAGTGCGCCGGCGTGCTCGGCTCCCACAGGCCTGCAGCCAGC
CACCGAACCTTCGGGGGGCGCGGCTGGAGCGCTCGGCCGGCGTGGGAGCGCCAAGGCCGAGATGCAATC
TTACCGCGAAGAAGCCAGGGGAATAGGTAGCCACATCTTGTTTGCAGATAAGAAAGGAAGCTAACGCAGTAT
TGCAAAGCCAGGAGTCTGACTCAGTACTTTTCTCACTCATGCATACAAAGCAGCTAAAAATGACACAGCTTATT
CATGCCCCCTGACACTGCACTGAGCACTTTATGAGCTTGAAGTCTGTTAATCCTCAGACCACCTCATGAGAC
CAGAAAGAGCAACAGTAATGGAGTACATGAGCACTGGAAGTGACAATAAAGAAGAGATTGATTTATTAATT
ATTTAAATGTGTCTGATGTAATAGACATTATGGAAAATCTTTATGCAAGTGAAGAGCCAGCAGTTTATGAA
AGTCTAATGACCATGTGTCAAGACAGTAATCAAAACGATGAGCGTTCTAAGTCTCTGCTGCTTAGTGCCAA
AGTACCATGGTTGTTCATCAGTCAGATATGGAAGTGTGGAGGATTTGCTTGCTTTTGCAAACCATATATCCAA
TGCAAAGCATTTTTATGGACAACGACCACAGGAATCTGGAATTTTATTAAACATGGTCATCACTCCCCAAAT
GGACGTTACCAATAGATTCCGATGTTCTCTGATCCCCCTGGAAGCTGACTTACAGGAATATTGGTTCTGATTTT
ATTCTCGGGGCGCCTTTGGAAAGGTATACTTGGCACAAGATATAAAGACGAAGAAAAGAATGGCGTGAAACTG
ATCCAGTAGATCAATTTAAGCCATCTGATGTGGAATCCAGGCTTGCTTCCGGCACGAGAACATCGCAGAGCTG
TATGGCGCAGTCTGTGGGGTGAACTGTCCATCTCTTTATGGAAGCAGGCGAGGGAGGGTCTGTTCTGGAGAAA
CTGGAGAGCTGTGGACCAATGAGAGAATTTGAAATTATTTGGGTGACAAAGCATGTTCTCAAGGGACTTGATTTT
CTACACTCAAAGAAAGTGATCCATCATGATATTAAACCTAGCAACATTGTTTTCATGTCCACAAAAGCTGTTTTG
GTGGATTTTGGCCTAAGTGTTCAAATGACCGAAGATGTCTATTTTCTAAGGACCTCCGAGGAACAGAGATTTAC
ATGAGCCCAGAGGTATCCTGTGCAGGGGCCATTCAACCAAGCAGACATCTACAGCCTGGGGGCCACGCTCATC
CACATGCAGACGGGCACCCACCCCTGGGTGAAGCGCTACCCTCGCTCAGCCTATCCCTCCTACCTGTACATAATC
CACAAGCAAGCACCTCCACTGGAAGACATTGCAGATGACTGCAGTCCAGGGATGAGAGAGCTGATAGAAGCTTCC
CTGGAGAGAAAACCCCAATCACCGCCCAAGAGCCGAGACCTACTAAAACATGAGGCCCTGAACCCGCCAGAGAG
GATCAGCCACGCTGTGAGAGTCTGGACTCTGCCCTCTTGGAGCGCAAGAGGCTGCTGAGTAGGAAGGAGCTGGAA
CTTCTGAGAACATTGCTGATTCTTCGTGCACAGGAAGCACCGAGGAATCTGAGATGCTCAAGAGGCAACGCTCT
CTCTACATCGACCTCGGCGCTCTGGCTGGCTACTTCAATCTTGTTTCGGGGACCACCAACGCTTGAATATGGCTGA

AGGATGCCATGTTTGCTCTAAATTAAGACAGCATTGATCTCCTGGAGGCTGGTTCTGCTGCCTCTACACAGGGGC
CCTGTACAGTGAATGGTGCCATTTTCGAAGGAGCAGTGTGACCTCCTGTGACCCATGAATGTGCCTCCAAGCGGC
CCTGTGTGTTTGACATGTGAAGCTATTTGATATGCACCAGGTCTCAAGGTTCTCATTCTCAGGTGACGTGATTC
TAAGGCAGGAATTTGAGAGTTCACAGAAGGATCGTGTCTGCTGACTGTTTCATTCACTGTGCACTTTGCTCAAAA
TTTTAAAAATACCAATCACAAGGATAATAGAGTAGCCTAAAATTACTATTCTTGTTCTTATTTAAGTATGGAAT
ATTCATTTTACTCAGAATAGCTGTTTTGTGTATATTGGTGTATATTATATAACTCTTTGAGCCTTTATTGGTAAA
TTCTGGTATACATTGAATTCATTATAATTTGGGTGACTAGAACAACTTGAAGATTGTAGCAATAAGCTGGACTAG
TGTCCTAAAAATGGCTAACTGATGAATTAGAAGCCATCTGACAGCAGGCCACTAGTGACAGTTTCTTTTGTGTTT
CTATGGAAACATTTTATACTGTACATGCTATGCTGAAGACATTCAAAACGTGATGTTTTGAATGTGGATAAACT
GTGTAAACCACATAATTTTGTACATCCCAAAGGATGAGAATGTGACCTTTAAGAAAAATGAAAACTTTTGTAAA
TTATTGATGATTTTGAATTCATTATGACTAAATTTTCTTTTAAAGCATTGTATATTAAATAGCATACTGTGTAT
GTTTTATATCAAATGCCCTTCATGAATCTTTCATACATATATATTTGTAACATTGTAAAGTATGTGAGTAGTCT
TATGTAAAGTATGTTTTTACATTATGCAAATAAAACCAATACTTTTGTCCAATGTGGTTGGTCAAATCACTGA
ATAAATTCAGTATTTTGCTT

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FIGURE 516

MEYMSTGSDNKEEIDLLIKHLNVSDVIDIMENLYASEEPAVYEPSLMTMCQDSNQNDERSKSLLLSGQEV PWLSS
VRYGTVEDLLAFANHISNTAKHFGQRPQESGILLNMVITPQNGRYQIDSDVLLIPWKLT YRNIGSDFIPRGA FG
KVYLAQDIKTKKRMACKLIPVDQFKPSDVEIQACFRHENIAELYGAVLWGETVHLFMEAGEGGSVLEKLESCGPM
REFEIIWVTKHVLKGLDFLHKKVIHHDIKPSNIVFMSTKAVLVDFGLSVQMTEDVYFPKDLRGTEIYMSPEVIL
CRGHSTKADIYSLGATLIHMQTGTPPWVKRYPR SAYPSYLYIIHKQAPPLIEDIADDCSPGMRELIEASLERNPNH
RPRAADLLKHEALNPPREDQPRCTSLDSALLERKRLLSRKELELPENIADSSCTGSTEESEMLKRQRS LYIDLGA
LAGYFNLVRGPPTLEYG

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FIGURE 517

AAACTTCCCGCACGCGTTACAGGAGCCAGGTCGGTATAAGCGCCAGCGGCCTCGCCGCCCGTCAAGCTGTCCACA
TCCCTGGCCTCAGCCCGCCACATCACCTGACCTGCTTACGCCCAGATTTTCTTCAATCACATCTGAATAAATCA
CTTGAAGAAAGCTTATAGCTTCATTGCACCATGTGTGGCATTGCGCGCTGTTTGGCAGTGATGATTGCCTTTCT
GTTCAAGTGTCTGAGTGCTATGAAGATTGCACACAGAGGTCCAGATGCATTCCGTTTTGAGAATGTCAATGGATAC
ACCAACTGCTGCTTTGGATTTACCGGTTGGCGGTAGTTGACCCGCTGTTTGGAAATGCAGCCAATTCGAGTGAAG
AAATATCCGTATTTGTGGCTCTGTTACAATGGTGAAATCTACAACCATAAGAAGATGCAACAGCATTTTGAATTT
GAATACCAGACCAAAGTGGATGGTGAGATAATCCTTCATCTTTATGACAAAGGAGGAATTGAGCAAACAATTTGT
ATGTTGGATGGTGTGTTTGCATTTGTTTTACTGGATACTGCCAATAAGAAAGTGTTCTCGGGTAGAGATACATAT
GGAGTCAGACCTTTGTTTTAAAGCAATGACAGAAGATGGATTTTGGCTGTATGTTTCAGAAGCTAAAGGTCTTGTT
ACATTGAAGCACTCCGCGACTCCCTTTTTAAAGTGGAGCCTTTCTTCTCGGACACTATGAAGTTTGGATTTA
AAGCCAAATGGCAAAGTTGCATCCGTGGAAATGGTTAAATATCATCACTGTCTGGGATGAACCCCTGCACGCCCTC
TATGACAATGTGGAGAACTCTTTCCAGGTTTTGAGATAGAACTGTGAAGAACAACCTCAGGATCCTTTTTAAT
AATGCTGTAAAGAAACGTTTGATGACAGACAGAAGGATTGGCTGCCTTTTATCAGGGGGCTTGGACTCCAGCTTG
GTTGCTGCCACTCTGTTGAAGCAGCTGAAAGAAGCCCAAGTACAGTATCCTCTCCAGACATTTGCAATTGGCATG
GAAGACAGCCCCGATTTACTGGCTGCTAGAAAGGTGGCAGATCATATTGGAAGTGAACATTATGAAGTCCTTTTT
AACTCTGAGGAAGGCATTACGGCTCTGGATGAAGTCATATTTTCTTGGAAACTTATGACATTACAACAGTTTCGT
GCTTCAGTAGGTATGTATTTAATTTCCAAGTATATTTCGGAAGAACACAGATAGCGTGGTGATCTTCTCTGGAGAA
GGATCAGATGAACCTACGCAGGGTTACATATATTTTACAAGGCTCCTTCTCCTGAAAAAGCCGAGGAGGAGAGT
GAGAGGCTTCTGAGGGAACCTCTATTTGTTTGATGTTCTCCGCGCAGATCGAACTACTGCTGCCCATGGTCTTGAA
CTGAGAGTCCCATTCTAGATCATCGATTTTCTTCTTATTACTTGTCTCTGCCACCAGAAATGAGAATTCCAAAG
AATGGGATAGAAAAACATCTCCTGAGAGAGACGTTTGAGGATTCCAATCTGATACCCAAAGAGATTCTCTGGCGA
CCAAAAGAAGCCTTCAGTGATGGAATAACTTCAGTTAAGAATTCCTGGTTTAAGATTTTACAGGAATACGTTGAA
CATCAGGTTGATGATGCAATGATGGCAAATGCAGCCAGAAATTTCCCTTCAATACTCCTAAAACCAAAGAAGGA
TATTACTACCGTCAAGTCTTTGAACGCCATTACCCAGGCCGGGCTGACTGGCTGAGCCATTACTGGATGCCCAAG
TGGATCAATGCCACTGACCCTTCTGCCCGCACGCTGACCCACTACAAGTCAGCTGTCAAAGCTTAGGTGGTCTTT
ATGCTGTAATGTGAAAGCAAATATTTCTTCGTGTTGGATGGGGACTGTGGGTAGATAGGGGAACAATGAGAGTCA
ACTCAGGCTAACTTGGGTGTGAAAAAATAAAAGTCCTAAATCT

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FIGURE 518

MCGIWALFGSDDCLSVQCLSAMKIAHRGPDAFRFENVNGYTNC CFGHRLAVVDPLFGMQPIRVKKYPYLWLCYN
GEIYNHKKMQQHFEFEYQTKVDGEIILHLYDKGGIEQTICMLDGVFAFVLLDTANKKVFLGRD TYGVRPLFKAMT
EDGFLAVCSEAKGLVTLKHSATPFLKVEPFLPGHYEVL DLKPNGKVASVEMVKYHHC RDEPLHALYDNVEKLFPG
FEIETVKNNLRILFNNAVKKRLMTDRRIGCLLSGGLDSSLVAATLLKQLKEAQVQYPLQTFAIGMEDSPDLLAAR
KVADHIGSEHYEVLFNSEEGIQALDEVIFSLETYDITTVRASVGMYLISKYIRKNTDSVVIFSGEGSDELTQGYI
YFHKAPSPEKAEESERLLRELYLFDVLRADRTTAAHGLELRVPFLDHRFSSYYLSLPPEMRIPKNGIEKHLRE
TFEDSNLIPKEILWRPKEAFSDGITSVKNSWFKILQEYVEHQVDDAMMANAAQKFPFNTPKTKEGYYYRQVFERH
YPGRADWLSHYWMPKWINATDPSARTLTHYKSAVKA

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FIGURE 519

GGCACGAGGGCCCGTGCCGCCCCAGCCGCTGCCGCCTGCACCGGACCCGGAGCCGCCATGCCCAAGTGTCCTCAAG
TGCAACAAGGAGGTGTACTTCGCCGAGAGGGTGACCTCTCTGGGCAAGGACTGGCATCGGCCCTGCCTGAAGTGC
GAGAAATGTGGGAAGACGCTGACCTCTGGGGGCCACGCTGAGCACGAAGGCAAACCTACTGCAACCACCCCTGC
TACGCAGCCATGTTTGGGCCTAAAGGCTTTGGGCGGGGCGGAGCCGAGAGCCACACTTTCAAGTAAACCAGGTGG
TGGAGACCCCATCCTTGGCTGCTTGCAGGGCCACTGTCCAGGCAAATGCCAGGCCTTGTCCCCAGATGCCAGGG
CTCCCTTGTTGCCCTAATGCTCTCAGTAAACCTGAACACTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 520

MPKCPKCNKEVYFAERVTSLGKDWRPCLKCEKCGKTLTSGGHAHEGKPYCNHPCYAAMFGPKGFGRGGAESHT
FK

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FIGURE 521

AAGGACACGGGCAGCAGACAGTGGTCAGTCCTTTCTTGGCTCTGCTGACACTCGAGCCACATTCCGTCACCTGC
TCAGAATCATGCAGGTCTCCACTGCTGCCCTTGCTGTCTCCTCTGCACCATGGCTCTCTGCAACCAGTTCTCTG
CATCACTTGCTGCTGACACGCCGACCGCCTGCTGCTTCAGCTACACCTCCCGGCAGATTCCACAGAATTCATAG
CTGACTACTTTGAGACGAGCAGCCAGTGCTCCAAGCCGGTGTCATCTTCCTAACCAAGCGAAGCCGGCAGGTCT
CTGACCCCACTGAGGAGTGGGTCCAGAAATATGTCAGCGACCTAGAGCTGAGTGCCCTGAGGGGTCCAGAAGC
AAGGCCAGCGACCTCGGTGGGCCAGTGGGGAGGAGCAGGAGCCTGAGCCTTGGGAAACATGCGTGTGACCT
ACAGCTACCTCTTCTATGGACTGGTTGTTGCCAAACAGCCACACTGTGGGACTCTTCTTAACTTAAATTTTAA
TTIATTTATACTATTTAGTTTTTTGTAATTTATTTTCGATTTACAGTGTGTTTGTGATTGTTTGCTCTGAGAGTT
CTGTGCCCTCCCCCTTCCCTCACACCGCGTCTGGTGACAACCGAGTGGCTGTGATCAGCCTGTGTAGGCAGT
GCGACCAAAGCCACCAGACTGACAAATGTGTATCGGATGCTTTTGTTTCAAGGCTGTGATCGGCCTGGGGAAA
TAAAGCACGCTCTTTTAAAGGT

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FIGURE 522

MQVSTAALAVLLCTMALCNQFSASLAADTPTACCFSYTSRQIPQNFIADYFETSSQCSKPGVIFLTKRSRQVCAD
PSEEWVQKYVSDLELSA

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FIGURE 523

GCTACACTAGAGCAGAGTACGAGTCTGAGGCGGAGGGAGTAATGCAGGACAAGCGTTTAGAAAGTTTCTTCCAC
TCTTTGACCGAGTATTGGTTGAAAGGAGTGCTGCTGAACTGTAACCAAAGGAGGCATTATGCTTCCAGAAAAAT
CTCAAGGAAAAGTATTGCAAGCAACAGTAGTCGCTGTTGGATCGGGTTCTAAAGGAAAGGGTGGAGAGATTCAAC
CAGTTAGCGTGAAAGTTGGAGATAAAGTTCTTCTCCAGAATATGGAGGCACCAAAGTAGTTCTAGATGACAAGG
ATTATTTCTTATTTAGAGATGGTGACATTCTTGAAAGTACGTAGACTGAAATAAGTCACTATTGAAATGGCATC
AACATGATGCTGCCCATTCCACTGAAGTTCTGAAATCTTTCGTCATGTAAATAATTTCCATATTTCTCTTTTATA
ATAAACTAATGATAACTAATGACATCCAGTGTCTCCAAAATTGTTTCCTTGACTGATATAAACACTTCCAAATA
AAAATATGTAAAT

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FIGURE 524

MAGQAFRKFLPLFDRVLVERSAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGKGGEIQVSVKVGDKVLLPE
YGGTKVVLDDKDYFLFRDGDILGKYVD

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FIGURE 525A

CCTGCGTGTCCCTCTGCGCTCCGACTGGTGCAGCTTCTCCCTGCGCTAGCGAGGCAGGGTTTTGGCCTCGCCTCT
CGCGAGATCGCCTCCTGTTGCTGCCGCCGCCGCTCCTGGCCACTGACTGGCGGCGCCTGCGCAGCCGCCATGTTT
GGTTGCTATGCTGCGGCCTAGGAGAGGGGGTGTGCTTGAGGGAGGAGGAAGAGATAGAGGAGGAGGAGGGGGAGG
AAGAGGAGGTGGAGAAGGAGGGGGGTGACTGAGCTCCTCTTGCACTCTCACACACAAACGCTGCCAGGATTACC
CGCCAGCTCACGCCGCGCAGTGCGCTTTTCCGCTCCTCGCGCCCCACCACCAACATTGTTCTCTCAGGACTCCTG
GGTCCCAGGGGTCGGAATTGGGCCTGAGCGGGAGAGGAAAGAGACTTGCTTTGGCCGCGGGGTCGGAGGATTGG
GGCCAGGCCCCCTCCCCACGCACTTTTGGGGGTGTGGATTATCTCATCCCTGCAGGGAGGTAGGAGAGGTGCGC
GGCTGCCCCGCTCCTGCCACCTCCCCAGCGGCGCGGGCCCCGCGGCTGCCAGCAGCATGAGGTGGTGTGCTGGCGG
CTCCGGGTGCTGGCGCGACCGCTGCGGCGGGGGCTGCTCGGGGGGCGCTGAGGTAGCCCCCGGAGCGGCACGGA
GGACGCGCTTCTCCTCTGCGCGCCGGGGCCTCGAGGCTTTTTTCTCCAGCCGAGAGGACGCGGCTGTGATATAC
GAAGACTTTGTGTGGACAGTAATGACCTCACGTTTCCGATTGCTGCTGGCAGAACCTACAATGTACGAGCATCA
GAGTTGGCCCGAGACAGACAGCATACTGAAGTGGTTTGCAACATCCTTCTTCTGGATAACACTGTACAAGCTTTC
AAAGTCAATAAACATGATCAGGGGCAAGTCTTGTGGATGTGCTCTTCAAGCATCTAGATTTGACTGAGCAGGAC
TATTTTGGTTTACAGTTGGCTGATGATTCCACAGATAACCCAAGGTGGCTGGATCCAAACAAACCAATAAGGAAG
CAGCTAAAGAGAGGATCTCCTTACAGTTTGAACCTTAGAGTCAAATTTTTTGTAAAGTGACCCCAACAAGTTACAA
GAAGAATATACAAGGTACCAGTATTTTTTGCAAATTAACAAGACATTCTTACTGGAAGATTACCCTGTCTTCT
AATACTGCTGCCCTTTTAGCTTCATTGCTGTTTCACTGTAACCTGGAGACTACGATCAGTCAGAGAACTTGTC
GGCTACCTCTCAGATTATTCTTTCATTCTTAATCAACCTCAAGATTTTGAAAAAGAAATTGCAAAATTACATCAG
CAACACATAGGCTTATCTCCTGCAGAAGCAGAATTTAATTACCTAAACACAGCACGTACCTTAGAACTCTATGGA
GTTGAATTCCACTATGCAAGGGATCAGAGTAACAATGAAATTATGATTGGAGTGATGTGAGGAGGAATTCTGATT
TATAAGAACAGGGTACGAATGAATACCTTTCCATGGTTGAAGATTGTAAAAATTTCTTTTAAGTGCAAACAGTTT
TTTATTCAACTTAGAAAAGAAATTGCATGAATCTAGAGAAACATTATTGGGATTTAATATGGTGAATTACAGAGCA
TGTA AAAAATTTGTGGAAGCATGTGTAGAACATCACACATTCTTCCGTTTGGACAGACCACTTCCACCTCAAAAG
AATTTTTTTGCACATTATTTTACATTAGGTTCAAATTTCCGTACTGTGGGAGAACTGAAGTCCAATCAGTTTCA
TATGGCAAAGAAAAGGCAAATAAAGACAGGGTATTTGCAAGATCCCCAAGTAAGCCCTTGGCACGGAAATTAATG
GATTGGGAAGTAGTAAGCAGAAATTCAATATCTGATGACAGGTTAGAAACACAAAGTCTTCCATCAGGATCTCCA
CCGGAACTCCTAATCATCGAAATTCTACATTACGCAGGAAGGAACCCGGTTACGACCATCTTTCAGTTGGTCAT
TTGGTAGACCATATGGTTTCATACTTCCCCAAGCGAAGTGTGTTGTAAATCAGAGATCTCCGTCATCAACACAAGCT
AATAGCATTGTTCTGGAATCATCACCATCACAAGAGACCCCTGGAGATGGGAAGCCTCCAGCTTTACCACCCAAA
CAGTCAAAGAAAAACAGTTGGAACCAATTCATTATTACATTGCAACAAGATCTAGAAAGTCATATTAATGAA
ACATTTGATATTCCATCTTCTCCTGAAAAACCCACTCCTAATGGTGGTATTCCACATGATAATCTTGTCTTAATC
AGAATGAAACCTGATGAAAATGGGAGGTTTGGATTCAATGTAAAGGGAGGATATGATCAGAAGATGCCTGTGATT
GTGTCTCGAGTAGCACCAGGAACACCTGCTGACCTCTGTGTCCCTAGACTGAATGAAGGGGACCAAGTTGTACTG
ATCAATGGTTCGGGACATTGCAGAACACACTCATGATCAGGTTGTGCTGTTTATTAAAGCTAGTTGTGAGAGACAT
TCTGGGGAACCTCATGCTTCTAGTTTCGACCTAATGCTGTATATGATGTAGTGGAGAAAAGCTAGAAAATGAGCCA
GATTTCCAGTATATTCCCTGAGAAAGCCCCACTAGATAGTGTGCATCAGGATGACCATTCCCTGCGGGAGTCAATG
ATCCAGCTAGCTGAGGGGCTTATCACTGGAACAGTCTGACACAGTTTGATCAACTGTATCGGAAAAACCTGGA
ATGACAATGTCCTGTGCCAAATTACCTCAGAATATTTCCAAAAATAGATACAGAGATATTTGCGCTTATGATGCC
ACACGGGTCATTTTAAAGGTAATGAAGACTACATCAATGCGAACTATATAAATATGGAAATTCCTTCTTCCAGC
ATTATAAATCAGTACATTGCTTGTCAAGGGCCATTACCACACACTTGTACAGATTTTTGGCAGATGACTTGGGAA
CAAGGCTCCTCTATGGTTGTAATGTTGACCACACAAGTTGAACGTGGCAGAGTTAAATGTCACCAATATTGGCCA
GAACCCACAGGCAGTTTATCTTATGGATGCTACCAAGTTACCTGCCACTCTGAAGAAGGAAACACTGCCTATATC
TTCAGGAAGATGACCCTATTTAACCAAGAGAAAAATGAAAGTCGTCCACTCACTCAGATCCAGTACATAGCCTGG
CCTGACCATGGAGTCCCTGATGATTGAGTGACTTCTAGATTTTGTGTTGTCATGTACGAAACAAGAGGGCTGGC
AAGGAAGAACCCGTTGTTGTCCATTGCAGTGCTGGAATCGGAAGAACTGGGGTTCTTATTACTATGGAACAGCC
ATGTGTCTCATTGAATGCAATCAGCCAGTTTATCCACTAGATATTGTAAGAACAAATGAGAGATCAGCGAGCCATG
ATGATCCAAACACCTAGTCAATACAGATTTGTATGTGAAGCTATTTTGAAAGTTTATGAAGAAGGCTTTGTTAAA
CCCTTAACAACATCAACAAATAAATAAGAAAGCAAAAAGATCTGGGATATGTGTTGGA AAACTGCTTTCCCTTAT

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FIGURE 525B

GTTCACTGTGCCATAATGCTGCTCGCAGGAAATGGCATT TTTACAAAAAAAAAATGAAGAACTCAAAAAA CTTTG
AAAAC TTCAGCACTGTTGCACTTTATGTTTTAAAAAATGTCAC TCTTCAAAATCTATAACTCATGTATTGAAG
ACIGTTTCATGCTTTGCTCCGAACAAATAGTAAATAACTGAGTATGTT CAGGGTAATTTATGAAATTTTG TGGTG
GTGCCATGCAATCCCCTTTTGGTAGAATTGCCACAAACAAGGCTCAA AATTCTCATCATCTCTGTTATACACCTG
CATGAAAGCAAAAAGAAGTAAACATCAGGAGTCAGCTCTGAAAAA AAAAAAAAAAAAAAAAAA

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FIGURE 526

MTSRFRLPAGRTYNVRASELARDRQHTEVVCNILLDDNTVQAFKVNKHDQGQVLLDVVFKHLDLTEQDYFGLQLA
DDSTDNPRWLDPNKP IRKQLKRGSPYSLNFRVKFFVSDPNKLQEEYTRYQYFLQIKQDILTGRLP CPSNTAALLA
SFAVQSELGDYDQSENLSGYLSYDFIPNQPD FEKEIAKLHQHIGLSPA EAEFNYLNTARTLELYGVEFHYAR
DQSNNEIMIGVMGGILIYKNRVRMNTFPWLKIVKISFKCKQFFIQLRKELHESRETL LGFNMVNYRACKNLWKA
CVEHHTFFRLDRPLPPQKNFFAHYFTLGSKFRYCGRTEVQSVQYGKEKANKDRVFARSPSKPLARKLMDWEVVS
NSISDDRLETQSLPSRSPPGTPNHRNSTFTQEGTRLRPSSVGHLDHVMVHTSPSEVFNQSRSPSSTQANSIVLES
SPSQETPGDGKPPALPPKQSKKNSWNQIHYSHSQDLESHINETFDIPSSPEKPTPNGGIPHDLNLVLRMKPDEN
GRFGFNVKGGYDQKMPVIVSRVAPGTPADLCVPRLNEGDQVVLINGRDIAEHTHDQVVLFIKAS CERHSGELMLL
VRPNAVYDVVEEKLENEPDFQYIPEKAPLDSVHQDDHSLRESMIQLAEG LITGTVLTQFDQLYRKKPGMTMSCAK
LPQNISKNRYSRDISPYDATRVILKGNEDYINANYINMEIPSSSIINQYIACQG PLPHTCTDFWQMTWEQGSSMVV
MLTTQVERGRVKCHQYWPEPTGSSSYGCVTCHSEEGNTAYIFRKM TLFNQEKNESRPLTQIQYIAWPDHGVPD
DSSDFLDFVCHVRNKRAGKEEPVVVHCSAGIGRTGVLITMETAMCLIECNQPVYPLDIVRTMRDQRAMMIQTPSQ
YRFVCEAILKVYEEGFVKPLTTSTNK

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FIGURE 527

TTCGGCACTTGGGAGAAGATGTTTGAAAAAACTGACTCTGCTAATGAGCCTGGACTCAGAGCTCAAGTCTGAACT
CTACCTCCAGACAGAATGAAGTTCATCTCGACATCTCTGCTTCTCATGCTGCTGGTCAGCAGCCTCTCTCCAGTC
CAAGGTGTTCTGGAGGTCTATTACACAAGCTTGAGGTGTAGATGTGTCCAAGAGAGCTCAGTCTTTATCCCTAGA
CGCTTCATTGATCGAATTCAAATCTTGCCCCGTGGGAATGGTTGTCCAAGAAAAGAAATCATAGTCTGGAAGAAG
AACAAGTCAATTGTGTGTGTGGACCCTCAAGCTGAATGGATACAAAGAATGATGGAAGTATTGAGAAAAAGAAGT
TCTTCAACTCTACCAGTTCAGTGTAAAGAGAAAGATTCCCTGATGCTGATATTTCCACTAAGAACACCTGCAT
TCTTCCCTTATCCCTGCTCTGGATTTTAGTTTTGTGCTTAGTTAAATCTTTCCAGGGAGAAAGAACTTCCCAT
ACAAATAAGGCATGAGGACTATGTGAAAAATAACCTTGCAGGAGCTGATGGGGCAAACCTCAAGCTTCTTCACTCA
CAGCACCTTATATACACTTGGAGTTTGCATTCTTATTCATCAGGGAGGAAAGTTTCTTTGAAAATAGTTATTCAG
TTATAAGTAATACAGGATTATTTTGATTATATACTTGTTGTTTAAATGTTTAAATTTCTTAGAAAACAATGGAAT
GAGAATTTAAGCCTCAAATTTGAACATGTGGCTTGAATTAAGAAGAAAATTATGGCATATATTTAAAGCAGGCTT
CTATGAAAGACTCAAAAAGCTGCCTGGGAGGCAGATGGAACCTGAGCCTGTCAAGAGGCAAAGGAATCCATGTAG
TAGATATCCTCTGCTTAAAACTCACTACGGAGGAGAATTAAGTCCTACTTTTAAAGAATTTCTTTATAAAATTT
ACTGTCTAAGATTAATAGCATTTCGAAGATCCCCAGACTTCATAGAATACTCAGGGAAAGCATTTAAAGGGTGATG
TACACATGTATCCTTTACACATTTGCCTTGACAACTTCTTTCCTCACATCTTTTCACTGACTTTTTTTGTG
GGGGCGGGGCCGGGGGACTCTGGTATCTAATTCTTTAATGATTCCCTATAAATCTAATGACATTCAATAAAGTTG
AGCAAACATTTTACTT

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FIGURE 528

MKFISTSLLLMLLVSSLSPVQGVLEVYYTSLRCRCVQESSVFIPRRFIDRIQILPRGNGCPRKEIIVWKKNKSIV
CVDPQAEWIQRMMEVLRKRSSSTLPVPVFKRKIP

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FIGURE 529

TAACTGAGCGAGGAGCAATTGATTAATAGCTCGGCGAGGGGACTCACTGACTGTTATAATAACACTACACCAGCA
ACTCCTGGCTTCCCAGCAGCCGGAACACAGACAGGAGAGAGTCAGTGGCAAATAGACATTTTTCTTATTTCTTAA
AAAACAGCAACTTGTGTTGCTACTTTTATTTCTGTTGATTTTTTTTTCTTGGTGTGTGTGGTGGTTGTTTTTAAGT
GTGGAGGGGCAAAAGGAGATACCATCCCAGGCTCAGTCCAACCCCTCTCCAAAACGGCTTTTCTGACACTCCAGGT
AGCGAGGGAGTTGGGTCTCCAGGTTGTGCGAGGAGCAAATGATGACCGCCAAGGCCGTAGACAAAATCCCAGTAA
CTCTCAGTGGTTTTGTGACCCAGCTGTCTGACAACATCTACCCGGTGGAGGACCTCGCCGCCACGTCCGGTGACCA
TCTTTCCCAATGCCGAAC TGGGAGGCCCTTTGACCAGATGAACGGAGTGGCCGGAGATGGCATGATCAACATTG
ACATGACTGGAGAGAAGAGGTCGTTGGATCTCCCATATCCCAGCAGCTTTGCTCCCGTCTCTGCACCTAGAAACC
AGACCTTCACTTACATGGGCAAGTTCTCCATTGACCCTCAGTACCCTGGTGCCAGCTGCTACCCAGAAGGCATAA
TCAATATTGTGAGTGCAGGCATCTTGCAAGGGGTCACTTCCCCAGCTTCAACCACAGCCTCATCCAGCGTCACCT
CTGCCTCCCCCAACCCACTGGCCACAGGACCCCTGGGTGTGTGCACCATGTCCAGACCCAGCCTGACCTGGACC
ACCTGTACTCTCCGCCACCGCCTCCTCCTCCTTATTCTGGCTGTGCAGGAGACCTCTACCAGGACCCCTTCTGCGT
TCCTGTGACGAGCCACCACCTCCACCTCTTCCCTCTCTGGCCTACCCACCACCTCCTTCCATCCATCCCCAAGC
CAGCCACGGACCCAGGTCTCTTCCCAATGATCCCAGACTATCCTGGATTCTTTCCATCTCAGTGCCAGAGAGACC
TACATGGTACAGCTGGCCCAGACCGTAAGCCCTTTCCCTGCCCCTGGACACCCCTGCGGGTGCCCCCTCCACTCA
CTCCACTCTCTACAATCCGTAACCTTTACCCTGGGGGGCCCCAGTGCTGGGGTGACCGGACCAGGGGGCCAGTGAGG
GCAGCGAGGGACCCCGGCTGCCTGGTAGCAGCTCAGCAGCAGCAGCAGCCGCCGCCGCCGCCGCTATAACCCAC
ACCACCTGCCACTGCGGGCCATTCTGAGGCCTCGCAAGTACCCCAACAGACCCAGCAAGACGCCGGTGACAGAGA
GGCCCTACCCGTGCCAGCAGAAGGCTGCGACCGCGGTTCTCCCGCTCTGACGAGCTGACACGGCACATCCGAA
TCCCACTGGGCATAAGCCCTTCCAGTGTGCGATCTGCATGCGCAACTTCAGCCGCAGTGACCACCTCACCACCC
ATATCCGCACCCACACCGGTGAGAAGCCCTTCGCTGTGACTACTGTGGCCGAAAGTTTGCCCGGAGTGATGAGA
GGAAGCGCCACACCAAGATCCACCTGAGACAGAAAGAGCGGAAAAGCAGTGCCCCCTCTGCATCGGTGCCAGCCC
CCTCTACAGCCTCCTGCTCTGGGGGCGTGACGCTGGGGGTACCCTGTGACGAGTAACAGCAGCAGTCTTGCGG
GAGGGCCGCTCGCCCTTGTCTCTCGGACCCGGACACCTTGAGATGAGACTCAGGCTGATACACAGCTCCCA
AAGGTCCCGGAGGCCCTTTGTCCACTGGAGCTGCACAACAAACTACCACCCTTTCCTGTCCCTCTCTCCCTTT
GTTGGGCAAAGGGCTTTGGTGGAGCTAGCACTGCCCCCTTTCCACCTAGAAGCAGGTTCTTCCATAAACTTAGCC
CATTCTAGTCTCTCTTAGGTGAGTTGACTATCAACCCAAAGGCAAAGGGGAGGCTCAGAAGGAGGTGGTGTGGGGA
TCCCCTGGCCAAGAGGGCTGAGGTCTGACCCTGCTTTAAAGGGTTGTTTGACTAGGTTTGTCTACCCACTTCCC
CTTATTTTGACCCATCACAGGTTTTTTGACCCTGGATGTCAGAGTTGATCTAAGACGTTTTCTACAATAGGTTGGG
AGATGCTGATCCCTTCAAGTGGGGACAGCAAAAAGACAAGCAAAACTGATGTGCACTTTATGGCTTGGGACTGAT
TTGGGGGACATTGTACAGTGAGTGAAGTATAGCCTTTATGCCACACTCTGTGGCCCTAAAATGGTGAATCAGAGC
ATATCTAGTTGTCTCAACCCCTTGAAGCAATATGTATTATATACTCAGAGAACAGAAGTGCAATGTGATGGGAGGA
ACGTAGCAATATCTGCTCCTTTTCGAGTTGTTTGAGAAATGTAGGCTATTTTTTTCAGTGTATATCCACTCAGATT
TTGTGTATTTTTGATGTACCCACACTGTTCTCTAAATCTGAATCTTTGGGAAAAAATGTAAAGCATTATGATC
TCAGAGGTTAACTTATTTAAGGGGGATGTACATATTCTCTGAACTAGGATGCATGCAATTGTGTTGGAAGTGTG
CTTGGTCGCCTTGTGTGATGTAGACAAATGTTACAAGGCTGCATGTAAATGGGTTGCCCTATTATGGAGAAAAAA
ATCACTCCCTGAGTTTAGTATGGCTGTATATTTATGCCTATTAATATTTTGAATTTTTTTTAGAAAGTATATTTT
TGTATGCTTTGTTTTGTGACTTAAAAGTGTTACCTTTGTAGTCAAATTTTTCAGATAAGAATGTACATAATGTTACC
GGAGCTGATTTGTTTGGTCATTAGCTCTTAATAGTTGTGAAAAATAAATCTATTCTAACGCAAAACCACTAACT
GAAGTTGAGATATAATGGATGGTTTGTGACTATAGTGTAATAAATACTTTTCAACAAT

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FIGURE 530

MMTAKAVDKIPVTLSGFVHQLSDNIYPVEDLAATSVTIFPNAELGGPFDMNGVAGDGMINIDMTGEKRSIDLPLY
PSSFAPVSAPRNQFTFTYMGKFSIDPQYPGASCYPEGIINIVSAGILQGVTSASTTASSSVTSASPNPLATGPLG
VCTMSQTQPDLDHLYSPPPPPPPYSGCAGDLYQDPSAFLSAATTSTSSSLAYPPPPSYSPKPADDPGLFPMIPD
YPGFFPSQCQRDLHGTAGPDRKPFPCPLDTRLRVPPPLTPLSTIRNFTLGGPSAGVTGPGASGGSEGPRLPGSSSA
AAAAAAAAAYNP HHLPLRPILRPRKYPNRPSKTPVHERPYPCPAEGCDRRFSRSDDELTRHIRIHTGHKPFQCRIC
MRNFSRSDHLTTHIRHTGEKPFACDYCGRKFARSDEKRRHTKIHLRQKERKSSAPSASVPAPSTASCSSGGVQPG
GTLCSSNSSSLGGGPLAPCSSRTRTP

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FIGURE 531

GCCCAGGTGACTGACTAATCCGCCGCCTTCAGGAGACAGAATTGGCCAAGGCCTGAAGGCCCGGAGTGCACCAG
CGGCATGTACAAAGAGACCGTCTACTCCGCCCTTCAATCTGCTCATGCATTACCCACCCCCCTCGGGAGCAGGGCA
GCACCCCCAGCCGCAGCCCCCGCTGCACAAGGCCAATCAGCCCCCCCCACGGTGTCCCCCAACTCTCTCTACGA
ACATTTCAACAGCCCATCCACCCCTGCACCTGCGGACATCAGCCAGAAGCAAGTTCACAGGCCTCTGCAGAC
CGACCTCTCTGGCTTCTACTCCCTGACCTCAGGCAGCATGGGGCAGCTCCCCACACTGTGAGCTGGTTTAC
GCATCCTTGATGCTAGGTTCTGGTGTACCTGGTCACCCAGCAGCCATCCCCACCCGGCCATTGTGCCCCC
AGGGAAGCAGGAGCTGCAGCCCTTCGACCGCAACCTGAAGACACAAGCAGAGTCCAAGGCAGAGAAGGAGGC
AAGAAGCCAACCATCAAGAAGCCCCCTCAATGCCTTCATGCTGTACATGAAGGAGATGAGAGCCAAGGTCATTGC
AGTGCACACTTAAGGAGAGCGCTGCCATCAACCAGATCCTGGGCCCGCAGGTGGCACGCGCTGTGCGGAGAAGA
AGCCAAGTACTATGAGCTGGCCCGCAAGGAGAGGCAGCTGCACATGCAGCTATACCCAGGCTGGTCAGCGCG
AACTACGGGAAGAAGAAGAGGCGGTGAGGGGAAAAGCACCAAGAATCCACCACAGACCCCTGGCTCGCCTAA
ATGCCGTGCTCGCTTTGGCCTCAACCAGCAGACGGATTGGTGTGGTCCGTGCAGATAACTCTCTTCACTATT
AGGAGGAAAAAGAAATGCATTCCGTACTTACCCGGAGAAGGCCGCTGCCCCAGCCCCGTTCTTCCGATGAC
ATGCTCTAGGCTGCCCCGGGTCCCCAGCTCCCCAGGACTCACCTCATACCATCTGCTGCCCGCTTCCCCACA
GAAGTGTCTACTAGCCCTGCGGAGCGGCACCTACATCCCCAGGTCTCTCCACTGCTCTCAGCCTCCCAACCCAG
GGCCCCACAGGCCCGCCGAGCACCCTGCAGAGCACACAGGTACAGCAACAGGAATCTCAGAGACAGGTGGCCT
AGCAGGCACAGGACACCTGGCCGCTCCAGGAGCCTACCCCTGAAAATGACAGAGACCCAGATCTCATGGAAAC
TGGCAGGGGTCTGTAAACGTCTCTCAGGGTCCAGACCCTGAAGATTTAGAGGCTGCAGAACTTCTGCCTGAA
CCTGGGGTCTCGATTCAAAGTCTCAAGTGGTGGGAATCAGATCTGTCTTGATGTGTCTCTAATTAAGGGAA
TCCCTTGTACCTATGACTCCGTGATCTATTCTTTGTACCATCTGTCTTGCCAGCCAGAAGCCTCTGCCTCCCTA
GCTTTTCTGCTATAGGTGAGAGATGGGCTGAAGTGTGAGCTAGCTACCTTCTCTACCCATCTCCCCATCCCCAC
TGCCACACCCTCCCCATTGAGACACTTCATGGACCAAGAATGAGCTGGTTTGTCAAACAACATGTGAGCATGGTC
ACAAGCACAAAGCTCAAGATGACAGCTCTTCTAAGGAAATGGAGAAGCTCTGTTTATAAAAACAAAAACAAACC
AGCTGCTACTCATAAGTTGGACCAGAGGAAGCCCTTACTATGATCTCAGGAGCTTGCAAGAAGCAGGAAGGGGA
ATGGAATAGGTTAAGTTTAGGCCTATCAACCTAAGCAACAGAAATAATCTGACACTACCTTATCAGGCAAATTGG
GGAGGGGAGGGTGTATCTAGCTCTAGTTCAAATTATTTGGAAGTGTCCCTGAGAAACCCACCAGCCTAAGAAGC
TCTGGCCCCAGGCTTGTACTAGCAGCTGCAGTCAACAGTTCAAAGAAGTCATGGCCCCAATCCAGTGTGCACCC
CTCCCCATTACAGAGCCTTTTTTCACAATTCATTTCAGTTTCTATGGCAGTCCAGCCAGCTTCTGGGCAGC
TTGAGAGGGCAAACCCAAAACCTCATGACAGCCAGAGCCTGTCTTTCAGCATTAGTTCGCTGGGAAGCTCCAGT
TTCCCCATGGGGCTGCGGGACAGAGGACCATTACAAGTAGATCAAGGAGCCCAGAAAACCTCCAGTAGTGACAA
CAGGTTTTTACCATAGCCTACGTTAACCCATTTTTTGAGCCAAGCTTCAACCCTCAGCCTTGAAAAACAAGTCTTT
AATTTAATTTTTGTTTTTGCCTAAATCCAAAGAAAAAGGGCTGCCGGGCCAGGCGCGGTGTCACGCCTGTAAT
CCCAGCACTTTGGCAGGCCGAGGCAGGTGGATCACCTGACGTGAGTAGTTTGAGACCAGCCTGGCCAACATGGTG
AAACCCTGTATCTACTAAAAATACAAAAATTAGCCGGACGTGGTGGTGCAGCATGTAATCCAGCTACTCGGGA
GGCTGAGGCGGAAGAATCACTTGAACCCGGGAGGCGGAGGTTCCAGTGAGCCGAGATGGCGCTATTGCACTCCAG
TCTGGGTAACAGGGGAGACTGCATCTCAAAAAAAAAAAAAAAAAAGGGCTGTCCATGTATTACACACCCCTC
AAAAAAGCCTTTAGTTCTACTTTAGCCACTGGTTTCTCAGAATCCAAAGATCACATATTCTAGTGTAACTG
CAAGAAGTCTTGAGAAAAAGATTATTGTAGTGTTCAAAATATTTTTGTATTGTTAATGCATCATCATAGAAAAAC
TTTTAAACATGAGAATAAAGATACTTTTTACTGGGTTTGTTTTTTCAAAGCCTGAAAAAA

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FIGURE 532

MYKETVYSAFNLLMHYPSPGAGQHPQPPLHKANQPPHGVPLSLYEHFNSPHPTPAPADISQKQVHRPLQTP
DLSGFYSLTSGSMGQLPHTVSWFTHPSLMLGSGVPGHPAAIPHPAIVPPSGKQELQPFDRNLKTQESKAEKEAK
KPTIKKPLNAFMLYMKEMRAKVIAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARD
NYGKKKRRSREKHQESTTDPGSPKKCRARFGLNQOTDWCGPCR

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FIGURE 533A

ATGAACCTCTGAAAACCTGCCGGCATCTGAGGTTTCCTCCAAGGCCCTCTGAAGTGCAGCCCATAATGAAGGTCTT
GGCGGCAGGAGTTGTGCCCCCTGCTGTTGGTTCTGCACTGGAAACATGGGGCGGGGAGCCCCCTCCCCATCACCCC
TGTCACGCCACCTGTGCCATACGCCACCCATGTACACAACAACCTCATGAACCAGATCAGGAGCCAACTGGCACA
GCTCAATGGCAGTGCCCAATGCCCTCTTTATTCTCTATTACACAGCCCAGGGGGAGCCGTTCCCCAACAACTTGA
CAAGCTATGTGGCCCCAACGTGACGGACTTCCCGCCCTTCCACGCCAACGGCACGGAGAAGGCCAAGCTGGTGGA
GCTGTACCGCATAGTCGTGTACCTTGGCACCTCCCTGGGCAACATCACCCGGGACCAGAAGATCCTCAACCCAG
TGCCCTCAGCCTCCACAGCAAGCTCAACGCCACCGCCGACATCCTGCGAGGCCCTCCTTAGCAACGTGCTGTGCCG
CCTGTGCAGCAAGTACCACGTGGGCCATGTGGACGTGACCTACGGCCCTGACACCTCGGGTAAGGATGTCTTCCA
GAAGAAGAAGCTGGGCTGTCAACTCCTGGGGAAGTATAAGCAGATCATCGCCGTGTTGGGCCAGGCCTTCTAGCA
GGAGGTCTTGAAGTGTGCTGTGAACCGAGGGATCTCAGGAGTTGGGTCCAGATGTGGGGGCTGTCCAAGGGTGG
CTGGGGCCCAGGGCATCGCTAAACCCAAATGGGGGCTGCTGGCAGACCCCGAGGGTGCCTGGCCAGTCCACTCCA
CTCTGGGCTGGGCTGTGATGAAGCTGAGCAGAGTGGAAACTTCCATAGGGAGGGAGCTAGAAGAAGGTGCCCTT
CCTCTGGGAGATTGTGGACTGGGGAGCGTGGGCTGGACTTCTGCCTCTACTTGTCCCTTTGGCCCCCTTGCTCACT
TTGTGCAGTGAACAACTACACAAGTCATCTACAAGAGCCCTGACCACAGGGTGAGACAGCAGGGCCCCAGGGGAG
TGGACCAGCCCCCAGCAAATTATCACCATCTGTGCCTTTGCTGCCCTTAGGTTGGGACTTAGGTGGGCCAGAGG
GGCTAGGATCCCAAAGGACTCCTTGTCCTCTAGAAGTTTGATGAGTGAAGATAGAGAGGGGCTCTGGGATGGA
AGGCTGTCTTTTGGAGATGATCAGAGAAGTGGGCATAGGAACAATCTGGCAGAAGTTTCCAGAAGGAGGTC
ACTTGGCATTAGGCTCTTGGGGAGGCAGAGAAGCCACCTTACGGCCTGGGAAGGAAGACACTGGGAGGAGGAGA
GGCCTGGAAAGCTTTGGTAGGTTCTTCGTCTCTTCCCCGTGATCTTCCCTGCAGCCTGGGATGGCCAGGGTCTG
ATGGCTGGACCTGCAGCAGGGGTTTGTGGAGGTGGGTAGGGCAGGGGAGGTTGCTAAGTCAGGTGCAGAGGTTT
TGAGGGACCCAGGCTCTTCTCTGGGTAAAGGTCTGTAAGAAGGGGCTGGGGTAGCTCAGAGTAGCAGCTCACAT
CTGAGGCCCTGGGAGGTCTTGTGAGGTCACACAGAGGTAAGTGGAGGGGACTGGAGGCCGTCTCTGGTCCCAGG
GCAAGGGAACAGCAGAACTTAGGGTCAGGGTCTCAGGGAACCCCTGAGCTCCAAGCGTGTGTGCGTCTGACCTGG
CATGATTTCTATTTATTATGATATCCTATTTATATTAAGTATTGGTGCTTTTCAAGTGGCCAAGTTAATTTCCCTT
TCCCTGGTCCCTACTCAACAAAATATGATGATGGCTCCCGACACAAGCGCCAGGGCCAGGGCTTAGCAGGGCCTG
GTCTGGAAGTCGACAATGTTACAAGTGAATAAGCTTACGGGTGAAGCTCAGAGAAGGGTCGGATCTGAGAGAAT
GGGGAGGCCTGAGTGGGAGTGGGGGGCCTTGCTCCACCCCCATCCCTACTGTGACTTGCTTTAGCGTGTGAGGG
TCCAGGCTGCAGGGGCTGGGCCAATTTGTGGAGAGGCCGGGTGCCTTTCTGTCTTGCTTCCAGGGGGCTGGTTCA
CACTGTTCTTGGGCGCCCCAGCATTGTGTTGTGAGGCGCACTGTTCTTGGCAGATATTGTCCCCCTGGAGCAGT
GGGCAAGACAGTCTTGTGGCCCCACCTGTCTTGTGTTCTGTGTCCCATGCTGCCTCTGAAATAGCGCCCTGGA
ACAACCTGCCCCCTGCACCCAGCATGCTCCGACACAGCAGGGAAGCTCCTCCTGTGGCCCGGACACCCATAGACG
GTGCGGGGGGCTGGCTGGGCCAGACCCAGGAAGGTGGGGTAGACTGGGGGGATCAGCTGCCCCATTGCTCCCAA
GAGGAGGAGAGGGAGGCTGCAGACGCCTGGGACTCAGACCAGGAAGCTGTGGGCCCTCCTGCTCCACCCCCATCC
CACTCCCACCCATGTCTGGGCTCCAGGCAGGGAACCCGATCTCTTCTTTGTGCTGGGGCCAGGCGAGTGGAGA
AACGCCCTCCAGTCTGAGAGCAGGGGAGGGAAGGAGGCAGCAGAGTTGGGGCAGCTGCTCAGAGCAGTGTCTGG
CTTCTTCTCAAACCTGAGCGGGCTGCCGGCCTCCAAGTTCTCCGACAAGATGATGGTACTAATTATGGTACTT
TTCACTCACTTTGCACCTTTCCCTGTGCTCTCTAAGCACTTTACCTGGATGGCGCGTGGGCAGTGTGCAGGCAG
GTCTGAGGCCTGGGGTTGGGGTGGAGGGTGGCGCCGAGTTGTCCATCTGTCCATCCCAACAGCAAGACGAGG
ATGTGGCTGTTGAGATGTGGGCCACACTCACCTTGTCCAGGATGCAGGGACTGCCTTCTCCTTCTGCTTCATC
CGGCTTAGCTTGGGGCTGGCTGCATTCCCCCAGGATGGGCTTCGAGAAAGACAACTTGTCTGGAAACCAGAGTT
GCTGATTCCACCCGGGGGGCCGGCTGACTCGCCCATCACCTCATCTCCCTGTGGACTTGGGAGCTCTGTGCCAG
GCCCACCTTGCGGCCCTGGCTCTGAGTCGCTCTCCACCCAGCCTGGACTTGGCCCCATGGGACCCATCCTCAGT
GCTCCCTCCAGATCCCGTCCGGCAGCTTGGCGTCCACCTGCACAGCATCACTGAATCACAGAGCCTTGGCGTGA
AACAGCTCTGCCAGGCCGGGAGCTGGGTTTCTCTTCCCTTTTTATCTGCTGGTGTGGACCACACCTGGGCCTGGC
CGGAGGAAGAGAGAGTTTACCAAGAGAGATGTCTCCGGGCCCTTATTTATTTAAACATTTTTTAAAAAGCA
CTGCTAGTTTACTTGTCTCTCTCTCCCATCGTCCCATCGTCTCTTGTCCCTGACTTGGGGCACTTCCACCTT
GACCCAGCCAGTCCAGCTCTGCCTTGCCGGCTCTCCAGAGTAGACATAGTGTGTGGGGTTGGAGCTCTGGCACCC
GGGGAGGTAGCATTTCCCTGCAGATGGTACAGATGTTTCTGCCTTAGAGTCATCTCTAGTTCCTCCACCTCAATCC

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FIGURE 533B

CGGCATCCAGCCTTCAGTCCCGCCCACGTGCTAGCTCCGTGGGCCCCACCGTGCGGCCTTAGAGGTTTCCCTCCTT
CCTTTCCACTGAAAAGCACATGGCCTTGGGTGACAAATTCCTCTTTGATGAATGTACCCTGTGGGGATGTTTCAT
ACTGACAGATTATTTTATTTATTCAATGTCATATTTAAATATTTATTTTATACCAAATGAATCACTTTTTT
TTTTAAGAAAAAAGAGAAATGAATAAAGAATCTACTCTTCG

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FIGURE 534

MKVLAAGVVP LLLVLHWKHGAGSPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFILYYTAQGEFPF
NNLDKLCGPNVTDFFPFHANGTEKAKLVELYRIVVYLGTS LGNITRDQKILNP SALSLSKLNATADILRGLLSN
VLCRLCSKYHVGHVDVTYGPDTSGKDV FQKKKLGCQLLGKYKQIIAVLAQAF

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FIGURE 535

TAGGATGGAAAGGCAGATGTAAAGTCCCTCATGGCGAAATATAACACGGGGGGCAACCCGACAGAGGATGTCTCA
GTCAATAGCCGACCCTTCAGAGTCACAGGGCCAACTCATCTTCAGGAATACAAGCAAGAAAGAACTTATTCAAC
AACCAAGGAAATGCCAGCCCTCCTGCAGGACCCAGCAATGTACCTAAGTTTGGGTCCCCAAAGCCACCTGTGGCA
GTCAAACCTTCTTCTGAGGAAAAGCCTGACAAGGAACCCAAGCCCCCGTTTCTAAAGCCCCTGGAGCAGGCCAA
AGATTTCGGAACACCAGCCAGCTTGACCACCAGAGACCCCGAGGCGAAAGTGGGATTTCTGAAACCTGTAGGCCCC
AAGCCCATCAACTTGCCCAAGAAGATTCCAAACCTACATTTCCCTGGCCTCCTGGAAACAAGCCATCTCTTCAC
AGTGTAACCAAGACCATGACTTAAAGCCACTAGGCCCCGAAATCTGGGCCTACTCCTCCAACCTCAGAAAATGAA
CAGAAGCAAGCGTTTCCCAAATTGACTGGGGTTAAAGGGAAATTTATGTCAGCATCACAAGATCTTGAACCCAAG
CCCCCTTCTCCCAAACCCGCCTTTGGCCAGAAGCCGCCCTTAAGTACCGAGAACTCCCATGAAGACGAAAGCCCC
ATGAAGAATGTGTCTTCATCAAAGGGTCCCCAGCTCCCCCTGGGAGTCAGGTCCAAAAGCGGCCCTTTAAACCA
GCAAGGGAAGACTCAGAAAATAAAGACCATGCAGGGGAGATTTCAAGTTTGCCCTTTTCTGGAGTGGTTTTGAAA
CCTGCTGCGAGCAGGGGAGGCCTAGGTCTCTCCAAAAATGGTGAAGAAAAAAGGAAGATAGGAAGATAGATGCT
GCTAAGAACACCTTCAGAGCAAAATAAATCAGGAAGAGTTGGCCTCAGGGACTCCTCCTGCCAGGTTCCCTAAG
GCCCCTTCTAAGCTGACAGTGGGGGGGCCATGGGGCCAAAGTCAGGAAAAGGAAAAGGGAGACAAGAATTCAGCC
ACCCCGAAACAGAAGCCATTGCCTCCCTTGTTTACCTTGGGTCCACCTCCACCAAACCCAACAGACCACCAAAAT
GTTGACCTGACGAAATTCACAAAACCTCTTCTGGAACAGTACTAGCAAAGGCCAGACGTCTTACTCAACAACT
TCCCTGCCACCACCTCCACCATCCCATCCGCCAGCCAACCACCATTGCCAGCATCTCACCCATCACAACCACCA
GTCCCAAGCCTACCTCCCAGAAACATTAAACCTCCGTTTGACCTAAAAAGCCCTGTCAATGAAGACAATCAAGAT
GGTGTCACGCACTCTGATGGTGTCTGGAAATCTAGATGAGGAACAAGACAGTGAAGGAGAAACATATGAAGACATA
GAAGCATCCAAAGAAAGAGAGAAGAAAAGGGAAAAGGAAGAAAAGAAGAGGTTAGAGCTGGAGAAAAAGGAACAG
AAAGAGAAAGAAAAGAAAGAACAAGAAATAAAGAAGAAATTTAAACTAACAGGCCCTATTCAAGTCATCCATCTT
GCAAAAGCTTGTTGTGATGTCAAAGGAGGAAAGAAATGAAGTGAAGCTTCAAGCAAGGAGAGCAAATTGAAATCATC
CGCATCACAGACAACCCAGAAGGAAAATGGTTGGGCAGAACAGCAAGGGGTTTATATGGCTATATTAACAACCT
GCTGTAGAGATTGACTATGATTCTTTGAAACTGAAAAAGACTCTCTTGGTGCCCTTCAAGACCTATTGAAGAT
GACCAAGAAGTATATGATGATGTTGCAGAGCAGGATGATATTAGCAGCCACAGTCAGAGTGGAAGTGGAGGGATA
TTCCCTCCACCACCAGATGATGACATTTATGATGGGATTGAAGAGGAAGATGCTGATGATGGTTTCCCTGCTCCT
CCTAAACAATTGGACATGGGAGATGAAGTTTACGATGATGTGGATACCTCTGATTTCCCTGTTTCATCAGCAGAG
ATGAGTCAAGGAACTAATTTTGGAAAAGCTAAGACAGAAGAAAAGGACCTTAAGAAGCTAAAAAAGCAGGAAAAA
GAAGAAAAAGACTTCAGGAAAAAATTTAAATATGATGGTGAAATTAGAGTCCTATATTCAACTAAAGTTACAACCT
TCCATAACTTCTAAAAAGTGGGGAACCAGAGATCTACAGGTAAAACCTGGTGAATCTCTAGAAGTTATACAAACC
ACAGATGACACAAAAGTTCTCTGCAGAAATGAAGAAGGGAAATATGGTTATGTCCTTCGGAGTTACCTAGCGGAC
AATGATGGAGAGATCTATGATGATATTGCTGATGGCTGCATCTATGACAATGACTTAGCACTCAACTTTGGTCATT

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FIGURE 536

MAKYNTGGNPTEDEVSVNSRPFRTVGNSSSGIQARKNLFNNQGNASPPAGPSNVPKFGSPKPPVAVKPSSEKPD
KEPKPPFLKPTGAGQRFGTPASLTTRDPEAKVGFLKPVGPKPINLPKEDSKPTFPWPPGNKPSLHSVNQDHDLP
LGPKSGPTPFTSENEQKQAFPKLTGVKGKFMASQDLEPKPLFPKPAFGQKPPLSTENSHEDESPMKNVSSSKGS
PAPLGVRSKSGPLKPARESENKDHAGEISSLPFGVVLKPAASRGGLGLSKNGEEKKEDRKIDAAKNTFQSKIN
LASGTPPARFPKAPSKLTVGGPWGQSQEKEKGDKN SATPKQKPLPPLFTLGPPPPKPNRPPNVDLTKFHKTS
TSKGQTSYSTTSLPPPPSHPASQPPLPASHPSQPPVPSLPPRNIKPPFDLKSPVNEDNQDGVTHSDGAGN
EQDSEGETYEDIEASKEREKKREKEEKRLLEKKEQKEKEKKEQEIKKKFKLTGPIQVIHLAKACCDVKGG
NELSFKQGEQIEIIRITDNPEGKWLGR TARGSYGYIKTTAVEIDYDSLKLKDSLGLAPSRIEDDQEVYDDVAE
ISSHSQSGSGGIFPPPPDDDIYDGIEEEDADDGFPAPPKQLDMGDEVYDDVDTSDFPVSSAEMSQGTNFGKA
KDLKLLKKQEKEEKDFRKKFKYDGEIRVLYSTKVTTSTSKKWGTRDLQVKPGESLEVIQTDDTKVLCRN
KYGVLRSYLADNDGEIYDDIADGCIYDND

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FIGURE 537A

CGAAGAGGATCCGGAGCAGCTGCTGCCAGCCCGCGGGCACTGAAGTCCTCCCGGCTGCCGCTCGAGTAGCCACGG
GCGCGATCGGGACCAGAAGTCTCCTCCTCCATGATCACTTTGGAAGCCGGGGGGGAAGACTTTGCCCTGCCCTGA
GAGCTGGTCTGCGTTTTCCAGGCGCGGCGGCGGAGCAGCAGCTGCAGCAGCCGAGTCCAAATAGGAGCGGCC
ACAGCCAGGGGCGTGTGCGCCCCGCGCGGAGCGAGCTCGGGTTCCCTCGGAATGTCCCGGGGGCGCCGCGCG
CTGACCCCGAAGCCGCCCTCCGCCCTTCGGCGCCTGCTGCCTCCCTCGGCCAGGCTTGTTGTTCTGGGACTGTGAGCT
TCCTGGCTCCTGGGCAGTGGGGAAGCCCCCGGGGGCGAGTGACCTCAGCTGGCCACGACCCAGCCCTCCCCCGTG
CGTATCTCGCTTAAGATGGCAGCGGAGTCAGGGGAACATAATCGGGGCTTGTTGAGTTTCATGAAAGATCGGTTATAT
TTTGCTACTTTAAGGAATAGACCAAAAAGCACAGTAAATACCCACTATTTCTCCATCGATGAGGAGCTGGTCTAT
GAAAAATTTCTATGCAGATTTTGGACCGCTGAACTTGGCAATGGTGACAGATATTGCTGCAAACTAAACAAGAAA
CTAAAAATCATACAGTTTGTCAAGAAAGAAAATAGTGCACTACACCTGTTTTGACCAACGGAAAAGAGCAAATGCA
GCATTTTTGATAGGTGCCTATGCAGTAATCTATTTAAAGAAGACACCAGAAGAAGCCTACAGAGCACTCCTGTCT
GGCTCAAACCCCCCTATCTTCCATTACAGGGATGCTTCCTTTGGAATTTGCACCTACAATCTCACCATTCTCGAC
TGTTTGCAGGGAATCAGAAAGGGATTACAACATGGATTTTTTGACTTTGAGACATTTGATGTGGATGAATATGAA
CATTATGAGCGAGTTGAAAATGGTGACTTCAACTGGATTGTTCCAGGAAAATTTTAGCATTTAGTGAGCCACAT
CCTAAAAGCAAATTTGAGAATGGTTATCCTCTTCACGCCCTGAAGCCTACTTTCCTTATTTCAAAAAGCATAAT
GTGACTGCAGTTGTGAGGCTAAACAAAAGATTTATGAGGCAAAGCGCTTCACAGACGCTGGCTTCGAGCACTAT
GACCTCTTCTTCATAGATGGCAGCACACCCAGTGACAACATCGTGCGAAGGTTCTGAACATCTGTGAGAACACC
GAAGGGGCCATCGCCGTTCACTGCAAAGCTGGCTTTGGAAGAACAGGGACATTGATAGCCTGTTATGTAATGAAA
CACTACAGGTTTACACATGCTGAAATAATTGCTTGGATTAGAATATGCCGGCCAGGCTCTATTATAGGACCCAG
CAGCACTTCTTGAAGAAAAACAAGCATCGTTGTGGGTCCAAGGAGACATTTCCGATCCAACTGAAAAATCGA
CCATCCAGTGAAGGAAGTATTAATAAAATTTCTTCTGGCCTAGATGATATGTCTATTGGTGGAATCTTTCAAAA
ACACAAAACATGGAACGATTTGGAGAGGATAACTTAGAAGATGATGATGTGGAATGAAAAATGGTATAACCCAG
GGAGACAACTACGTGCCTTAAAAAGTCAGAGACAGCCACGTACCTCACCATCCTGTGCATTTAGGTCAGATGAT
ACAAAAGGACATCCAAGAGCAGTGTCCAGCCTTTCAGATTAAGTTCATCCCTGCAAGGATCTGCAGTTACTTTG
AAGACATCAAAAATGGCACTGTCCCCTTCAGCAACGGCCAAGAGGATCAACAGAACTTCTTTGTCTTCGGGTGCC
ACTGTAAGAAGCTTTTCCATAAACTCCCGGCTAGCCAGTTCTCTAGGGAACCTGAATGCTGCAACAGATGATCCA
GAGAACAAAAGACCTCCTCATCCTCTAAGGCAGGCTTCACAGCCAGCCCGTTTACCAACCTCTGAAATGGCAGC
TCCAGCCAACTACCAAGAAATTACCCTGAGCTCAACAATAATCAGTACAACAGAAGCAGCAACAGCAACGGGGGC
AACCTGAACAGCCCCCAGGCCCCCACAGCGCCAAGACAGAGGAGCACACCACCATCCTCCGACCTCCTACACC
GGGCTTTCTTCTTCTTCAGCGAGATTCTTGAGCGGTTCTATCCCTTCCCTTCAGTCTGAATATGTTTACTACTAA
GGCCTTGCCACTCCAGTGAAAGCTGTTCTTCTCTTAGACACAATTTCTTCATCTGGACGAGCAGTGAGAGGGGAA
AGCAACTTCTTGCTGGAAGAATATCTCTGCCTTCTTACCTTAAATTAAGAGAGCACTAAGATAACACCTTCAAG
AGACTTGAAACAGAAAACCTGGTTAATGACTACTATAAATGCACTGAACTATGTTATGGAGATTTCCATACTTT
TAAAGACAGTTTAAATGTTGAATTTGGTATTTTGAAGGGTTATTTTAAATGTATTTTGGTAATACATTTATTATT
ATATTTACATGTACAGTGTTACATTATATATGATTGTGAACCTTTAAAGACTATTTTGATAAAATTTATAAATAT
ATAAAATTATGTAAAACTACACTATATTTTGATTTAGATTTTCTGCTGTTTGCTACCAAAAATTTGTATTTTA
AATCTGTTTAGTTTTAGTATGGTTTTGTCTCTAATGAATAAATAATTCCTTCTTATTAAGAAGAAGTAAGGGAGA
AAGTTTTTAGAAAGTGATTTTATGCTCGCACTATAAATATGGCAGGTCAGTTTCTTTTGGGAAGTCAGTTT
AGTTACACTGAGTTTATCCAAGTTTATCTCTACCAAGAGTATAATGGCATGGGATGGCTTATTTAGGACAATTCC
CTTTCCTATTGTTTTTGTGCTGAGCCAATTGAGTTAGTTTTGCATCCTGGGGGGCTTTAAATACAGCATGCA
GTGAAAGATCAGAAATCACTGAATATTTCTTCTGAGAGCATGGTTTCATGGTTTTCTCTATGAAATGACTCAAT
ATTCCAAATGTTTTTTTTCTTCTCCTTTCAAAAGAGTTCTTAACCCAATTAGGATATCCTGCTTTGGGTATG
AGGTTGTTGTTGCCTGTAATCACACATGGTTTGACATCAGTTTTAAATCAATGGAGAGAAAAACTGAAAAAGAT
GCTGCTAAGTAGTTCTCTGTATTAAAGGAGATATTTTAAACAGGGTACAACCCCTGCTGCACACGCTAGCAT
ATCTGGAACCTACTATGAAAAATGAAAGGACCTTATAGGTACTCACAGCCCTTCATGTAAGTATGATCTGATAT
TTAGGTCTTCAGAAAGCCTGTAGGTTTCATTTCTATGAGGAATCGAGGAGCGTTACATCCTGATATCCTTCCAGGC
TGCTTAAGAATGGACTGCTTCGACACTGAAAGTGCTAGTTAAATGGATTTCATATGAAGTGCTTTACTCCCAACCA
TTGAGTTATTTATAATGTATTTATTAGGGGAGGGTACCTTGAGTCTATTATATATGCTTCATCAAAACATCTTGT

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FIGURE 537B

TCATGTTTTATGTTTTTAAAAAAGGCATTTGAATGAATGTTTGACTCAGGTTTGTTAAATTAAC TTCAGTAACTG
CAGTACCAAAAATTACACTCAACTGATGAAAAAACGAATTGTATGATTTAGGAATCAAAA ACTAAAATAAGTGG
AATTATGTATCTTTTCTAAAGTTAAAAAAGTAAATATTTTATTATGAGTTATTATAAAAAATTGGTTAATTGTAT
AGGAAGATGACAGTATTTTTTTCAAGTTATCATAAAAAGTAATTCAGATGACATTTGAGAAGTAGGGGAAAGGGA
ATCATGTTGACAGTTTTAGTTCTGTGAACACTAATTTGTGTGAAGCTATTAAAATGATTGTAAAGTTGACTACTG
TAAATTTCCCATATAATTATGTGTGTATATGTGTCATATGTATGTACATGTATATGTCTAAAAATTACTTTACACAT
GTGCCTACATAGACACACCAAGAAGTGGATGTATATAATATAGAAAGTATATAGCAAAGTAATTTTACTCTGATA
ATAAAAATTGTTTGACATGTATTTTGTTATGAATAGTTTATCTTCCAAAAGATATTTTGCTCTATTTTAAAGTGT
AGAAGAATACACTGCTAATAAATAATAAAAGTTTTATTCAATTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 538

MAAESGELIGACEFMKDRLYFATLRNRPKSTVNTHYFSIDEELVYENFYADFGPLNLAMVYRYCCKLNKKLKSYS
LSRKKIVHYTCFDQRKRANAFLIGAYAVIYLKKTPEEAYRALLSGSNPPYLPFRDASFGNCTYNLTILDCLQGI
RKGLQHGFDFETFDVDEYEHYERVENGDENWIVPGKFLAFSGPHPKSKIENGYPLHAPEAYFPYFKKHNVIAVV
RLNKKIYEAKRFTDAGFEHYDLFFIDGSTPSDNIVRRFLNICENTEGAIAVHCKAGLGRTGTLIACYVMKHYRT
HAEIIAWIRICRPGSIIGPQQHFLEEKQASLWVQGDIFRSKLKNRPSSEGSINKILSGLDDMSIGGNLSKTQNM
RFGEVSFP

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FIGURE 539

CACTCCCAAAGAACTGGGTACTCAACACTGAGCAGATCTGTTCTTTGAGCTAAAAACCATGTGCTGTACCAAGAG
TTTGCTCCTGGCTGCTTTGATGTCAGTGCTGCTACTCCACCTCTGCGGCGAATCAGAAGCAGCAAGCAACTTTGA
CTGCTGTCTTGGATACACAGACCGTATTCTTCATCCTAAATTTATTGTGGGCTTCACACGGCAGCTGGCCAATGA
AGGCTGTGACATCAATGCTATCATCTTTCACACAAAGAAAAAGTTGTCTGTGTGCGCAAATCCAAAACAGACTTG
GGTGAAATATATTGTGCGTCTCCTCAGTAAAAAAGTCAAGAACATGTAAAACTGTGGCTTTTCTGGAATGGAAT
TGGACATAGCCCAAGAACAGAAAGAACCTTGCTGGGGTTGGAGGTTTCACTTGCACATCATGGAGGGTTTAGTGC
TTATCTAATTTGTGCCTCACTGGACTTGTCCAATTAATGAAGTTGATTCATATTGCATCATAGTTTGCTTTGTTT
AAGCATCACATTAAAGTTAACTGTATTTTATGTTATTTATAGCTGTAGGTTTTCTGTGTTTAGCTATTTAATAC
TAATTTTCCATAAGCTATTTTGGTTTAGTGCAAAGTATAAAATTATATTGGGGGGGAATAAGATTATATGGACT
TTCTTGCAAGCAACAAGCTATTTTTTAAAAAACTATTTAACATTCTTTTGTATTATTGTTTTGTCTCCTAAAT
TGTTGTAATTGCATTATAAAATAAGAAAAACATTAATAAGACAAATATT

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FIGURE 540

MCCTKSLLLAALMSVLLHLGGESEAASNFDCCLGYTDRILHPKFIVGFTRQLANEGCDINAIIFHTKKKLSVCA
NPKQTWVKYIVRLLSKKVKNM

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FIGURE 541

GGCACCGATTGCGGGCCTGCCCGGACTTCGCCGCACGCTGCAGAACCTCGCCCAGCGCCCACCATGCCCCGGCAG
CTCAGCGCGGCGGCCGCGCTCTTCGCGTCCCTGGCCGTAATTTTGCACGATGGCAGTCAAATGAGAGCAAAAGCA
TTTCCAGAAACCAGAGATTATTCTCAACCTACTGCAGCAGCAACAGTACAGGACATAAAAAAACCTGTCCAGCAA
CCAGCTAAGCAAGCACCTCACCAAACCTTTAGCAGCAAGATTTCATGGATGGTCATATCACCTTTCAAACAGCGGCC
CTTAAAAATTCCAACAACCTACCCAGCAACTACAAAAAACTGCAACCACCAGCCCAATTACCTACACCCTG
ACAACCCAGGCCACACCCAACAACCTCACACACAGCTCCTCCAGTTACTGAAGTTACAGTCGGGCCCTAGCTTA
CCTTATTCACTGCCACCCACCATCACCCACCAGCTCATACAGCTGGAACAGTTTCATCAACCGTCAGCCAC
AAACTGGGAACACCACTCAACCCAGTAACCAGACCACCCTTCCAGCAACTTTATCGATAGCACTGCACAAAAGC
AACCGGTCAGAAGCCTGATCAACCCACCCATGCCCCAGGAACAACGGCAGCTGCCACAAATACCACCCGCACA
GCACCTGCCTCCACGGTTCCTGGGCCCCACCTTGACCTCAGCCATCGTCAGTCAAGACTGGAATTTATCAG
CTTAAACGGAAGCAGACTCTGTATAAAAGCAGAGATGGGGATACAGCTGATTGTTCAAGACAAGGAGTCGGTT
TCACCTCGGAGATACTTCAACATCGACCCCAACGCAACGCAAGCCTCTGGGAACCTGTGGCACCCGAAAATCC
CTTCTGTTGAATTTTTCAGGGCGGATTTGTGAATCTCACATTTACCAAGGATGAAGAATCATATTATATCAGT
CAAGTGGGAGCCTATTTGACCGTCTCAGATCCAGAGACAGTTTACCAAGGAATCAAACATGCGGTGGTGATGTTT
CAGACAGCAGTCGGGCATTCTTCAAGTGCGTGAGTGAACAGAGCCTCCAGTTGTCAGCCACCTGCAGGTGAAA
ACAACCGATGTCCAACCTTCAAGCCTTTGATTTTGAAGATGACCACCTTGGAAATGTGGATGAGTGCTCGTCTGAC
TACACAATTGTGCTTCTGTGATTGGGGCCATCGTGGTTGGTCTCTGCCTTATGGGTATGGGTGTCTATAAAATC
CGCCTAAGGTGTCAATCATCTGGATACCAGAGAATCTAATTGTTGCCCGGGGGGAATGAAAATAATGGAATTTAG
AGAACTCTTTCATCCCTTCCAGGATGGATGTTGGGAAATTCCTCAGAGTGTGGGTCTTCAAACAATGTAAACC
ACCATCTTCTATTCAAATGAAGTGAGTCATGTGTGATTTAAGTTCAGGCAGCACATCAATTTCTAAATACTTTTT
GTTTATTTTATGAAAGATATAGTGAGCTGTTTATTTCTAGTTTCTTTAGAAATATTTTAGCCACTCAAAGTCAA
CATTTGAGATATGTTGAATTAACATAATATATGTAAAGTAGAATAAGCCTTCAAATTATAAACCAAGGGTCAATT
GTAATAATACTACTGTGTGTGCATTGAAGATTTTATTTTACCCTTGATCTTAACAAAGCCTTTGCTTTGTTATC
AAATGGACTTTTCAGTGCTTTTACTATCTGTGTTTATGGTTTCATGTAACATACATATTCTGGTGTAGCACTTA
ACTCCTTTTCCACTTTAAATTTGTTTTTGTTTTTTGAGACGGAGTTTCACTCTTGTCAACCCAGGCTGGAGTACAG
TGGCAGCATCTCGGCTTATGGCAACCTCCGCCTCCCGGTTCAAGTGATTCTCCTGCTTCAGCTTCCCGAGTAGC
TGGGATTACAGGCACACACTACCACGCCTGGCTAATTTTGTATTTTATTATAGACGGGTTTACCATGTTGGC
CAGACTGGTCTTGAACCTTTGACCTCAGGTGATCCAGCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATG
AGCCATTGCGCCCGGCCTTAAATGTTTTTTTAAATCATCAAAAAGAACAACATATCTCAGGTTGTCTAAGTGT
TTATGTAAAACCAACAAAAGAACAATCAGCTTATATTTTTTATCTTGATGACTCCTGCTCCAGAATTGCTAGA
CTAAGAATTAGGTGGCTACAGATGGTAGAATAAACAATAAGCAAGAGACAATAATAATGGCCCTTAATTATTAA
CAAAGTGCCAGAGTCTAGGCTAAGCACTTTATCTATATCTCATTTCATCTCACAACTTATAAGTGAATGAGTAA
ACTGAGACTTAAGGGAACCTGAATCACTTAAATGTCACCTGGCTAACTGATGGCAGAGCCAGAGCTTGAATTCATG
TTGGTCTGACATCAAGGTCTTTGGTCTTCTCCCTACACCAAGTTACCTACAAGAACAATGACACCACACTCTGCC
TGAAGGCTCACACCTCATACCAGCATACGCTCACCTTACAGGGAAATGGGTTTATCCAGGATCATGAGACATTAG
GGTAGATGAAAGGAGAGCTTTGCAGATAACAAAATAGCCTATCCTTAATAAATCCTCCACTCTCTGGAAGGAGAC
TGAGGGGCTTTGTAAAACATTAGTCAGTTGCTCATTTTTATGGGATTGCTTAGCTGGGCTGTAAAGATGAAGGCA
TCAATAAACTCAAAGTATTTTTTAAATTTTTTGTATAATAGAGAACTTCGCTAACCAACTGTTCTTTCTTGAGT
GTATAGCCCCATCTTGTGGTAACTTGCTGCTTCTGCACTTCATATCCATATTTTCTATTGTTCACTTTATTCTGT
AGAGCAGCCTGCCAAGAATTTATTTCTGCTGTTTTTTTTGCTGCTAAAGAAAGGAACCTAAGTCAGGATGTTAAC
AGAAAAGTCCACATAACCCTAGAATTTCTAGTCAAGGAATAATTCAAGTCAGCCTAGAGACCATGTTGACTTTCC
TCATGTGTTTTCTTATGACTCAGTAAGTTGGCAAGGTCCTGACTTTAGTCTTAATAAAACATTGAATTGTAGTAA
AGGTTTTTGCAATAAAAACCTACTTTGG

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FIGURE 542

MPRQLSAAAAALFASLAVILHDGSQMRKAFPETRDYSQPTAAATVQDIKKPVQQPAKQAPHQTLAARFMDGHITF
QTAATVKIPTTTTPATTKNTATTSPITYTLVTTQATPNNSTAPPVTEVTVGPSLAPYSLPPTITPPAHTAGTSSS
TVSHTTGNTTQPSNQTTLPATLSIALHKSTTGQKPDQPTHAPGTTAAAHNTTRTAAPASTVPGPTLAPQPSSVKT
GIYQVLNGSRLCIKAEMGIQLIVQDKESVFSPPRYFNIDPNATQASGNCGTRKSNLLLNFGGGFVNLTFTKDEES
YYISEVGAYLTVSDPETVYQGIKHAVVMFQTAVGHSFKCVSEQSLQLSAHLQVKTTDVQLQAFDFEDDHFGNVDE
CSSDYTIVLPVIGAIVVGLCLMGMGVYKIRLRCSGGYQRI

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FIGURE 543

AGCATCGCGCGCAAGGCCTGCCGTTGCTCGGGGTCGTATGACGCACITTTTCCAGCTCGAGCCCTCACGAGGCCG
TGGGTACGACCGGAAGCCGCAGACTGAATCTCGCTCTGTTGCCAGCCCATCTCGGCCCCACTGAAACCTCCACCT
CCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACAGGCGCCCGCCACCACGCCCAGCA
TGCTGATCCCATTTCATGAAGAATTGCTTCCAGTTACTTTGTAACTGCCAGGTCCCAGCAGCTGGCTTTAAAA
AAACAGTAAAAAATGGGCTCATTTTACAGTCAATTTCCAATGATGTCTATCAAAATCTGGCTGTGGAAGACTGGA
TCCATGACCATATGAATCTAGAAGGCAAACCAATTCTATTCTTTTGGCAGAATTCTCCCTCTGTTGTAATTGGTA
GGCATCAAAATCCTTGGCAGGAATGTAACCTGAATCTAATGAGAGAAGAAGGTATAAACTGGCTCGGAGAAGAA
GTGGAGGAGGAACAGTCTACCATGATATGGGTAATATCAATTTGACTTTCTTTACAACCAAAAAAAGTATGATA
GAATGGAAAAATCTGAAATTAATTGTGAGAGCTCTGAATGCTGTCCAACCCCAGCTGGATGTGCAGGCTACCAAAA
GATTTGACCTTTTACTTGATGGACAGTTTAAATCTCAGGAACAGCTTCTAAGATCGGCCGGACTACTGCCTATC
ACCATTGCACTTTTATTATGTAGTACTGATGGGACGTTCTTGTCTTCTTTGCTAAAGAGCCCTTACCAAGGGATCA
GGAGCAATGCCACTGCTAGCATACCTTCCTTAGTGAAAAATCTTTTGGAAAAGGATCCCACTCTGACCTGTGAAG
TACTAATGAATGCTGTTGCTACAGAGTATGCTGCTTATCATCAAAATTGATAATCACATTCACCTAATAAACCCAA
CGGATGAGACACTGTTTCCTGGAATAAATAGCAAAGCCAAAGAACTGCAAACCTGGGAGTGGATATATGGCAAAA
CTCCAAAGTTTAGTATAAATACTTCCTTTTCATGTGTTATATGAACAGTCACACTTGGAATTAAAGTATTCATAG
ACATAAAGAATGGAAGAATTGAAATTTGTAATATTGAAGCACCTGATCATTGGTTGCCATTGGAAATACGTGACA
AATTAAATTCAAGTCTTATTGGCAGTAAGTTTTGCCCACTGAAACTACCATGCTAACAAATATATTACTTAGAA
CATGTCCACAAGACCACAACTAAACAGTAAATGGAATATTCTCTGTGAAAAAATTAAGGGAATAATGTGATTCC
AAGTAAATGTCTTAATACAGTTTCAATTAGAAAATAAAATGTCTCATACTTGACATTGTATGTC

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FIGURE 544

MLIPFSMKNCFQLLCNCQVPAAGFKKTVKNGILQSI SNDVYQNLAVEDWIHDHNMLEGKPI LFFWQNSPSVIG
RHQNPWQECNLNLMREEGIKLARRRSGGGTVYHDMGNINLTFFT TTKKYDRMENLKLIVRALNAVQPQLDVQATK
RFDLLLDGQFKISGTASKIGRTTAYHHCTLLCSTDGTFLSSLLKSPYQGIRSNATASIPSLVKNLLEKDPTLTCE
VLMNAVATEYAAAHQIDNHIHLINPTDETLPFGINSKAKELQTWEWIYGKTPKFSINTSFHVLYEQSHLEIKVFI
DIKNGRIEICNIEAPDHWLPLEIRDKLNSSLIGSKFCPTETTMLTNILLRTCPQDHLNSKWNILCEKIKGIM

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FIGURE 545A

GCGGGGAGCCGGCGGTTATCTGGGCGGCGGAGCGCTCACAATGTGGCAGGAGACAGAAAAGATAAGATGCTCCCA
AGTCCCTTGCACTCTCTTCAGAAGAAAAATCACTAGTGCTCTGCTCTTGCCATAATACCAAACCTTTTGGACTC
ATGCTTTGGTGCTGCAACACTGGAAGAATTGCACACAGTTTCCAGGAATATCTTTTTTTCATTTGAGTGATTCTT
TGTTGGATGAGAAAAGATTGAGTCTTAATAATTACCTTGTTTTAAAGCTATTTCTTTATAGTCTGAACTGTTTAA
TAAATTGGGCCACTTACCAATGAGCCACACAGCCAGTTCTTGTCAGGAGCTGGTTGAAAACCTGTGCTGTGCATGT
AGCAGGAATGGCACAAGAAGATAGCCGTCGTGGTCAAGTGCCATCTTCCTTTTATCATGGTGCCAACCAAGAACT
TGACCTGTCCACCAAAGTGACAAAAGGGAATCAGGAAGTCCTTATTCTGTGTTAGTGAGACCAAGATGAGCAA
ACCGCATCTCCATGAAACAGAAGAACAGCCATATTTTCAGGGAGACAAGAGCAGTGTCTGACGTGCATGCTGTTAA
GGAAGAÇCGGGAGAATTCTGATGACACAGAGGAGGAAGAGGAAGAAGTCTCTTACAAAAGGGAGCAGATCATAGT
GGAGGTAAACCTTAATAATCAAACATTAAATGTATCTAAAGGGGAAAAGGGTGTCTCTTCTCAGTCCAAAAGAGAC
TCCTGTTCTTAAGACAAGCAGTGAGGAGGAAGAGGAAGAGAGTGAGGAAGAGGCCACAGATGACAGCAATGACTA
TGGAGAGAATGAAAAGCAGAAGAAAAAGGAGAAGATAGTAGAGAAAGTCAGCGTTACACAAAAGGAGAACCAGGAG
AGCTGCCTCTGTTGCCGAGCTACCACTTCCCCTACTCCCAGAACTACAAGAGGTTCGTAGGAAGAGTGTAGAGCC
ACCTAAGCGTAAGAAGCGGGCCACAAAGGAGGCCAAAGCACCAGTCCAGAAAGCTAAGTGTGAAGAGAAAAGAGAC
TCTGACCTGTGAGAAGTGCCCCAGGGTATTTAACACTCGCTGGTACCTGGAGAAGCACATGAACGTTACTCATAG
GCGCATGCAGATTTGTGATAAATGTGGCAAGAAGTTTGTCTGGAAAGTGAGCTGTCCCTTCACCAGCAAACAGA
CTGTGAAAAAACATTCACTGTGTTTCCCTGTAACAAATCGTTCAAGAACTCTGGTCCCTTCATGAACATATCAA
GATCGTCCATGGATATGCAGAAAAGAAATTTTCCCTGTGAAATTTGTGAGAAGAAATCTATACCATGGCTCATGT
GCGGAAACACATGGTTGCACACACAAAAGACATGCCATTTACATGCGAAACCTGTGGAAAATCATTCAAACGCAG
TATGTCACTCAAGGTGCACTCCTTGCAGCATTCTGGAGAGAAGCCCTTTAGATGCGAGAAGTGTGACGAAAGGTT
TCAGTACAAGTACCAGCTACGCTCCCACATGAGCATTATATTGGGCACAAACAGTTTATGTGCCAGTGGTGTGG
CAAGGATTTCAACATGAAGCAGTACTTCGACGAACACATGAAAACACACACTGGAGAGAAACCTTTATCTGTGA
AATCTGTGGCAAAGCTTCACCAGCCGCCCAACATGAAGAGACACCGCAGAACTCACACAGGCGAGAAGCCCTA
TCCATGTGATGTGTGTGGCCAGCGGTTCCGCTTCTCGAACATGCTTAAGGCCCAAGGAGAAGTGCTTTCCGGGT
GACCAGCCCCGTGAATGTGCCACCTGCTGTCCAGATCCCACTTACAACCTTCCCCAGCCACCCAGTTCCCTTCTGT
GGTGAACACAGCCACAACCCCAACCCCTCCAATCAATATGAATCCTGTAAGCACTCTTCCCCCTCGGCCCATCCC
CCACCCCTTCTCACACCTGCACATCCACCCACACCCCTCACCACCCACACACCTTCCCATCCCTCCAGTCCCTCA
CCTCCCGCCACCTCCAGCTCTCTTTAAGAGTGAGCCTTTAAATCATAGAGGCCAGAGTGAGGACAACCTTTCTGCG
GCACCTGGCAGAGAAGAACAGTTCAGCACAGCATCATTAACATCCGTCTCCTTAGTGTGTTCTCCAGGAGACACG
TCCCCATGTGTGAGCGTGCACAGAGGGAGTCGGTGAGCATTTCCTTAGTTCTCAGACTCTCCTCCGCTCTACCA
AGAGCTTCGCCAGTGTCACTGAATCAACAGATCCAAGGGAATGAACAAGAAGACTACCTTGAGCTCACAGAGGGA
CTGTCACTCTAAACCAGGGGAACCACTGAACTAAAGCCCAATTTGCTTGCAATTTCTGATGACTTTTATAAGTTTC
AAATACTCAGACTTGTGGAATTTTATAATTTTATATCAGCTGATGAGGTATGCTTGCTTTTATATCCCAGACTTC
TCCTCAAAGAGGGGATAGGCCTGGTTTCTTTGTAATAATCGGGAAGGCTGTGAGATTAATCCAGAGCATTAAAT
GTATCACTGTGTATGGTAAGGAATTTCTTTTCAGCTTTTGGTGCCAGCTACAGAGTTGAGCTGGCCATGTTTCACA
GTATATCAAGCATTATAGAGAAAAGACAGAAATTTTCTTCTTTGTGTAGCTCTCCTAACGCACTCTTTATTTTACT
ACAGAAATTATTTTAGAGTTTTTGTATAGACTTCTTTGGTAGTCTGTTTCTAAAATGAAATGTATTTCAATAAGC
AGTGTAATTTTTTTCAGTGAGCTGAACCTATGTTGTAAATAGAAAAAATTTTTTATAATCATCAAAATGTGATT
CTTAAAGATGCATATAACTTCTATAATTCAAAGCTATTCTTACATCCGTACAACCTCAAAGGTGCTTCAGAGACT
AGATGTATCTGAGAGGGTCTCCAGACCAGGTTACTGCAAAAATGAGGTTTTGCTTTTCAGGATTGGCGTAAATAC
TTGGTAGTTTTGACATCTCTGCTTAACACTCAAGAGAGGCTCCCTAATGTGCTCCTGTCTCCATGTTCTGCTTG
GCTTCGTTAGTGCATTACATGAAATGATTTGCAGGGGATGGGGCCTTTTCAGGGAAGTCACCTAAAGCTTGCA
GTTTTGAAAATTTGAATAAGGCTGTTTGCTGACAGGAGGAGGAAGTAGTGAGATCATTTCATCTCAGTCACGTC
TGTTTCTCACTTCCCTTAGGAATTGTGTTGATGTTTAACTTTTATGGGATGACAAATTGAAATCGCTCATTTTGA
GGTTGCTTTATTTTCTAGAATTGTTATAAGAAGCTAAAATAGTAACTTAAAATCACAAACATGACATTGCTGA
TAGTGGCTGAGAAATTCAGATGAGAAGACAAATTGGTTATGAATTTTGAATATCTATTATATGTAATGTGGA
TATGTTTACAACCTTGAGCTATTTTAAACACAGTTTAAATATAGTGAGGGAAAACCTCTAAGTTTTACTGCCCTGT
CCTCTGCAAATTATGTAATACCAGCATTCTTAGGCGATAAAGAGAGCAGCACCTCTAGTACCTTTAGGCAGATTA

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FIGURE 545B

CTTTTTCAAGTTTGGGGAACCTTCAAAAGACCATAATCAACCAGGAGCTTATTATAGGAAAGGCTGAACAGAAGGG
CTAGTGTATTGATTACACTTAACAGATCATATTTATCCAGACTCAGTATAGCTTAAAATTTTGTATTTCTTTATC
TGAGAGAACTGAGTTCCCAGGCTAAATCACTTACCTCCCACCCCCTCTCCAATTTTTTTTTTAAGAGACAAGGTC
TTGCTATGTTGCCAGGCTAGAGTGCAGTGGCTATTACAGGTGCAGTTATAGCACACTACAGCCTCCAACCTTT
GGGTTCAAGCAACCCTGCCTCAGCTAACCAAGTAGCTGGGACTACAGGTGCATGCTACCATGCCCAGTCCATTTT
TTAATCCTTGAAATTTCTTCATTTTTCTTTCTTCGGTTTTCTTAAAATCTTTGCCTGAATCAGAACGCTGGCTTTTA
TTTATTTTTTTTATTTTTAATATTAAATGTGCAGATATGCTTCGAGCACTTTTCTAACTAATGAGCTCTGTGGTAA
GAAAAATGAACTCTTTCAATTGAGATTAAAGTCCATATTTTTTCAAACATCACGTTCTCTATTGGCTTTTTGGTTT
AGTGTCTTCTAAATTTTCTCCTTCTGATTTTGCCTGTCTTATATAATGAGCATAGGAAAATTTTGGAAATGAGGCAG
AAAAGTATATCAAGACATACTTCCTGGTTTTGGATGTAAGTTTTTAAAGAATGGTATTTTTAATATTTGTACACAT
TCTTTGAGCACCCAGGTACCCAAGCCAATAAGGAAAGTTAATTCCTTGCAATATGACTGTTATATCTTTAGTGGTT
GTCTCCCTCTCCCTCCACAGTCTCCTTGGCATTCCATGACAAGTTTTGTCAACCTACACTTTTATATAGACATGTC
ATTATTTTCATGGTCAAGCCTGTAGTATTAAAATGATTTTTTTTTTAAAGATGTAAACTGTGCTTAGTTAATTGGTTA
TATTTTGTTCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCAGAGTCTTGTTCTGTTGCCCTGGGCTGGAGTG
CAGTGGCGTGATCTTGGCTCACTGCAACCCCGCCCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGT
AGCTGGAATTACAGGCATGCGCCAGCACGCCCGGCTAAGTTTTGTATTTTTTGGCAGAGATGGGGTTTCACCATAT
TGGCCAGGCTGGTCTCAAACCTCCTGACCTTGTGATCCGCCACCTCAGCCTCCGAAAGTGCTGGGATTACAGGCG
TGAGCCACCACGTCCAACCTGCCTTATTTTGTCTGAATAAATTTACAGTATTGGGCAGCAATTCTGGATTCTAGA
CTTGAGACCACAGAATCAACCATTTTCATGAGGTTGTACTGTAATTATACACTGGAATATTTCAGGTAGTCATCTTT
GATTTTTTCATTCAAGTAAATATAGCCATAAGAAAATATCTGCTATACAGGAAAACCAGTATTAAGCAAATACCAC
CATCCTTAACAGAAACAAAAATATATATATATATATATTTTTTAAAAATTAGCATTGTCATACAGTACAATTCTTAG
TGAAGTGTATTGTGGAACAATTTAGAACTTCCTTTTTTTCCCTAGATTAAGGATACTTTCCTTGACTTGAGAC
TTGTGGTCTTCAGGAAAACCTACTCAGAATATAATGACTCCTCATCAGTATCATATTGTATATAAATAATGAAATG
CATTAAAGAATATTCAACAACATTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCGCTCCAG
CCTGGGCAACAGAGCGAGACTCCATCTC

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FIGURE 546

MSHTASSCQELVENCAVHVAGMAQEDSRRGQVPSSFYHGANQELDLSTKVYKRESGSPYSVLVDTKMSKPHLHET
EEQPYFRETRAVSDVHAVKEDRENSDDTEEEEEEVSYSKREQIIVEVNLNNQTLNVSKEGKGVSSQSKETPVLKTS
SEEEEESEEEATDDSDYGENEKQKKKEKIVEKVSVTQRRTRRAASVAAATTSPTRTTGRRKSVPEPPKRKKR
ATKEPKAPVQKAKCEEKETLTCEKCPRVFNTRWYLEKHMNVTHRRMQICDKCGKKFVLESELSLHQQTDCENIQ
NKSFKKLWSLHEHIKIVHGYAEKKFSCEICEKKFYTMAHVRKHMVAHTKDMPFTCETCGKSFKRSMSLKVH
SGEKPFRCECNDERFQYKYQLRSHMSIHIGHKQFMCQWCGKDFNMKQYFDEHMKHTHTGEKPFICEICGKSF
PNMKRHRRTHTGEKPYPCDVCGQRFRFSNMLKAHKEKCFRVTSPVNVPPAVQIPLTTSPATPVPSVVNTATT
PPIPINMNPVSTLPPRPIPHFFSHLHIHPHPHHPHLP IPPVPHLPPPPALFKSEPLNHRGQSEDNFLRLHAEKN
AQHH

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FIGURE 547

CAAGAGATGATATTTATACATTGCAGATCAATCCTGATTCTGCAGTTAATCCGGAACATTTATCCTATTTCCACT
TTGTTGGACGAATAATGGGAATGGCTGTGTTTCATGGACATTATATTGATGGTGGTTTCACATTGCCTTTTTATA
AGCAATTGCTTGGGAAGTCAATTACCTTGGATGACATGGAGTTAGTAGATCCGGATCTTCACAACAGTTTAGTGT
GGATACTTGAGAATGATATTACAGGTGTTTTGGACCATAACCTTCTGTGTTGAACATAATGCATATGGTGAAATTA
TTCAGCATGAACTTAAACCAAATGGCAAAAGTATCCCTGTTAATGAAGAAAATAAAAAAGAATATGTCAGGCTCT
ATGTGAACTGGAGATTTTTACGAGGCATTGAGGCTCAATTCTTGGCTCTGCAGAAAGGATTTAATGAAGTAATTC
CACAACATCTGCTGAAGACATTTGATGAGAAGGAGTTAGAGCTCATTATTTGTGGACTTGGAAAGATAGATGTTA
ATGACTGGAAGGTAAACACCCGGTTAAACACTGTACACCAGACAGCAACATTGTCAAATGGTTCTGGAAAGCTG
TGGAGTTTTTTGATGAAGAGCGACGAGCAAGATTGCTTCAGTTTGTGACAGGATCCTCTCGAGTGCCTCTGCAGG
GCTTCAAAGCATTGCAAGGTGCTGCAGGCCCGAGACTCTTTACCATACACCAGATTGATGCCTGCACTAACAACC
TGCCGAAAGCCCACACTTGCTTCAATCGAATAGACATTCCACCCTATGAAAGCTATGAAAAGCTATATGAAAAGC
TGCTAACAGCCATTGAAGAAACATGTGGATTTGCTGTGGAATGACAAGCTTCAAGGATTTACCCAGGACTCTATT
TATACAACCCTGACTGACAGCCTCCTTTTACAGCAGAGTTTCAAAGAATATGCTGAAATACAGGAAAACACTCCCCC
CCCCCCCCTTTTTTTTTTTTTTTTTTTTTACATTTTAGGACACTGTGAGGGGAAAGGACAATTTTGAAATTCCTTTTC
AAGGAAAAAAAAGGTCTTTATGCTTTGCCATGAGGCCACATTCAGCTGCTATTTAACTTAATATCTTGAACCTA
AAGAATGCTGACTTTTCCTACATTTCCAGAGTTAGGCAGTATTCTACACTTAAAGACTACTACTATTTTTATAAA
AGGTAATCTATTCAAATTTCTTCACAGATTTCAAGTCTCTCAAACATCAAGACAACCTTCAGCAGTCGGTACAAGT
CACATTTTCAATTTGATTGAATACATGATCTTGAACAGCTCCTGTACTTGCTCTTTGTAAAAAAAATAAAATTAT
TTTGAATTATTCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 548

AAAGGACCGAGGCGTGCAGCGGACAGCAGATGGATCCCGCGGCCAGCAGCTGCATGAGGAGCCTCCAGCCCCCAG
CCCCGTCTGTTGGGCTGCCTTCGAAACCCCCACTCGGAAGGCAATGGGGCCTCAGGGCTACCCCACTACCCGCCCA
CCCCGTTCTCCTTCCACCAGAAACCAGACTTCTTGGCGACAGCGACGGCAGCGTACCCTGACTTCTCAGCCTCCT
GCCTGGCAGCCACCCACACAGCCTGCCCCAGGAGGAGCACATCTTCACTGAGCAGCACCCTGCTTCCACAGT
CCCCCAACTGGCACTTCCCTGTCTCAGACGCCCGGGCGCAGGCCCAACTCAGGCCCGGCAGGGGGTTCCAAGGAAA
TGGGGACCAGCAGCCTGGGCTGGTGGACACCACAGGAGGCCAGGCGATGACTACGGGGTGCTTGGGAGCACTG
CCAATGAGACAGAGAAGAAATCATCCAGGCGGAGAAAGGAGAGTTTCAAGTCAAGTGTGGTTCCAGAACCAGG
ATGAAGTGGAAGCGTGTGAAGGGAGGTGAGCCCATCTCCCCCAATGGGCAGGACCCCTGAGGATGGGGACTCCACA
GCCTCTCCAAGTTTCAAGTGTGATTCTGCATGGAGGAAAAATGACTAAGGACTGAGCCCCCTACCCAATACCCC
CACCCCAATCCACCTTACCCCTCTTCCCTTCCCCAGCCAGGGCAGCCTCTCCACATCTTCCCTGACTCTTGGAT
ATGAAACTGCCCAGCATTCTGGGAGTCTTAGGATTTTCTAGGAAGTTCTGTCCAGCCTCTTAGCAGCCTCTTCC
CTAGGGCCTTTGCTCCCACACTCTCATGGAATCAGACAGAGATCCTACCGGGCCGGATGAATCTGGAAACAGCTT
CAGAGATACTGCTTCTCAGCGTCTCTTGGCTGCCACCCATGCCTCCTCCTACCGCTGTTCTCCTAGGTGAGCCAG
GCCTCCTCCTGGTCTGGACACCACCTGGCCTGGTGGGAGAGGAGCTTTGGAACCAGCTGGCGACTCGGAAAGTAA
ATGCTTCAAAAGGAAGGAAATGACAGAGACACACGCCCTTGCCCACCTTCTCTGTAGGCTGCACATCTGAGGCT
TTGGGGCCCCCTTAGTTGTCCCAGAAACCCCAAGAAAAATCAGAATGAGGAGAGTCAAGGACAGCAACTCAGCTGCT
GCAAGCCAGAAACACATCCCTGTCTCCAAATTTGTTGGCTAAGTGGAGACACTTCTGAGAACTGACTAGAGAAGA
CAGAAAAATAGCCCGATGTAGGTTTTCGGTGTCCCATATAGGCCCGTCCACACAGGCTTACTGGGTGGACAAGA
ATGAACCCATGACAGCACCTGCTGCTTCAAAATCAAAATCAATTTAGGGATACAGCAGGGGCTGTTGGGCTGTGC
TCCAGAGAAAAGGAGCAGCTACTCCTTTTAAATCCACGATTTCTGGATTGAAAACCTGTCCAGATGCTGAGTTGT
TGGGCTGAACAACTAGGAGCTGAAAACAACGTAGAGGCTGGAAGTGTCCCTGCATTCTGGAGGGGAGGGGAGA
TAATAAGGAGGGCTGCTGGGTGAGGGCCTGGAGATGTGGAACCTGGAGTGAAGGTTCTCCAGTGACAGTGTCC
TGTGACTGCAAAAGGGGACAAGAAAAATCCCTCTTCTCCATGGGATGGATTTAAGCTCTTGTGTGTGTTCTACA
AATGCTGTTATTGTGGGAGGAAATGCTAGGTTTTTGTGTGTGGACTGCCAGACCTCAGCCAGGTCTTCTGGAGA
TGACATTTGAGGACTGATGGCCAAAGAGCATGGGGGACTGAAGCCCTGGCTGCCTCAGCGCTCTGTCTCCCAACA
CCAGCTGGTGTGTCAGAGGGAGGTCAACGTGAGTTTGGATCTCTTGTACGCAGATGTAATCATTACATGTAAAA
ATAACCCACCTCCCCACCCCAAAAAAGGGCAAGAGCTGTGGAAAATGATTGCCAAATGAGATGGCTGGTTAGAGC
ATGATTTTTTCTAAAGCATACTTCATATATTTTTCTTAAGATTACATCAAGCTAATTGTGCGAGCTCAATTCATT
TGTAAGAAAACCTCTCGGAGAAATAAAATCAATAAAAAGCCAAAAAAAATAAG

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FIGURE 549

MDPAASSCMRSLQFFAPVWGCLRNPHEGNGASGLPHYPTTFSFHQKPDFLATATAAYPDFSASCLAATPHSLP
QEEHIFTEQHFAFPQSPNWHFPVSDARRRPNSGPAGGSKEMGTSSLGLVDTTGGPGDDYGVLGSTANETEEKSSR
RRKESSGQSVVPEPKDEVEACEGRSAHLPQWAGP

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FIGURE 550

GGCACGAGGAGCGTTTCGTTTGGACTTCTCGACTTGAGTGCCCGCCTCCTTCGCCGCCGCCCTCTGCAGTCCTCAG
CGCAGTTATGCCCAGTTCTTCCCGCTGTGGGGACACGACCACGGAGGAATCCTTGCTTCAGGGACTCGGGACCCCT
GCTGGACCCCTTTCCTCGGGTTTAGGGGATGTGGGGACCAGGAGAAAGTCAGGATCCCTAAGAGTCTTCCCTGCCT
GGATGGATGAGTGGCTTCTTCTCCACCTAGATTCTTTCCACAGGAGCCAGCATACTTCTGAACATGGAGAGTGT
TGTTGCCCGCTGCCCATTTCTTATCCCGAGTCCCCCAGGCCTTCTGCAGAAAGCAGGCAAATCTCTGTTGTTCTA
TGCCCAAACTGCCCAAGATGATGGAAGTTGGGGCCAAGCCAGCCCCCTCGGGCATTGTCCACTGCAGCAGTACA
CTACCAACAGATCAAAGAAACCCCTCCGGCCAGTGAGAAAGACAAAAGTCTAAGGCCAAGGTCCAACAGACTCC
TGATGGATCCCAGCAGAGTCCAGATGGCACACAGCTTCCGTCTGGACACCCCTTGCCCTGCCACAAGCCAGGGCAC
TGCAAGCAAATGCCCTTTTCTGGCAGCACAGATGAATCAGAGAGGCAGCAGTGTCTTCTGCAAAGCCAGTCTTGA
GCTTCAGGAGGATGTGCAGGAAATGAATGCCGTGAGGAAAGAGGTTGCTGAAACCTCAGCAGGCCCCAGTGTGGT
TAGTGTGAAAACCGATGGAGGGGATCCAGTGGACTGCTGAAGAACTTCCAGGACATTATGAAAAGCAAAGACC
AGAAAGAGTGTCTCATCTTCTTCAAGATAACTTGCCAAAATCTGTTTCCACTTTTTCAGTATGATCGTTTCTTTGA
GAAAAAAATTGATGAGAAAAAGAATGACCACACCTATCGAGTTTTTAAACTGTGAACCGGCGAGCACACATCTT
CCCCATGGCAGATGACTATTCAGACTCCCTCATCACCAAAAGCAAGTGTGAGTCTGGTGCAGTAATGACTACCT
AGGAATGAGTCGCCACCCACGGGTGTGTGGGGCAGTTATGGACACTTTGAAACAACATGGTGTGTTGGGGCAGGTGG
TACTAGAAATATTTCTGGAAGTAGTAAATTCATGTGGACTTAGAGCGGGAGCTGGCAGACCTCCATGGGAAAGA
TGCCGCACTCTTGTTTTCTCGTGCTTTGTGGCCAATGACTCAACCCTCTTCACCCTGGCTAAGATGATGCCAGG
CTGTGAGATTTACTCTGATTCTGGGAACCATGCCTCCATGATCCAAGGGATTGCAAACAGCCGAGTGCCAAAGTA
CATCTTCCGCCACAATGATGTCAGCCACCTCAGAGAAGTGTGCAAAGATCTGACCCCTCAGTCCCCAAGATTGT
GGCATTGAAACTGTCCATTCAATGGATGGGGCGGTGTGCCCACTGGAAGAGCTGTGTGATGTGGCCCATGAGTT
TGGAGCAATCACCTTCGTGGATGAGGTCCACGCAGTGGGGCTTTATGGGGCTCGAGGCGGAGGGATTGGGGATCG
GGATGGAGTCATGCCAAAAATGGACATCATTTCTGGAACACTTGCAAAGCCTTTGGTTGTGTTGGAGGGTACAT
CGCCAGCACGAGTTCTCTGATTGACACCGTACGGTCCTATGCTGCTGGCTTCATCTTCACCACCTCTCTGCCACC
CATGCTGCTGGCTGGAGCCCTGGAGTCTGTGCGGATCCTGAAGAGCGCTGAGGGACGGGTGCTTCGCCGCCAGCA
CCAGCGCAACGTCAAACCTCATGAGACAGATGCTAATGGATGCCGGCCTCCCTGTTGTCCACTGCCCCAGCCACAT
CATCCCTGTGCGGGTTGCAGATGCTGCTAAAAACACAGAAGTCTGTGATGAACTAATGAGCAGACATAACATCTA
CGTGCAAGCAATCAATTACCCCTACGGTGCCCCGGGGAGAAGAGCTCCTACGGATTGCCCCCACCCTCACCACAC
ACCCAGATGATGAACTACTTCTTGAGAATCTGCTAGTCACATGGAAGCAAGTGGGGCTGGAAGTGAAGCCTCA
TTCTCAGCTGAGTGCAACTTCTGCAGGAGGCCACTGCATTTTGAAGTGTGAGTGAAAGAGAGAAGTCCTATTT
CTCAGGCTTGAGCAAGTTGGTATCTGCTCAGGCCTGAGCATGACCTCAATTATTTCACTTAACCCAGGCCATTA
TCATATCCAGATGGTCTTCAGAGTTGTCTTTATATGTGAATTAAGTTATATTAAATTTTAATCTATAGTAAAAAC
ATAGTCCTGGAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 551

MESVVRRCPFLSRVPAFLQKAGKSLLFYAQNCPKMMEVGAKPAPRALSTAAPHYQQIKETPPASEKDKTAKAKV
QQTPDGSQQSPDGTQLPSGHPLPATSQGTASKCPFLAAQMNQRGSSVFCASLELQEDVQEMNAVRKEVAETSAG
PSVVSVKTDGGDPSGLLKNFQDIMQKQRPERSHLLQDNLPKSVSTFYDRFFEKKIDEKKNDHTYRVFKTVNRR
AHIFPMADDYSDSLITKKQVSVWCSNDYLGMSRHPRVCGAVMDTLKQHGAGAGGTRNISGTSKFHVDLERELADL
HGKDAALLFSSCFVANDSTLFTLAKMMPGCEIYSDSGNHASMIQGI RNSRVPKYIFRHNDVSHLRELLQRS DPSV
PKIVAFETVHSMDGAVCPLEELCDVAHEFGAITFVDEVHAVGLYGARGGGIGDRDGVMPKMDIISGTLGKAFCV
GGYIASTSSLIDTVRSYAAGFI FTSLPPMLLAGALESVRILKSAEGRVLRQHQ RNVKLMRQMLMDAGLPV VHC
PSHIIPVRVADAAKNTEVCDELMSRHNIYVQAINYPTVPRGEELLRIAPTPHHTPQMMNYFLENLLVTWKQVGLE
LKPHSSAECNFCRRPLHFEVMSEREKSYFSGLSKLVSAQA

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FIGURE 552

AGCCTACGCACGAAAGTGACTAGGGAGGAAGGATATTATAAAGTGATGCAAACAGAAATTCCACCAGCCTCCATG
TATCATCATGTGTCATAACTCAGTCAAGCTCAGTGAGCATTCTCAGCACATTGCCTCAACAGCTTCAAGGTGAGC
CAGCTCAAGACTTTGCTCTCCACCAGGCAGAAGATGACAGACTGTGAATTTGGATATATTTACAGGCTGGCTCAG
GACTATCTGCAGTGCCTCTACAGATACCACAACCTGGATCAGGTCCAAGCAAACGTCCAGAGTGCTACAAAAT
TTCGTTCTCAGTCCAAAAAGAAGTGAAAAAGAATCTGAAGTCATGCTTGGACAATGTTAATGTTGTGTCCGTA
CTGCCAGAACACTATTCAACCAAGTGATGAAAAAGGAGTTTGAAGACGGCATCATTAACTGGGGAAGAATT
AACCATATTTGCATTTGAAGGTATTCTCATCAAGAACTTCTACGACAGCAAATTGCCCGGATGTGGATACC
ATAAGGAGATTTTATATTTTGTGCGGAGTTCATAATGAATAACACAGGAGAATGGATAAGGCAAAACGGAGGC
TGAAAAATGGCTTTGTAAAGAAGTTTGAACCTAAATCTGGCTGGATGACTTTTCTAGAAGTTACAGGAAAGATC
GAAATGCTATCTCTCTGAAGCAATACTGTTGACCAGAAAGGACACTCCATATTGTGAAACCGGCCTAATTT
TGACTGATATGGAAACGATTGCCAACACATACTTCTACTTTTAAATAAACTTTGATGATGTAACCTTGAC
CCAGAGTTATGGAAATTTTGTCCCATGTAATGAATAAATTGTATGTATTTTCTCT

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FIGURE 553

MTDCEFGYIYRLAQDYLCVLQIPQPGSGPSKTSRVLQNVAFSVQKEVEKNLKSCLDNVNVVSVDTARTLFNQVM
EKEFEDGIINWGRIVTIFAFEGILIKLLRQQIAPDVDTYKEISYFVAEFIMNNTGEWIRQNGGWENG FVKKFEP
KSGWMTFLEVTGKICEMLSLLKQYC

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FIGURE 554

GAATTCCTGAGGCGGGAGACCGGTGGTCTGCACCGTCCTGGAGGGAGATATGAGTGGCTGGACTCTCAGCCAGC
CACTGGGATGTGTTTCGGGCTTTGGACCTTGAGGCCGGAGAGAGCTCCCGAGAGGAGGCGGCGCACGTTCTGTTCTT
CTGAGGGGACGGTAGATTTGGGGGTTTTTCCTCTAGGATTCTCGCGCCGTTTCCTCTGAAGAAACAGAACCAGAG
AGGGAAGGTGACCTGAAAGTCACTGAATAATTTTTTTAGAGCTGAACAAGAATCCAAGCCTGCAACTGCAACTGC
AGAGACGAGAGATCTTTCTGCTGTCTATACTCTTGAAAGCACATCCTAAGATCTTTGCAGATTATCTGTGGAAG
GAGAATGCCTAAAGTCAAACGAAGCCGGAAAGCACCCAGGATGGCTGGGAGTTGATTGAGCCAACACTGGATCA
ATTAGATCAAAGATGAGAGAAGCTGAAACAGAACCGCATGAGGGAAAGAGGAAAGTGAATCTCTGTGGCCCAT
CTTCAGGATCCACCACCAGAAAACCCGCTACATCTTCGACCTCTTTTACAAGCGGAAAGCCTACAGCAGAGAACT
CTTAGATATATGTTATAAAGAAGGCTTAGCAGACAAAAACCTGTTGGCAAAATGGAAAAAGCAAGGTATAGGAAA
CTTGCTGCTGCCTGCGGTGCATTTCAGACACGGGACACCAACTTCGGGACGAACTGCATCTGCCGCGTGCCCAAAAG
CAAGCTGGAAGTGGGCCGCATCATCGAGTGCACACACTGTGGCTGCCGTGGCTGCTCTGGCTGACCGGTGGCTGCT
GCTCCACCCTGGACTCTGGACTTCGCAGGTTCTTGCCGTGTCACGCCACCCCTTCCTGGGAGCAGCGAGCAGTG
CCCCAGGCCCGAGTTGGAGCACGGTCTCTATGGGGAAGCGTTCGCTGTCTATCAGCTGTGATTTGTAAAAATAAA
ATCTTTAAATCTCTCGAAAAAAAAAAAAA

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FIGURE 555

MPKVKRSRKAPQDGWELIEPTLDQLDQKMREAETEPHEGKRKVESLWPIFRIHHQKTRYIFDLFYKRKAYSRELL
DICYKEGLADKNLLAKWKKQGIGNLCCCLRCIQTRDTNFGTNCICRVPSKLEVGRIIECTHCGCRGCSG

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FIGURE 556

CCGCCATGGGGTCCCTGTTCCGGAGCGAGACCATGTGCCTGGCGCAGCTCTTCCTGCAGTCGGGCACGGCCTACG
AGTGCCTCAGCGCCCTGGGCGAGAAAGGCCTGGTCCAGTTCCGAGACCTCAACCAGAACGTAAGTTCTTTCCAAA
GAAAATTTGTTGGTGAGGTGAAGAGGTGTGAAGAGCTAGAGCGAATATTGGTGTATTGGTACAGGAAATTAATA
GAGCTGATATTCCCCTTCCTGAAGGAGAGGCCAGCCCTCCTGCGCCACCCCTGAAACAGGTTCTAGAAATGCAGG
AGCAGTTGCAGAAGCTCGAGGTTGAAGTGAAGAGAGTCACTAAGAACAAGGAGAACTGAGGAAAACTTGCTGG
AACTGATAGAGTACACTCACATGCTGAGAGTGACAAAGACCTTTGTGAAACGCAACGTTGAGTTTGAACCCACTT
ATGAAGAATTCCCCTTCCTTAGAGAGCGATTCTTTGTTGGATTACAGCTGTATGCAGAGGCTGGGAGCAAACTGG
GATTTGTGTCTGGCCTAATTAACCAAGGAAAAGTGAAGCATTTGAAAAATGTTGTGGAGAGTCTGCAAAGGGT
ACACCATCGTGTCTATGCAGAACTGGATGAATCCCTTGAAGACCCCTGAAACAGGGGAAGTCATAAAATGGTATG
TCTTTTTAATATCCTTTTGGGGAGAGCAGATTGGCCACAAGGTTAAGAAGATATGTGATTGCTACCACTGCCACG
TGTACCCCTATCCAAACACAGCCGAGGAGCGGAGGGAGATCCAGGAGGGGCTGAACACCCGCATCCAGGATCTCT
ACACTGTACTGCACAAAACCGAGGACTATTTGAGGCAAGTGCTATGTAAAGCCGCGGAGTCTGTCTACAGCCGTG
TGATCCAGGTGAAGAAAATGAAGGCCATCTATCACATGCTGAACATGTGCAGCTTTGACGTGACCAACAAGTGCC
TCATTGCTGAAGTCTGGTGTCCCGAGGCGGATCTGCAGGACCTGCGCCGGGCACTGGAGGAGGGCTCGAGAGAGA
GTGGTGCTACAATCCCCTCATTATGAATATAATCCCCACAAAAGAAACACCCCCCACTCGGATCCGCACCAACA
AATTCACCGAGGGATTTCAAGACATCGTGGATGCTTATGGAGTCGGAAGCTACAGAGAAGTCAATCCAGCTCTCT
TTACCATCATCACCTTCCCGTTTTTATTTGCTGTGATGTTTGGAGACTTCGGACATGGCTTTGTGATGTTTTTAT
TTGCCCTCTTGTGGGTGTTAAATGAAAATCATCCCAGACTAAATCAGTCACAAGAGATCATGAGGATGTTTTTAA
ATGGCCGGTACATCCTCCTGCTGATGGGGCTGTTCTCAGTGTACACTGGCCTCATCTACAACGACTGCTTTTCAA
AGTCAGTCAACCTGTTTCGGCTCTGGGTGGAACGTGTTCGGCCATGTACAGCTCCAGCCACCCACCCGAGAGCATA
AGAAGATGGTGCTTTGGAACGACAGCGTCGTTAGACACAACAGCATTTCAGCTGGATCCAAGCATTCTTGGAG
TGTTCCGAGGCCCTTATCCCCTTGGCATTGATCCTATTTGGAACCTTGGCCACAAATCGCCTCACTTTTTCTAAACT
CTTTCAAATGAAAATGTCCGTGATTTTAGGAATCATTATATGACTTTTGGAGTCATTCTGGGAATATTTAACC
ACTTGCACTTCAGGAAGAAGTTCAACATTTACCTGGTTTCCATCCCGGAACCTTCTCTTCATGCTCTGTATCTTTG
GATACCTTATATTTATGATTTTCTACAAGTGGCTGGTTTTTTTTCAGCAGAAACCTCCAGAGTTGCTCCCAGCATTC
TGATTGAATTTATTAACATGTTTTTATTTCCAGCCAGTAAACAAGTGGCCTTTACACAGGGCAGGAGTATGTCC
AGAGAGTGCTGCTGGTTGTACAGCATTGTCTGTCCCTGTCTCTTCTTGGGAAAGCCACTGTTTTTGTGTGGC
TTCACAATGGGCGTAGTTGCTTCGGGGTGAACCGAGTGGCTACACACTTATAAGGAAAGATAGTGAGGAAGAAG
TTTCATTGCTGGGAAGCCAAGATATAGAAGAGGGGAAATCACCAGGTGGAAGATGGATGTAGAGAAATGGCGTGTG
AAGAGTTTAATTTTGGAGAAATATTAATGACCCAAGTAATCCATTCCATCGAGTACTGTCTGGGATGCATCTCCA
ACACCGCCTCTACCTGAGGCTCTGGGCGCTTAGCCTGGCTCACGCACAGTTGTCTGATGTCTGTGGGCCATGC
TGATGCGCGTGGGCCTCCGCGTTGACACCACCTATGGCGTCTTGCTACTGCTCCCGGTTATCGCGCTCTTTGCAG
TTTTGACCATTTTCATCCTTCTGATCATGGAAGGGCTTTCTGCGTTTCTTCACGCCATACGCTCCACTGGGTAG
AATTTCAGAACAAATTTACGTTGGTGCAGGCACCAATTTGTTCCCTTTCTCATTAGTCTACTTTTCATCAAAGT
TCAATAACGACGACAGTGTGGCATGATCATATTGCTGTAACCAACAAGCTTTAGATTTATGGAGAATGACCATG
TTATAGACTTTCACTTATGTCAGATTTATGATAGGAAAAATTCATCTTCATTACTGCCTTATGACATAGCCAAA
TAATTCTGTAAGATATAC

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FIGURE 557

MGSLFRSETMCLAQLFLQSGTAYECLSAUGEKGLVQFRDLNQNVSSFQRKFVGEVKRCEELERILVYLVQEIINRA
DIPLPEGEASPPAPPLKQVLEMQEQLQKLEVELREVTKNKEKLRKNLLELIEYTHMLRVTKTFVKRNVEFEPTYE
EFPSLESDSLDDYSCMQRLGAKLGFVSGLINQKVEAFEKMLWRVCKGYTIVSYAELDESLEDPETGEVIKWYVF
LISFWGEQIGHKVKKICDCYHCHVYPYPNTAEERREIQEGLNTRIQLDLYTVLHKTEDYLRQVLCKAAESVYSRVI
QVKKMKAIYHMLNMCSFDVTNKCLIAEVWCPEADLQDLRRALEEGSRESGATIPSPMNIIPTKETPPTRIRTNKF
TEGFQNIVDAYGVGSYREVNPAFTIITFPFLFAVMFGDFGHGFVMFLFALLWVLNENHPRLNQSQEIMRMFFNG
RYILLMLGLFSVYTGLIYNDCFSKSVNLFGSGWNVSAMYSSSHPPAEHKKMVLWNDSVVRHNSILQLDPSIPGVF
RGPYPLGIDPIWNLATNRLTFLNSFKMKMSVILGIIHMTFGVILGIFNHLHFRKKFNIYLVSIPELLFMLCIFGY
LIFMIFYKWLVSFSAETSRVAPSILIEFINMFLFPASKTSGLYTGQEVQVRVLLVVTALSVFVFLGKPLFLLWLH
NGRSCFGVNRSGYTLIRKDSEEEVSLGSDIEEGNHQVEDGCREMACEEFNFGIILMTQVIHSIEYCLGCI SNT
ASYLRLWALSLAHAQLSDVLWAMLMRVGLRVDTTYGVLLLLLPVIALFAVLTIFILLIMEGLSAFLHAIRLHWVEF
QNKFYVGAGTKFVPFSFSLSSKFNNDDSA

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FIGURE 558

CTCTCTCTCTATCTCTCTCAGAATGACAATTCTAGGTACAACCTTTTGGCATGGTTTTTTCTTTACTTCAAGTCGT
TTCTGGAGAAAGTGGCTATGCTCAAAATGGAGACTTGGAAAGATGCAGAACTGGATGACTACTCATTCTCATGCTA
TAGCCAGTTGGAAGTGAATGGATCGCAGCATTCACTGACCTGTGCTTTTGAGGACCCAGATGTCAACACCACCAA
TCTGGAATTTGAAATATGTGGGGCCCTCGTGGAGGTAAAGTGCCTGAATTTTCAGGAAACTACAAGAGATATATTT
CTCGAGACAAAGAAATTCTTACTGATTGGAAAGAGCAATATATGTGTGAAGTTGGAGAAAAAGAGTCTAACCTG
CAAAAATAGACCTAACCACTATAGTTAAACCTGAGGCTCCTTTTGACCTGAGTGTCACTATCGGGAAGGAGC
ATGACTTTGTGGTGACATTTAATACATCACACTTGCAAAAGAAGTATGTAAAAGTTTAAATGCATGATGTAGC
TACCGCCAGGAAAAGGATGAAAACAAATGGACGCATGTGAATTTATCCAGCACAAAGCTGACACTCCTGCAGAG
TAGCTCCAACCGGCAGCAATGTATGAGATTAAAGTTCGATCCATCCCTGATCACTATTTTAAAGGCTTCTGGAG
AATGGAGTCCAAGTTATTACTTCAGAACTCCAGAGATCAATAATAGCTCAGGGGAGATGGATCCTATCTTACT
CATCAGCATTTTGTAGTTTTTTCTCTGTGCTCTGTTGGTCATCTTGGCCTGTGTGTTATGGAAAAAAGGAT
AGCCTATCGTATGGCCCAGTCTCCCCGATCATAAGAAGACTCTGGAACATCTTTGTAAGAAACCAAGAAAAA
TAAATGTGAGTTTCAATCCTGAAAGTTTCCTGGACTGCCAGATTCATAGGGTGGATGACATTCAAGCTAGAGA
GAAGTGAAGTTTTCTGCAAGATACGTTTCCTCAGCAACTAGAAGAATCTGAGAAGCAGAGGCTTGGAGGGGA
TGTGCAGAGCCCCAACTGCCCATCTGAGGATGTAGTCGTCCTCCAGAAAGCTTTGGAAGAGATTATCCCTCAC
AIGCCTGGCTGGGAATGTGAGTGATGTGACGCCCTATTCTCTCTCTTCCAGGTCCCTAGACTGCAGGGAGAG
TGGCAAGAATGGGCCTCATGTGTACCAGGACCTCCTGCTTAGCCTTGGGACTACAAACAGCACGCTGCCCCCTCC
ATTTTCTCTCCAATCTGGAATCCTGACATTGAACCCAGTTGCTCAGGGTCAGCCCATTCTTACTTCCCTGGGATC
AAATCAAGAAGAAGCATATGTACCATGTCCAGCTTCTACCAAAACCAGTGAAGTGTAAGAAACCCAGACTGAAC
TTACCGTGAGCGACAAAGATGATTTAAAAGGGAAGTCTAGAGTTCCCTAGTCTCCCTCACAGCACAGAGAAGACAA
AATTAGCAAAACCCCACTACACAGTCTGCAAGATTCTGAAACATTGCTTTGACCACTCTTCCTGAGTTCAAGTGGC
ACTCAACATGAGTCAAGAGCATCCTGCTTCTACCATGTGGATTTGGTCACAAGGTTTAAGGTGACCCAATGATTC
AGCTATTT

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FIGURE 559

MTILGTTFGMVFSLLQVVSGESGYAQNGDLEDAELDDYSFSCYSQLEVNGSQHSLTCAFEDPDVNTTNLEFEICG
ALVEVKCLNFRKLQEIYFIETKKFLLIGKSNICVKVGEKSLTCKKIDLTITIVKPEAPFDLSVIYREGANDFVVTF
NTSHLQKKYVKVLMHDVAYRQEKDENKWITHVNLSSTKLTLQRLQPAAMYEEKVRSIPDHYFKGFWEWSPSY
FRTPEINNSSGEMDPILLTISILSFFSVALLVILACVLWKKRIKPIVWPSLPDHKKTLEHLCKKPRKNLNVSFNP
ESFLDCQIHRVDDIQARDEVEGFLODTFPQOLEESEKQRLGGDVQSPNCPSEDVVVTPESFGRDSSLTCLAGNVS
ACDAPILSSSRSLDCRESGKNQPHVYQDLLLLSLGTTNSTLPPFSLQSGILTILNPVAQGPILTSLSGNQEEAYV
TMSSFYQNO

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FIGURE 560

ACTCGTCTCTGGTAAAGTCTGAGCAGGACAGGGTGGCTGACTGGCAGATCCAGAGGTTCCCTTGGCAGTCCACGC
CAGGCCCTTCACCATGATCAGTTCCCTGAATCAGTGACAGAAAACCTTTGAGTACGATGATTTGGCTGAGGCCTGT
TATATTGGGGACATCGTGGTCTTTGGGACTGTGTTCCCTGTCCATATTCTACTCCGTCACTCTTTGCCATTGGCCTG
GTGGGAAATTTGTTGGTAGTGTTTGCCCTCACCAACAGCAAGAAGCCCAAGAGTGTACCCGACATTTACCTCCTG
AACCTGGCCTTGTCTGATCTGCTGTTTGTAGCCACTTTGCCCTTCTGGACTCACTATTTGATAAATGAAAAGGGC
CTCCACAATGCCATGTGCAAATTCACCTACCGCCTTCTTCTTCATCGGCTTTTTTGGGAAGCATATTCTTCATCACC
GTCATCAGCATTGATAGGTACCTGGCCATCGTCTGGCCGCCAACTCCATGAACAACCGGACCGTGCAGCATGGC
GTCACCATCAGCCTAGGCGTCTGGGCAGCAGCCATTTGGTGGCAGCACCCAGTTTCATGTTTCAAAAGCAGAAA
GAAAATGAATGCCTTGGTGACTACCCCGAGGTCTCCAGGAAATCTGGCCCGTGTCTCCGCAATGTGGAAACAAAT
TTTCTTGGCTTCCCTACTCCCCCTGCTCATTATGAGTTATTGCTACTTCAGAATCATCCAGACGCTGTTTTCTCTGC
AAGAACCACAAGAAAGCCAAAGCCATTAACTGATCCTTCTGGTGGTCATCGTGTTCCTCTTCTGGACACCC
TACAACGTTATGATTTTCCCTGGAGACGCTTAAGCTCTATGACTTCTTTCCAGTTGTGACATGAGGAAGGATCTG
AGGCTGGCCCTCAGTGTGACTGAGACGGTTGCATTTAGCCATTGTTGCCTGAATCCTCTCATCTATGCATTTGCT
GGGGAGAAGTTTCAAGATACCTTTACCACCTGTATGGGAAATGCCTGGCTGTCTGTGTTGGGCGCTCAGTCCAC
GTTGATTTCTCCTCATCTGAATCACAAAGGAGCAGGCATGGAAGTGTTCTGAGCAGCAATTTTACTTACCACACG
AGTGATGGAGATGCATTGCTCCTTCTCTGAAGGGAATCCCAAAGCCTTGTGTCTACAGAGAACCTGGAGTTCTTG
AACCTGATGCTGACTAGTGAGGAAAGATTTTTGTTGTTATTTCTTACAGGCACAAAATGATGGACCCAATGCACA
CAAAACAACCTTAGAGTGTTGTTGAGAATTGTGCTCAAAATTTGAAGAAATGAACAAATTGAACCTTTTGAATGAC
AAAGAGTAGACATTTCTCTTACTGCAAATGTATCAGAACTTTTTGGTTTGCAGATGACAAAAATTCAACTCAGA
CTAGTTTAGTTAAATGAGGGTGGTGAATATTGTTTCATATTGTGGCACAAGCAAAGGGTGTCTGAGCCCTCAAAG
TGAGGGGAAACCAGGGCCTGAGCCAAGCTAGAATTCCTCTCTCTGACTCTCAAATCTTTTAGTCATTATAGATC
CCCCAGACTTTACATGACACAGCTTTATCACCAGAGAGGGACTGACACCCATGTTTCTCTGGCCCCAAGGGAAAA
TTCCCAGGGAAGTGCTCTGATAGGCCAAGTTGTATCAGGTGCCATCCCTGGAAGGTGCTGTTATCCATGGGGA
AGGGATATATAAGATGGAAGCTTCCAGTCCAATCTCATGGAGAAGCAGAAATACATATTTCCAAGAAGTTGGATG
GGTGGGTACTATTCTGATTACACAAAACAAATGCCACACATCACCTTACCATGTGCCTGATCCAGCCTCTCCCC
TGATTACACCAGCCTCGTCTTCATTAAGCCCTCTTCCATCATGTCCCCAAACCTGCAAGGGCTCCCCACTGCCTA
CTGCATCGAGTCAAACTCAAATGCTTGGCTTCTCATACGTCCACCATGGGGTCTACCAATAGATTCCCCATTG
CCTCCTCCTTCCCAAAGGACTCCACCCATCCTATCAGCCTGTCTCTTCCATATGACCTCATGCATCTCCACCTGC
TCCCAGGCCAGTAAGGGAAATAGAAAAACCTGCCCCCAAATAAGAAGGGATGGATTCCAACCCCAACTCCAGTA
GCTTGGGACAAATCAAGCTTCAGTTTCCCTGGTCTGTAGAAGAGGGATAAGGTACCTTTCACATAGAGATCATCCT
TTCCAGCATGAGGAACTAGCCACCAACTCTTGCAGGTCTCAACCCTTTTGTCTGCCTCTTAGACTTCTGCTTTCC
ACACCTGCACTGCTGTGCTGTGCCCAAGTTGTGGTGTGACAAAGCTTGAAGAGCCTGCAGGTGCCTTGGCCGC
GTGCATAGCCCAGACACAGAAGAGGCTGGTTCTTACGATGGCACCAGTGAGCACTCCCAAGTCTACAGAGTGAT
AGCCTTCCGTAACCCAACTCTCCTGGACTGCCTTGAATATCCCTCCCAGTCACCTTGTGCAAGCCCTGCCCAT
CTGGGAAATACCCCATCATTGCTACTGCCAACCTGGGGAGCCAGGGCTATGGGAGCAGCTTTTTTTTCCCC
CCTAGAAACGTTTGAACAATGTAAACCTTTAAAGCTCGAAAACAATTGTAATAATGCTAAAGAAAAAGTCATCC
AATCTAACACATCAATATTGTCAATCCTGTATTACCCGTCCAGACCTTGTTCACACTCTCACATGTTTAGAGT
TGCAATCGTAATGTACAGATGGTTTTATAATCTGATTTGTTTTCTCTTAAACGTTAGACCACAAATAGTGCTCGC
TTTCTATGTAGTTTGGTAATTATCATTTTTAGAAGACTCTACCAGACTGTGTATTGATTGAAGTCAGATGTGGTAA
CTGTTAAATTGCTGTGTATCTGATAGCTCTTGGCAGTCTATATGTTTGTATAATGAATGAGAGAATAAGTCATG
TTCCTTCAAGATCATGTACCCCAATTTACTTGCCATTACTCAATTGATAAACATTTAACTTGTTTCCAATGTTTA
GCAATACATATTTTATAGAACTTC

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FIGURE 561

MDQFPESVTENFEYDDLAACYIGDIVVFGTVFLSIFYSVIFAIGLVGNLLVVFALTNSKKPKSVTDIYLLNLAL
SDLLFVATLPFWTHYLINEKGLHNAMCKFTTAAFFFIGFFGSIFFITVISIDRYLAIVLAANSMMNNRTVQHGVTS
LGVWAAAILVAAPQFMFTKQKENECLGDYPEVLQEIWPVLRNVETNFLGFLPLLIMSYCYFRI IQTLFSCKNHK
KAKAIKLILLVVIVFFLFWTPYNMIFLETCLKLYDFFPSCDMRKDLRLALSVTETVAFSHCCLNPLIYAFAGEKF
RRYLYHLYGKCLAVLCGRSVHVDSSSESQRSRHGSVLSSNFTYHTSDGDALLL

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FIGURE 562

CTACCCCTTTGTGAGCAGTCTAGGACTTTGTACACCTGTAAAGTAGGGAGAAGGCAGGGGAGGTGGCTGGTTTAA
GGGGAACCTTGAGGGAAGTAGGGAAGACTCCTCTTGGGACCTTTGGAGTAGGTGACACATGAGCCCAGCCCCAGCT
CACCTGCCAATCCAGCTGAGGAGCTCACCTGCCAATCCAGCTGAGGCTGGGCAGAGGTGGGTGAGAAGAGGGAAA
ATTGCAGGGACCTCCAGTTGGGCCAGGCCAGAAGCTGCTGTAGCTTTAACCAGACAGCTCAGACCTGTCTGGAGG
CTGCCAGTGACAGGTTAGGTTTAGGGCAGAGAAGAAGCAAGACCATGGTGGGGAAGATGTGGCCTGTGTTGTGGA
CACTCTGTGCAGTCAGGGTGACCGTCGATGCCATCTCTGTGGAACTCCGCAGGACGTTCTTCGGGCTTCGCAGG
GAAAGAGTGTACCCTGCCCTGCACCTACCACACTTCCACCTCCAGTCGAGAGGGACTTATTCAATGGGATAAGC
TCCTCCTCACTCATACGGAAGGGTGGTCATCTGGCCGTTTTCAAACAAAACTACATCCATGGTGAGCTTTATA
AGAATCGCGTCAGCATATCCAACAATGCTGAGCAGTCCGATGCCTCCATCACCATTGATCAGCTGACCATGGCTG
ACAACGGCACCTACGAGTGTTCTGTCTCGCTGATGTCAGACCTGGAGGGCAACACCAAGTCAGGTGTCCGCTGT
TGGTCTCTCGTGCCACCCTCCAAACCAGAATGCGGCATCGAGGGAGAGACCATAATTGGGAACAACATCCAGCTGA
CCTGCCAATCAAAGGAGGGCTCACCAACCCCTCAGTACAGCTGGAAGAGGTACAACATCCTGAATCAGGAGCAGC
CCCTGGCCCAGCCAGCCTCAGGTCAGCCTGTCTCCCTGAAGAATATCTCCACAGACACATCGGGTTACTACATCT
GTACCTCCAGCAATGAGGAGGGGACGCAGTTCTGCAACATCACGGTGGCCGTCAGATCTCCCTCCATGAACGTGG
CCCTGTATGTGGGCATCGCGGTGGGCGTGGTTGCAGCCCTCATTATCATTGGCATCATCATCTACTGCTGCTGCT
GCCGAGGGAAGGACGACAACACTGAAGACAAGGAGGATGCAAGGCCGAACCGGGAAGCCTATGAGGAGCCACCAG
AGCAGCTAAGAGAACTTTCCAGAGAGAGGGAGGAGGAGGATGACTACAGGCAAGAAGAGCAGAGGAGCACTGGGC
GTGAATCCCCGACCACCTCGACCAGTAGACAGGCCAGCAGCAGAGGGCGGGCGGAGGAAGGGTTAGGGGTTCAATC
TCCCGCTTCTTGGCCTCCCTTCTCCTTTCTAAGCCCTGTTCTCCTGTCCCTCCATCCCAGACATTGATGGGGACA
TTTCTTCCCCAGTGTCAGCTGTGGGGAACATGGCTGGCCTGGTAAGGGGGTCCCTGTGCTGATCCTGCTGACCTC
ACTGTCTGTGAAGTAACCCCTCCTGGCTGTGACACCTGGTGCGGGCCTGGCCCTCACTCAAGACCAGGCTGCAG
CCTCCACTTCCCTCGTAGTTGGCAGGAGCTCCTGGAAGCACAGCGCTGAGCATGGGGCGCTCCCACTCAGAACTC
TCCAGGGAGGCGATGCCAGCCTTGGGGGGTGGGGGCTGTCTGCTCACCTGTGTGCCAGCACCTGGAGGGGCAC
CAGGTGGAGGGTTTGCACTCCACACATCTTTCTTGAATGAATGAAAGAATAAGTGAGTATGCTTGGGCCCTGCAT
TGGCCTGGCCTCCAGCTCCCACTCCCTTTCCAACCTCACTTCCCGTAGCTGCCAGTATGTTCCAACCCCTCCTGG
GAAGGCCACCTCCCACTCCTGCTGCACAGGCCCTGGGGAGCTTTTGCCACACACTTTCCATCTCTGCCTGTCAA
TATCGTACCTGTCCCTCCAGGCCCCTCAAAATCACAAGGATTTCTCTAACCCCTATCCTAATTGTCCACATACGT
GGAAACAATCCTGTTACTCTGTCCCACGTCCAATCATGGGCCACAAGGCACAGTCTTCTGAGCGAGTGCTCTCAC
TGTATTAGAGCGCCAGCTCCTTGGGGCAGGGCCTGGGCCCTCATGGCTTTTGCTTTCCCTGAAGCCCTAGTAGCTG
GCGCCCATCCTAGTGGGCACCTAAGCTTAATTGGGGGAACTGCTTTGATTGGTTGTGCCTTCCCTTCTCTGGTCT
CCTTGAGATGATCGTAGACACAGGGATGATTCCCACCCAAACCCACGTATTCACTCAGTGAGTTAAACACGAATT
GATTTAAAGTGAACACACACAAGGGAGCTTGCTTGCAGATGGTCTGAGTTCTTGTGTCCTGGTAATTCCTCTCCA
GGCCAGAATAATTGGCATGTCTCCTCAACCCACATGGGGTTCTGGTTGTTTCTGTCATCCCGATACCTCAGCCCT
GGCCCTGCCAGCCCATTGGGGCTCTGGTTTTCTGGTGGGGCTGTCTGCTGCCCTCCACAGCCTCCTTCTGTT
TGTCGAGCATTTCTTCTACTCTTGAGAGCTCAGGCAGCGTTAGGGCTGCTTAGGTCTCATGGACCAGTGGCTGGT
CTCACCCAACTGCAGTTTACTATTGCTATCTTTTCTGGATGATCAGAAAAATAATTCCATAAATCTATTGTCTAC
TTGCGATTTTTTAAAAAATGTATATTTTATATATATTGTTAAATCCTTTGCTTCATTCCAAATGCTTTCAGTAA
TAATAAAATTGTGGGTGG

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FIGURE 563

MVGKMWPVLWTLCAVRVTVD AISVETPQDVLRASQGKSVTL PCTYHTSTSSREGLIQWDKLLLTHTERVVIWPF S
NKNYIHGELYKNRV SISNNAEQSDASITIDQLTMADNGTYECSVSLMSDLEGNTKSRVRL LVLP PPSKPECGIEG
ETIIGNNIQLTCQSKEGSPTPQYSWKRYN ILNQEQLAQPASGQP VSLKNISTDTSGYYICTSSNEEGTQFCNIT
VAVRSPSMNVALYVGIAVGVAALIIIGIIYCCCCRGKDDNTEDKEDARPNREAYEEPPEQLRELSREREEEDD
YRQEEQRSTGRES PDHLDQ

[illegible]

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FIGURE 564B

CACTTACTGTAACCTGTTGCTGTGTTTAATTTGACTTCTCTGCCTTTGACATTTAATTTAGTGATCTTAGCATAG
CTTATTATTGAAGGAAGCCAAATTTATCAAAGCATACATGTTTTGGTAGATTAAATATAGATTAGAAAAATTCCT
AAGAATCAGAGTAGAAATAAAAGTGAATGAAAGATTAAACAGATGATGAGAATTTCTAAAAAGATTAGCAAGGTC
ATTTCTTCAGTCAGAAAACTTTAAAAAATATTTATTAAATAAAATCAATTTTTTAGGAAGTTTTCTGTAGTCATTT
ACTAAACATATGATTTCACTAGAAAAGCTGATCATAAGTGAATTTATACCTACCTGTGTGGCTACTCTGAAACAC
ACTGAAAGCTCTGTTGCAATTAGGATTTGATGTGACATAATATTGTTGTATAATTTTCGAGATTTGTAGGAAGGTC
TCATTCTTCCAAGCTGAGAGTCTAGCACTCATTTTCTATAACAGATATGGCAGCTTAGAGGTGTTGGCTTTGTTT
GGATGTAATTTTAGGGGTACTAAAATTTAAAATTTAAAGATAATTGTTCAACAATATCATATCATCACATTGAGC
TGATATAAATTTCTGTGGGTCCGATAATATCTTTGTGATAATTTAAGAGCTAACCAGTTACCACACATCTATGATA
TAACCCTAACACACACAGAAAGCATACATGCAAAAAGAAATGACTAATTAGGGTACATTTATAATTGCATCTAGG
TAATTTTTTACCCTAATGTCTTCATAAAGTACTTGAGTGTAATGTTTGTTACCTCCAACAGAACTAAATGTTCTAT
GGTTATGAAAGAATATATTTATTTAAAGCATTGCTTTTATTTTGAAAAGCTTCTTAATTAATTTGATTAAACAAT
ATGCTAATTTGGGGAAACCTAGAGAAGATAATTGTTGAAATTTTGCAATATAAACATCTCCTAT

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FIGURE 565

MPSEKKISSANDCISFMQAGCELKKVRPNSRIYNRFFTLDTDLQALRWEPSKKDLEKAKLDISAIKEIRLGKNT
TFTNNGLADQICEDCAFSILHGENYESLDLVANSADVANIWVSGRLVSRSKQPLDFMEGNQNTPRFMWLKTVF
EAADVDGNGIMLEDTSVELIKQLNPTLKEAKIRLKFKEIQKSKEKLITRVTEEEFCEAFCELCRPEVYFLLVQI
SKNKEYLDANDLMLFLEAEQGVTHITEDICLDIIRRYELSEEGRQKGFLAIDGFTQYLLSSECDIFDPEQKKVAQ
DMTQPLSHYYINASHNTYLIEDQFRGPADINGYIRALKMGCRSVELDVSDGSDNEPILCNRRNNMTTHVSFRSVIE
VINKFAFVASEYPLILCLGNHCSLPQOKVMAQQMKKVFNGNKLYTEAPLPSESYLPSEKLRMIIVKGKKLPSDP
DVLEGEVTDDEDEEAQMSRRMSVDYNGEQKQIRLCRELSDLVSICKSVQYRDFELSMKSQNYWEMCSFSETEASRI
ANEYPEDFVNYNKKFSLRIYPSAMRIDSSNLNPQDFWNCGCQIVAMNFQTPGPMMDLHTGWFLQNGGCGYVLRPS
IMRDEVSYFSANTKGILPGVSPLALHIKIISGQNFPPKPGACAKGDVIDPYVCIEIHGIPADCSEQRKTKTVQQNS
DNPIFDETFEFQVNLPELAMIRFVVLDDDYIGDEFIGQYTIPFECLQPGYRHVPLRSFVGDIMEHVTLFVHIAIT
NRSGGGKAQKRSLSVRMGKKVREYTMRLNIGLKTIDDIFKIAVHPLREAIMRENMQNAIVSIKELCGLPPIASL
KQCLLTLSRLITSDNTPSVSLVMKDSFPYLEPLGAIPDVQKKMLTAYDLMIQESRFLIEMADTVQEKIVQCQKA
GMEFHHEELHNLGAKEGLKGRKLNKATESFAWNITVLKGQGDLLKNKNEAIENMKQIQACLSCGLSKAPSSSAE
AKSKRSLEAIEEKESSEENGKL

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FIGURE 566

GGCGGTCCCCTGTTCTCCCCGCTCAGGTGCGGCGCTGTGGCAGGAAGCCACCCCTCGGTGCGCCGGTGCGCGGG
GCTGTTGCGCCATCCGCTCCGGCTTTCGTAACCGCACCTGGGACGGCCAGAGACGCTCCAGCGCGAGTTCCTC
AAATGTTTTCTGCGTTGCCAGGACCGTCCGCCGCTCTGAGTCATGTGCGAGTGGGAAGTCGCACTGACACTGAG
CCGGGCCAGAGGGAGAGGAGCCGAGCGCGCGCGGGGCCGAGGGACTCGCAGTGTGTGTAGAGAGCCGGGCTCCT
GCGGATGGGGGTGCCCCGGGGCCTGAGCCCGCTGCCCCGCCACCGCCCCGCCCCGCCCCCTGCCACCCCTGCC
GCCCCGTTCCATTAGCCTGTCCGCCCTCTGCGGGACCATGGAGTGGTAGCCGAGGAGGAAGCATGCTGGCCGTGCG
GCTGCGCGCTGCTGGCTGCCCTGCTGGCCGCGCCGGGAGCGGCGCTGGCCCCAAGGCGCTGCCCTGCGCAGGAGG
TGGCAAGAGGCGTGCTGACCACTCTGCCAGGAGACAGCGTGA CTCTGACCTGCCCCGGGGTAGAGCCGGAAGACA
ATGCCACTGTTCACTGGGTGCTCAGGAAGCCGGCTGCAGGCTCCCACCCAGCAGATGGGCTGGCATGGGAAGGA
GGCTGCTGCTGAGGTGCGGTGCAGCTCCACGACTCTGGAACTATTTCATGCTACCGGGCCGGCCGCCAGCTGGGA
CTGTGCACTTGCTGGTGGATGTTCCCCCGAGGAGCCCCAGCTCTCCTGCTTCCGGAAGAGCCCCCTCAGCAATG
TTGTTTGTGAGTGGGGTCTCTGGAGCACCCCATCCCTGACGACAAAGGCTGTGCTCTTGGTGAGGAAGTTTCAGA
ACAGTCCGGCCGAAGACTTCCAGGAGCCGTGCCAGTATTCCAGGAGTCCCAGAAGTTCTCCTGCCAGTTAGCAG
TCCCGGAGGGAGACAGCTCTTTCTACATAGTGTCCATGTGCGTCCGAGTAGTGTGCGGAGCAAGTTTCAGCAAAA
CTCAAACCTTTCAGGGTTGTGGAATCTTGCAGCCTGATCCGCTGCCAACATCACAGTCACTGCCGTGGCCAGAA
ACCCCGCTGGCTCAGTGTACCTGGCAAGACCCCCACTCCTGGAAGTCACTTTCTACAGACTACGGTTTGAGC
TCAGATATCGGGCTGAACGGTCAAAGACATTACAACATGGATGGTCAAGGACCTCCAGCATCACTGTGTATCC
ACGACGCTTGGAGCGGCTGAGGCACGTGGTGCAGCTTCGTGCCAGGAGGAGTTCGGGCAAGGCGAGTGGAGCG
AGTGGAGCCCCGAGGCCATGGGCACGCCTTGACAGAATCCAGGAGTCTCCAGCTGAGAACGAGGTGTCCACCC
CCATGCAGGCACCTTACTACTAATAAAGACGATGATAATATTCTCTTCAGAGATTCTGCAAATGCGACAAGCCTCC
CAGTGCAAGATTCTTCTTCACTACCACTGCCCCACATTCTGGTTGCTGGAGGGAGCCTGGCCTTCGGAACGCTCC
TCTGCATTGCCATTGTTCTGAGGTTCAAGAAGACGTGGAAGCTGCGGGCTCTGAAGGAAGGCAAGACAAGCATGC
ATCCGCCGTACTCTTTGGGGCAGCTGGTCCCGGAGAGGCCTCGACCCACCCAGTGCTTGTCTCTCATCTCCC
CACCGGTGTCCCCAGCAGCCTGGGGTCTGACAATACCTCGAGCCACAACCGACCAGATGCCAGGGACCCACGGA
GCCCTTATGACATCAGCAATACAGACTACTTCTTCCCCAGATAGCTGGCTGGGTGGCACCAGCAGCCTGGACCCCT
GTGGATGACAAAACACAAACGGGCTCAGCAAAAGATGCTTCTCACTGCCATGCCAGCTTATCTCAGGGGTGTGCG
GCCTTTGGCTTTCAGGAAGAGCCTTGCGGAAGGTTCTACGCCAGGGGAAAATCAGCCTGCTCCAGCTGTTTCACT
GGTTGAGGTTTTCAAACCTCCCTTTCCAAATGCCAGCTTAAAGGGGTTAGAGTGAAGTGGGCCACTGTGAAGAG
AACCATATCAAGACTCTTTGGACACTCACACGGACACTCAAAGCTGGGCAGGTTGGTGGGGGCTCGGTGTGGA
GAAGCGGCTGGCAGCCCCACCCCTCAACACCTCTGCACAAGCTGCACCCTCAGGCAGGTGGGATGGATTTCAGCC
AAAGCCTCCTCCAGCCGCCATGCTCCTGGCCCACTGCATCGTTTTCATCTTCCAACCTCAAACCTCTTAAACCCCAAG
TGCCCTTAGCAAATTCTGTTTTTCTAGGCCTGGGGACGGCTTTTACTTAAACGCCAAGGCTGGGGGAAGAAGCT
CTCTCCTCCCTTTCTTCCCTACAGTTCAAAAACAGCTGAGGGTGAGTGGGTGAATAATACAGTATGTCAGGGCCT
GGTCGTTTTTCAACAGAATTATAATTAGTTCCTCATTAGCAGTTTTGCCTAAATGTGAATGATGATCCTAGGCATT
TGCTGAATACAGAGGCAACTGCATTGGCTTTGGGTTGCAGGACCTCAGGTGAGAAGCAGAGGAAGGAGAGGAGAG
GGGCACAGGGTCTCTACCATCCCTGTAGAGTGGGAGCTGAGTGGGGGATCACAGCCTCTGAAAACCAATGTTCT
CTCTTCTCCACCTCCACAAAGGAGAGCTAGCAGCAGGGAGGGCTTCTGCCATTTCTGAGATCAAAACGGTTTTTA
CTGCAGCTTTGTTTGTGTCAGCTGAACCTGGGTAAGTGGGAAGATAATATTAAGGAAGACAATGTGAAAAGAA
AAATGAGCCTGGCAAGAATGCGTTTAACTTGGTTTTTAAAAAACTGCTGACTGTTTTCTCTTGAGAGGGTGGAA
TATCCAATATTCGCTGTGTCAGCATAGAAGTAAGTACTTAGGTGTGGGGGAAGCACCATAACTTTGTTTAGCCC
AAAACCAAGTCAAGTGAAGGAAGGAGGAAGAGAAAAAATATTTTCTGCCAGGCATGGAGGCCACGCACTTCGGG
AGGTGAGGCAGGAGGATCACTTGAGTCCAGAAGTTTGAGATCAGCCTGGGCAATGTGATAAAACCCCATCTCTA
CAAAAAGCATAAAAATTAGCCAAGTGTGGTAGAGTGTGCTGAAAGTCCAGATACTTGGGGGGCTGAGGTGGGAG
GATCTCTTGAGCCTGGGAGGTCAAGGCTGCAGTGAGCCGAGATTGCACCACTGCACTCCAGCCTGGGGTGACAGA
GCAAGTGAGACCTGTCTC

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FIGURE 567

MLAVGCALLAALLAAPGAALAPRRCPAQEVARGVLTSLPGDSVTLTCPGVEPEDNATVHWVLRKPAAGSHPSRWA
GMGRRLLLRSVQLHDSGNYSYRAGRPAAGTVHLLVDVPPEEPQLSCFRKSPLSNVVCWGPSTPSLTTKAVLLV
RKFQNSPAEDFQEPQYSQESQKFSQQLAVPEGDSSFYIVSMCVASSVGSKFSKTQTFQGCILQPDPPANITVT
AVARNPRWLSVTWQDPHSWNSSFYRLRFELRYRAERSKFTTTWMVKDLQHHCVIHDAWSGLRHVVQLRAQEEFGQ
GEWSEWSPEAMGTPWTESRPPAENEVSTPMQALTNNKDDDNILFRDSANATSLPVQDSSSVPLPTFLVAGGSLA
FGTLLCIAIVLRFKKTWKLRLKEGKTSMHPPYSLGQLVPERPRPTPVLVPLISPPVSPSSLGSDNTSSHNRPDA
RDPRSPYDISNTDYFFPR

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FIGURE 568

CAAGAGAGAGAGAGAGGTGCAAGCCCCAAAGCGAGCGACATGTCCCTTTGGGGAGCAGTCCCTCTGCACCCCAGA
GTGAGGAGGACGCAGGGGTGCTACAGGGCAGGCAGAGGAGGCACCTGTAGGGGGTGGTGGGCTGGTG
GCCCAGGAGAAGTCAGGAAGGGAGCCCAGCTGGTGACAAGAGAGCCCAGAGGTGCCTGGGGCTGAGTGTGAGAGC
CCGGAAGATTTTCAGCCATGCCTCACAGCTCCGACAGCAGTGACTCCAGCTTCAGCCGCTCTCCTCCCCCTGGCAA
ACAGGACTCATCTGATGATGTGAGAAGAGTTCAGAGGAGGGAGAAAAATCGTATTGCCGCCCAGAAGAGCCGACA
GAGGCAGACACAGAAGGCCGACACCCTGCACCTGGAGAGCGAAGACCTGGAGAAACAGAACGCGGCTCTACGCAA
GGAGATCAAGCAGCTCACAGAGGAAGTGAAGTACTTCACGTCGGTGCTGAACAGCCACGAGCCCCCTGTGCTCGGT
GCTGGCCGCCAGCACGCCCTCGCCCCCGAGGTGGTGACAGCGCCACGCATTCCACCAACCTCATGTCAGCTC
CCCGCGCTTCCAGCCCTTGAGCTTCCGATGCGGGGAGAGCAGAGCCTCGGGAGGGGCACACAGACTGTGGCAGAGC
TGCGCCCATCCCGCAGAGGCCCTGTCCACCTGGAGACCCGGAGACAGAGGCCTGGACAAGGAGTGAACACGGGA
ACTGTACGACTGGAAGGGCGTGAGGCCTCCAGCAGTGCCGCAGCGTTTCGAGGGGCGTGCTGGACCCACC
ACTGTGGGTTGCAGGCCCAATGCAGAAGAGTATTAAGAAAGATGCTCAAGTCCCATGGCACAGAGCAAGGCGGGC
AGGGAACGGTTATTTTTCTAAATAAATGCTTTAAAGA

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FIGURE 569

MFHSSDSSDSSF SRSPPPGKDSSDDVRRVQRREKNRIAAQKSQRQTQKADTLHLESEDLEKQNAALRKEIKQL
TEELKYFTSVLNSHEPLCSVLAASTPSPPEVVYSAHAFHQPHVSSPRFQP

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FIGURE 570

CGGAAGGTGTGAGCCGCAAACCCAGCGGAGGGCGGGAAGAAGGAGGAGGCCTCTAGGGTGXTCGGGGGACTGGGG
GCCCCGCCGGCAGAGGTCCCTCGGCCTCCTGACTGACTGACTGCGGCCCTCCGGCCAGGACGCTGGGAGCTGC
CTGCGGGAAGGTGCGGGGAGCGGAGCCATGGCCTCCGGTGCGTATAACCCGTATATAGAGATAATTGAACAACCC
AGGCAGAGGGGAATGCGTTTTAGATACAAATGTGAAGGGCGATCAGCAGGCAGCATTCCAGGGGAGCACAGCACA
GACAACAACCGAACATACCCCTTCTATCCAGATTATGAACATTATGGAAAAGGAAAAGTGAGAATTACATTAGTA
ACAAAGAATGACCCATATAAACCTCATCCTCATGATTTAGTTGGAAAAGACTGCAGAGACGGCTACTATGAAGCA
GAATTTGGACAAGAACGCAGACCTTTGTTTTTCCAAAATTTGGGTATTTCGATGTGTGAAGAAAAAAGAGTAAAA
GAAGCTATTATTACAAGAATAAAGGCAGGAATCAATCCATTCAATGTCCCTGAAAAACAGCTGAATGATATTGAA
GATTGTGACCTCAATGTGGTGAGACTGTGTTTTCAAGTTTTTCTCCCTGATGAACATGGTAATTTGACGACTGCT
CTTCCTCCTGTTGTCTCGAACCCAATTTATGACAACCGTGCTCCAAATACTGCAGAATTAAGGATTTGTCGTGTA
AACAAGAATTGTGGAAGTGTCAGAGGAGGAGATGAAATATTTCTACTTTGTGACAAAGTTCAGAAAGATGACATA
GAAGTTCGTTTTGTGTTGAACGATTGGGAAGCAAAAGGCATCTTTTACAAGCTGATGTACACCGTCAAGTAGCC
ATTGTTTTTCAAACTCCACCATATTGCAAAGCTATCACAGAACCCGTAACAGTAAAAATGCAGTTGCGGAGACCT
TCTGACCAGGAAGTTAGTGAATCTATGGATTTTAGATATCTGCCAGATGAAAAAGATACTTACGGCAATAAAGCA
AAGAAACAAAAGACAACCTCTGCTTTTCCAGAACTGTGCCAGGATCACGTAGAAACAGGGTTTCGCCATGTTGAC
CAGGATGGTCTTGAACCTCTGACATCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGTTAAT
TTTCCTGAGAGACCAAGACCTGGTCTCCTCGGTTCAATTGGAGAAGGAAGATACTTCAAAAAAGAACCAAACTTG
TTTTCTCATGATGCAGTTGTGAGAGAAATGCCTACAGGGGTTTCAAGTCAAGCAGAACTCTACTATCCCTCACCT
GGGCCCATCTCAAGTGGATTGTCACATCATGCCTCAATGGCACCTCTGCCTTCTTCAAGCTGGTCATCAGTGGCC
CACCCACCCACGCTCAGGCAATACAAACCCACTGAGTAGTTTTTCAACAAGGACACTTCCTTCTAATTCGCAA
GGTATCCCACCATTCTTGAGAATACCTGTTGGGAATGATTTAAATGCTTCTAATGCTTGCAATTTACAACAATGCC
GATGACATAGTCGGAATGGAAGCGTCATCCATGCCATCAGCAGATTTATATGGTATTTCTGATCCCAACATGCTG
TCTAATTGTTCTGTGAATATGATGACAACCAGCAGTGACAGCATGGGAGAGACTGATAATCCAAGACTTCTGAGC
ATGAATCTTGAAAACCCCTCATGTAATTCAGTGTTAGACCCAAGAGACTTGAGACAGCTCCATCAGATGTCCTCT
TCCAGTATGTCAGCAGGCGCCAATTCCAATACTACTGTTTTTGTTCACAATCAGATGCATTTGAGGGATCTGAC
TTCAGTTGTGCAGATAACAGCATGATAAATGAGTCGGGACCATCAAACAGTACTAATCCAAACAGTCATGGTTTT
GTTCAAGATAGTCAGTATTCAGGTATTGGCAGTATGCAAAATGAGCAATTGAGTGACTCCTTTCCATATGAATTT
TTTCAAGTATTAACTTGCAAGATTTAAATCCTTTTAAATCTTGATACCACCTATATAGATGCAGCATTTTGTATTT
GTCTAACTGGGGATATAATACTATATTTATACTGTATATATAATACTGACTGAGAATATAATACTGTATTTGAGA
ATATAAAAACTTTTTTCAGGGAAGAAGCATACAACCTTTGGACATAGCGAATACAAAATTGGAAGCTGTCATAAA
AAGACAACCTCAGAGGCCAGGCGCAGGXGCTCACACCTGTAATCCTAGCACTTTGGGAGGCCAAGGCGGGTGGATC
ACTTGAGACCAG

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FIGURE 571

MASGAYNPYIEIIEQPRQRGMFRYKCEGRSAGSIPGEHSTDNNRTYPSIQIMNYYGKGKVRITLVTKNDPYKPH
PHDLVGKDCRDGYEAEFGQERRPLFFQNLGIRCVKKKEVKEAIIIRIKAGINPFNVPEKQLNDIEDCDLNVVRL
CFQVFLPDEHGNLTALPPVVSNIYDNRAPNTAELRICRVNKNCGSVRGGDEIFLLCDKVQKDDIEVRFVLNDW
EAKGIFSQADVHRQVAIVFKTPPYCKAITEPVTVMQLRRPSDQEVSESMDFRYLPDEKDTYGNKAKKQKTLLF
QKLCQDHVETGFRHVDQDGLELLTSGDPPTLASQSAGITVNFPERPRPGLLGSIGEGRYFKKEPNLFSHDAVVRE
MPTGVSSQAESYYPSPGPISSGLSHHAPLPSSSWSSVAHPTPRSGNTNPLSSFSTRTLPSNSQGIPFFLRIP
VGNDLNASNACIYNNADDIVGMEASSMPADLYGISDPNMLSNCSVNMMTTSSDSMGETDNPRLLSMNLENPSCN
SVLDPRDLRQLHQMSSSSMSAGANSNTTVFVSQSDAFEGSDFSCADNSMINESGPSNSTNPNSHGFVQDSQYSGI
GSMQNEQLSDSFPYEFFQV

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FIGURE 572

GGCGCGGGGACGCGGGTTTCTGCCTCAGGCCCTGCCCTGCTCTACTCTGCGCTCTCTGCCCCGCGCCGCCGCCGCC
TCAGCCTCGGCCCTGCGCTGCGCGCCCGGCCCGTGCTGCCATGGCCCTGCCGCCCGCGAAGCCCCGCGAGGCATCA
GAGCCGCTGCGACGGTGACGCCAGCCCGCCGTCCCCCGCGCGATGGAGCCTGGGACGGAAGCGCAGAGCCGACGG
CAGGCGCTGGAGGCCCCGAAGACGCCGAGGAGGCAGAGCACCGCGCGCCGAGCGCAGACCCGAGAGCTTTACCAC
TCCTGAAGGCCCTAAACCCCGTTCCAGATGCTCTGACTGGGCAAGTGCAGTTGAAGAAGATGAAATGAGGACCAG
AGTTAACAAAGAAATGGCAAGATATAAAAGGAACTCCTCATCAATGACTTTGGAAGAGAGAGAAAATCATCATC
AGGAAGTTCTGATTCAAAGGAGTCTATGTCTACTGTGCGGGCTGACTTTGAGACAGATGAAAGTGTCTAATGAG
GAGACAGAAGCAGATCAACTATGGGAAGAACACAATTGCCTACGATCGTTATATTAAAGAAGTCCCAAGACACCT
TCGACAACCTGGCATTTCATCCCAAGACCCCTAATAAATTTAAGAAGTATAGTCGACGTTTCATGGGACCAGCAAAT
CAAACCTCTGGAAGGTGGCTCTGCATTTTTGGGATCCTCCAGCGGAAGAAGGATGTGATTTGCAAGAAATACACCC
TGTAGACCTTGAATCTGCAGAAAGCAGCTCCGAGCCCCAGACCAGCTCTCAGGATGACTTTGATGTGTACTCTGG
CACACCCACCAAGGTGAGACACATGGACAGTCAAGTGGAGGATGAGTTTGATTTGGAAGCTTGTTAACTGAACC
CTTGAGAGACTTCTCAGCCATGAGCTAACTGCCCCCTGGCGGCCAGGAAGAGAAACAGCTCCTCCCCGACTAGGT
GGAAGGCTGGCCAGGCACCAAGCATGTGTGTGCACTTGTACCTGGTGGTTTTCTCTGTTAGCAGTCCATTAGCTCA
TGCTGAATTATTTTTGCCTTACTTTCTTAAGAAACATTAATTTTATGTATAGTGAGTATATTTTGCATGTTTTAA
ATTGTAAATGGAGCTAAGTCCAAGAAAGTACTTGAAGCTCTCTCCAGCGAGCTTAATTGCGTAATCCCTGTTGT
CCTCCAGGGTAAGCTGACACGTCTACATAACTGGTTTTCCACAGGCATCTTCAGTTATTGCTTGTGAGGTGGACT
GTTTTGGATTTAACCATGTAATCCATGGGACCAATTGAGAGTCAGCTACTTTTATAGGCATCAAAGTATTCTCAG
ACACCTTTAATATCTTTATGGAACTTAATTTTTGGCCTTTTATCAATATGTCATAACAGCATTCTGAAGTCAGA
CATTGTAAATTGAGCTATTAACTAATGAGTTTTATGTAAGTTATATGGTCTTAATTTGGTACTTGTAATAGC
ACTAGTTAGACTCTTTAGAATACTCCAAGAGTTAGGGCAGCAGAGTGGAGCGATTTAGAAAGAACATTTTAAAC
AATCAGTTAATTTACCATGTAAAATTGCTGTAAATGATAATGTGTACAGATTTTCTGTTCAAATATTCAATTGTA
AACTTCTTGTTAAGACTGTTACGTTTCTATTGCTTTTGTATGGGATATTGCAAAAATAAAAAGGAAAGAACCCTC
AAAAAAAAAAAAAAAAAAAA

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FIGURE 573

MACRPRSPPRHQSRCDGDASPPSPARWSLGRKRRADGRRWRPEDAEAEHGAERRPESFTTPEGPKPRSRCSDW
ASAVEEDEMTRVKNEMARYKRKLLINDFGREKSSSGSSDSKESMSTVPADFETDESVLMMRQKQINYGKNTIA
YDRYIKEVPRHLRQPGIHPKTPNKFKKYSRRSWDQQIKLWKVALHFWDPPAEEGCDLQEIHPVDLESAESSSEPQ
TSSQDDFDVYSGTPTKVRHMDSQVEDEFDLEACLTEPLRDFSAMS

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FIGURE 574

AAGCGGCAGGAGCAGCGTTGGCACCGGCGAACCATGGCTGGGATTTTCTATTTTCGCCCTATTTTCGTGTCTCTTC
GGGATTTGCGACGCTGTACAGGTTCCAGGGTATACCCCGCGAATGAAGTTACCTTATTGGATTCCAGATCTGTT
CAGGGAGAACTTGGGTGGATAGCAAGCCCTCTGGAAGGAGGGTGGGAGGAAGTGAGTATCATGGATGAAAAAAT
ACACCAATCCGAACCTACCAAGTGTGCAATGTGATGGAACCCAGCCAGAATAACTGGCTACGAAGTATTGGATC
ACCCGAGAAGGGGCTCAGAGGGTGTATATTGAGATTAAATTCACCTTGAGGGACTGCAATAGTCTTCCGGGCGTC
ATGGGGACTTGCAAGGAGACGTTTAACTGTACTACTATGAATCAGACAACGACAAAGAGCGTTTCATCAGAGAG
AACCAGTTTGTCAAAATTGACACCATTTGCTGCTGATGAGAGCTTCACCCAAGTGGACATTGGTGACAGAATCATG
AAGCTGAACACCGAGATCCGGGATGTAGGGCCATTAAAGCAAAAAGGGGTTTTACCTGGCTTTTCAGGATGTGGGG
GCCTGCATCGCCCTGGTATCAGTCCGTGTGTTCTATAAAAAGTGTCCACTCACAGTCCGCAATCTGGCCAGTTT
CCTGACACCATCACAGGGGCTGATACGTCTTCCCTGGTGGAAAGTTCGAGGCTCCTGTGTCAACAACCTCAGAAGAG
AAAGATGTGCCAAAAATGTACTGTGGGGCAGATGGTGAATGGCTGGTACCCATTGGCAACTGCCTATGCAACGCT
GGGCATGAGGAGCGGAGCGGAGAAATGCCAAGCTTGCAAAATTGGATATTACAAGGCTCTCTCCACGGATGCCACC
TGTGCCAAGTGCCCAACCCACAGCTACTCTGTCTGGGAAGGAGCCACCTCGTGACCTGTGACCGAGGCTTTTTTC
AGAGCTGACAACGATGCTGCCTCTATGCCCTGCACCCGCTCCACCATCTGCTCCCTGAACTTGATTTCAAATGTC
AACGAGACATCTGTGAACCTTGGAAATGGAGTAGCCCTCAGAATACAGGTGGCCGCCAGGACATTTCCCTATAATGTG
GTATGCAAGAAATGTGGAGCTGGTGACCCAGCAAGTGCCGACCCCTGTGGAAGTGGGGTCCACTACACCCACAG
CAGAATGGCTTGAAGACCACCAAAGTCTCCATCACTGACCTCCTAGCTCATACCAATTACACCTTTGAAATCTGG
GCTGTGAATGGAGTGTCCAAATATAACCCTAACCAGACCAATCAGTTTCTGTCACTGTGACCACCAACCAAGCA
GCACCATCATCCATTGCTTTGGTCCAGGCTAAAGAAGTCACAAGATACAGTGTGGCACTGGCTTGGCTGGAACCA
GATCGGCCCAATGGGGTAATCCTGGAATATGAAGTCAAGTATTATGAGAAGGATCAGAATGAGCGAAGCTATCGT
ATAGTTCGGACAGCTGCCAGGAACACAGATATCAAAGGCCTGAACCCCTCTCACTTCCTATGTTTTCCACGTGCGA
GCCAGGACAGCAGCTGGCTATGGAGACTTCAGTGAGCCCTTGGAGGTTACAACCAACACAGTGCCTTCCCGGATC
ATTGGAGATGGGGCTAACTCCACAGTCTTCTGGTCTCTGTCTCGGGCAGTGTGGTGTGGTGGTAATTCTCATT
GCAGCTTTTGTATCAGCCGGAGACGGAGTAAATACAGTAAAGCCAAACAAGAAGCGGATGAAGAGAAACATTTG
AATCAAGGTGTAAGAACATATGTGGACCCCTTTACGTACGAAGATCCCAACCAAGCAGTGCAGAGATTTGCCAAA
GAAATTGACGCATCCTGCATTAAGATTGAAAAAGTTATAGGAGTTGGTGAATTTGGTGAGGTATGCAGTGGGCGT
CTCAAAGTGCCCTGGCAAGAGAGAGATCTGTGTGGCTATCAAGACTCTGAAAGCTGGTTATACAGACAAACAGAGG
AGAGACTTCCTGAGTGAGGCCAGCATCATGGGACAGTTTACCATCCGAACATCATTCACTTGGAAAGGCGTGGTC
ACTAAATGTAAACCAGTAATGATCATAACAGAGTACATGGAGAATGGCTCCTTGGATGCATTCTCAGGAAAAAT
GATGGCAGATTTACAGTCATTAGCTGGTGGGCATGCTTCGTGGCATTGGGTCTGGGATGAAGTATTTATCTGAT
ATGAGCTATGTGCATCGTGATCTGGCCGCACGGAACATCCTGGTGAACAGCAACTTGGTCTGCAAAGTGTCTGAT
TTTGGCATGTCCCGAGTGCTTGAGGATGATCCGGAAGCAGCTTACACCACCAGGGGTGGCAAGATTCCTATCCGG
TGGACTGCGCCAGAAGCAATTGCCTATCGTAAATTCACATCAGCAAGTGATGTATGGAGCTATGGAATCGTTATG
TGGGAAGTGATGTCTGACGGGGAGAGGCCCTATTGGGATATGTCCAATCAAGATGTGATTAAAGCCATTGAGGAA
GGCTATCGGTTACCCCTCCAATGGACTGCCCCATTGCGCTCCACCAGCTGATGCTAGACTGCTGGCAGAAGGAG
AGGAGCGACAGGCCTAAATTTGGGCAGATTGTCAACATGTTGGACAAACTCATCCGCAACCCCAACAGCTTGAAG
AGGACAGGGACGGAGAGCTCCAGACCTAACACTGCCTTGTGGATCCAAGCTCCCTGAATTCTCTGCTGTGGTA
TCAGTGGGCGATTGGCTCCAGGCCATTAAAAATGGACCGGTATAAGGATAACTTCACAGCTGCTGGTTATACCACA
CTAGAGGCTGTGGTGACGTGAACCAGGAGGACCTGGCAAGAATTGGTATCACAGCCATCACGCACCAGAATAAG
ATTTTGAGCAGTGTCCAGGCAATGCGAACCCAAATGCAGCAGATGCACGGCAGAATGGTTCCCGTCTGAGCCAGT
ACTGAATAAACTCAAACTCTTGAAATTAGTTTACCTCATCCATGCACTTTAATTGAAGAACTGCACTTTTTTTA
CTTCGTCTTCGCCCTCTGAAATTAAAGAAATG

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FIGURE 575

MAGIFYFALFSCFLGICDAVTGSRVYPANEVTLLDSRSVQGELGWIASPLEGGWEEVSIMDEKNTPIRTYQVCNV
MEPSQNNWLRTDWITREGAQRVYIEIKFTLRDCNSLPGVMGTCKETFNLYYESDNDKERFIRENQFVKIDTIAA
DESFTQVDIGDRIMKLNTEIRDVGPLSKKGFYLAFQDVGACIALVSVRVFYKKCPLTVRNLAQFPDTITGADTSS
IVEVRGSCVNNSEEKDVPKMYCGADGEWLVPIGNCLCNAGHEERSGECQACKIGYYKALSTDATCAKCPPHSYSV
+TSCTCDRGFFRADNDAASMPCTRPPSAPLNLSNVNETSVNLEWSSPQNTGGRQDISYNNVCKKCGAGDPS
QSGVHYTPQQNGLKTTKVSITDLLAHTNYTFEIWAVNGVSKYNPNPDQSVSVTVTTNQAAPSSIALVQAK
YSVALAWLEPDRPNGVILEYEVKYYEKDQNERSYRIVRTAARNTDIKGLNPLTSYVFHVRARTAAGYGDFS
EDEVTTNTVPSRIIGDGANSTVLLVSVSGSVLVILIAAFVISRRRSKYSKAKQEADEEKHLNQGVRTYVDPF
PNQAVREFAKEIDASCIKIEKVIGVGEFGEVCSGRLKVPKGREICVAIKTLKAGYTDKQRRDFLSEASIMG
PNIIHLEGVVTCKPVMII TEYMENGSLDAFLRKNDGRFTVIQLVGMLRGIGSGMKYLSDMSYVHRDLAAR
NSNLVCKVSDFGMSRVLEDDPEAAYTTRGGKIPIRWTAPEAIAYRKFTSASDVWSYGIVMWEVMSYGERPY
QNQDVIKAIIEGYRLPPPMDCPIALHQLMLDCWQKERSDRPKFGQIVNMLDKLIRNPNSLKRTGTSSRPNT
DPSSPEFSAVVSVGDWLQAIKMDRYKDNFTAAGYTTLEAVVHVNQEDLARIGITAITHQNKILSSVQAMRTQ
MHGRMVPV

[illegible]

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FIGURE 576B

TATTTTGCTGAATACTTTTTATAATGTGATGATTATTAAAAAAGCAAAAATTTTGGTCACTTCCAAGCTAGAAGG
AGGAATCAGATACCCTTTAATATTTTTTCCTCGCTCCTTCTGGTATATGCATGTCAGTGCATGATAATTGAGTTT
TCCTTTGTTTTAATAAAACTGTTCTCAGACATTAAGCTAACTAAGAGAAAAATAACTTTGTTGCCAAAAGGTTG
TGCTATCCAGATTTTTTATATGTCTGCATGTTTAAAAAAAAAAGCAACAAAAGAAAATGCACTCTAACTTATG
TGAAGTGAAGAGAAAAAAATCAGGTTTTAAACAGGAAAACCTATGGGGAATGATATTTTTTGAAAGACTTTTGTAT
AAAGTTGAGTACTTAGAAAAAAGACAAACCAGATGTAATATATTTTGTGGATGTTTTATTCTTGGATTTATAG
TACCTTATACTAAGGTTAAAAAAATATGCTTGATATTGTGAAAAGGTGAAATTCCTCACCAACATTTCAATTGCT
CCTTTGTCATATTGTAATGCCAATATAATATAGTTAATGAAAACAGCATTTTTAAAAACCGAAATATTGAAATGG
TGTAATGTTGTACCATTTGCACTGTGAGCAAATGCTAATACAGTAAATATATTGTGTTTGCTGACAATCAAAAA
AAAAAAAAAAAAA

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FIGURE 577

MTGKLAELPVTMSLLNQLPDNLYPEEIPSA LNLFSGSSDSVHYNQMATENVMDIGLTNEKPNPELSYSGSFQ
PAPGNKTVTYLGKFAFDSPSNWCQDNIISLMSAGILGVPPASGALSTQTSTASMVQPPQGDVEAMY PALPPYSNC
GDLYSEPVSFHDPQGNPGLAYSPQDYQSAKPALDSNLFPMIPDYNLYHHPNDMGSIPEHKPFQGMDFIRVNPPPT
TPLETIKAFKDKQIHGFGSLPQPPLTLKPIRPRKYPNRPSKTPLHERPHACPAEGCDRRFSRSDDELTRHLRIHT
GHKPFQCRICMRSFSRSDHLTTHIRHTGKPFACEFCGRKFARSDEKRRHAKIHLKQKEKKAEEKGGAPSASSAP
PVSLAPVVTTCA

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FIGURE 578A

ACCTAAACCTTGCAAGTTCAGGAAGAAACCATCTGCATCCATATTGAAAACCTGACACAATGTATGCAGCAGGC
TCAGTGTGAGTGAACCTGGAGGCTTCTCTACAACATGACCCAAAGGAGCATTGCAGGTCTATTTGCAACCTGAAG
TTTGTGACTCTCCTGGTTGCCTTAAGTTCAGAACTCCCATTCCTGGGAGCTGGAGTACAGCTTCAAGACAATGGG
TATAATGGATTGCTCATTGCAATTAATCCTCAGGTACCTGAGAATCAGAACCTCATCTCAAACATTAAGGAAATG
ATAACTGAAGCTTCATTTTACCTATTTAATGCTACCAAGAGAAGAGTATTTTTCAGAAATATAAAGATTTTAATA
CCTGCCACATGGAAAGCTAATAATAACAGCAAAATAAAACAAGAATCATATGAAAAGGCCAAATGTCATAGTGACT
GACTGGTATGGGGCACATGGAGATGATCCATACACCCTACAATACAGAGGGTGTGGAAAAGAGGGGAAAATACATT
CATTTACACCTAATTTTCTACTGAATGATAACTTAAACAGCTGGCTACGGATCACGAGGCCGAGTGTGTTGTCCAT
GAATGGGCCCACCTCCGTTGGGGTGTGTTTCGATGAGTATAACAATGACAAACCTTTTCTACATAAATGGGGCAAAAT
CAAATTAAGTGACAAGGTGTTTCATCTGACATCACAGGCATTTTTTGTGTGTGAAAAAGGTCTTGGCCCCAAGAA
AACTGTATTATTAGTAAGCTTTTTAAAGAAGGATGCACCTTTATCTACAATAGCACCCAAAATGCAACTGCATCA
ATAATGTTTCATGCAAAGTTTATCTTCTGTGGTTGAATTTTGTAATGCAAGTACCCACAACCAAGAAGCACCAAC
CTACAGAACCAGATGTGCAGCCTCAGAAAGTGCATGGGATGTAATCACAGACTCTGCTGACTTTCACCACAGCTTT
CCCATGAATGGGACTGAGCTTCCACCTCCTCCACATTCTCGCTTGTACAGGCTGGTGACAAAGTGGTCTGTTTA
GTGCTGGATGTGTCCAGCAAGATGGCAGAGGCTGCAGAGCTCCTTCAACTACAACAAGCCGCAGAATTTTATTG
ATGCAGATTGTTGAAATTCATACCTTCGTGGGCATTGCCAGTTTCGACAGCAAAGGAGAGATCAGAGCCCAGCTA
CACCAAATTAACAGCAATGATGATCGAAAGTTGCTGGTTTCATATCTGCCACCCTGTATCAGCTAAAACAGAC
ATCAGCATTGTTTCAGGGCTTAAGAAAGGATTTGAGGTGGTTGAAAACTGAATGGAAAAGCTTATGGCTCTGTG
ATGATATTAGTGACCAGCGGAGATGATAAGCTTCTTGCAATTGCTTACCCACTGTGCTCAGCAGTGGTTCAACA
ATTCACTCCATTGCCCTGGGTTTCATCTGCAGCCCCAAATCTGGAGGAATTATCACGTCTTACAGGAGGTTTAAAG
TTCTTTGTTCCAGATATATCAAACCTCCAATAGCATGATTGATGCTTTCAGTAGAATTTCTCTGGAAGTGGAGAC
ATTTTCCAGCAACATATTAGCTTGAAAGTACAGGTGAAAATGTCAAACCTCACCATCAATTGAAAACACAGTG
ACTGTGGATAATACTGTGGCAACGACACTATGTTTCTAGTTACGTGGCAGGCCAGTGGTCTCTCTGAGATTATA
TTATTTGATCCTGATGGACGAAAATACTACACAAATAATTTTATCACCATCTAACTTTTCGGACAGCTAGTCTT
TGGATTCCAGGAACAGCTAAGCCTGGGCACTGGACTTACACCCTGAACAATACCCATCATTCTCTGCAAGCCCTG
AAAGTGACAGTGACCTCTCGCGCCTCCAACCTCAGCTGTGCCCCAGCCACTGTGGAAGCCTTTGTGAAAGAGAC
AGCCTCCATTTTCTCATCCTGTGATGATTTATGCCAATGTGAAACAGGGATTTTATCCCATTCTTAATGCCACT
GTCAGTGCCACAGTTGAGCCAGAGACTGGAGATCCTGTTACGCTGAGACTCCTTGATGATGGAGCAGGTGCTGAT
GTTATAAAAAATGATGGAATTTACTCGAGGTATTTTTTCTCCTTTGCTGCAAATGGTAGATATAGCTTGAAAGTG
CATGTCAATCACTCTCCAGCATAAGCACCCAGCCCACTCTATTCCAGGGAGTCATGCTATGTATGTACCAGGT
TACACAGCAAACGGTAATATTAGATGAATGCTCCAAGGAAATCAGTAGGCAGAAATGAGGAGGAGCGAAAGTGG
GGCTTTAGCCGAGTCAGCTCAGGAGGCTCCTTTTTCAGTGCTGGGAGTTCAGCTGGCCCCACCCTGATGTGTTT
CCACCATGCAAAATTATTGACCTGGAAGCTGTAAAAGTAGAAGAGGAATTGACCCTATCTTGACAGCACCTGGA
GAAGACTTTGATCAGGGCCAGGCTACAAGCTATGAAATAAGAATGAGTAAAAGTCTACAGAATATCCAAGATGAC
TTTAACAATGCTATTTTAGTAAATACATCAAAGCGAAATCCTCAGCAAGCTGGCATCAGGGAGATATTTACGTTT
TCACCCAGATTTCCACGAATGGACCTGAACATCAGCCAAATGGAGAAACACATGAAAGCCACAGAATTTATGTT
GCAATACGAGCAATGGATAGGAACCTCTTACAGTCTGCTGTATCTAACATTGCCAGGCGCCTCTGTTTATTCCC
CCCAATTCTGATCCTGTACCTGCCAGAGATTATCTTATATTGAAAGGAGTTTTAACAGCAATGGGTTTGATAGGA
ATCATTTCGCTTATTATAGTTGTGACACATCATACTTTAAGCAGGAAAAAGAGAGCAGACAAGAAAAGAGAATGGA
ACAAAATTATTATATAATAAATATCCAAAGTGCTTCTCTTCTTAGATATAAGACCCATGGCCTTCGACTACAAAA
CATACTAACAAAGTCAAATTAACATCAAACCTGTATTAAATGCATTGAGTTTTTGTACAATACAGATAAGATTT
TTACATGGTAGATCAACAATCTTTTTGGGGGTAGATTAGAAAACCCCTTACACTTTGGCTATGAACAAATAATAA
AAATTATTCTTTAAAGTAATGTCTTTAAAGGCAAAGGGAAGGGTAAAGTCGGACCAGTGTCAAGGAAAGTTTGT
TTATTGAGGTGGAAAAATAGCCCCAAGCAGAGAAAAGGAGGGTAGGTCTGCATTATAACTGTCTGTGTGAAGCAA
TCATTTAGTTACTTTGATTAATTTTTCTTTCTCCTTATCTGTGCAGAACAGGTTGCTTGTTTACAACCTGAAGAT
CATGCTATATTTTATATATGAAGCCCCTAATGCAAAGCTCTTTACCTCTTGCTATTTTGTATATATATTACAGA
TGAAATCTCACTGCTAATGCTCAGAGATCTTTTTTCACTGTAAGAGGTAACCTTTAACAATATGGGTATTACCTT
TGTCTCTTCATACCGGTTTTATGACAAAGGTCTATTGAATTTATTTGTTTGTAAAGTTTCTACTCCCATCAAAGCA

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FIGURE 578B

GCTTTCTAAGTTATTGCCTTGGTTATTATGGATGATAGTTATAGCCCTTATAATGCCTTACCTAGGAAA

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FIGURE 579

MTQRSIAGPICNLKFVTLVALSSELPFLGAGVQLQDNGYNGLLIAINPQVPENQNLISNIKEMITEASFYLFNA
TKRRVFFRNILIPATWKANNNSKIQESYEKANVIVTDWYGAHGDDPYTLQYRGCGKEGKYIHFTPNFLLNDN
LTAGYGSRRGVFVHEWAHLRWGVFDEYNNDKPFYINGQNQIKVTRCSSDITGIFVCEKGPCPQENCIISKLFKEG
CTFIYNSTQNATASIMFMQSLSSVVEFCNASTHNQEAPNLQNQMCSLRSAWDVITDSADFHHSFPMNGTELPPPP
LVQAGDKVVCVLVDVSSKMAEADRLLQLQQAEEFYLMQIVEIHTFVGIASFDSKGEIRAQLHQINSNDDRKL
LPTTVSAKTDISICSGLKKGFVVEKLNGKAYGSVMILVTSGDDKLLGNCLPTVLSSGSTIHSIALGSSAA
FELSRLTGGLKFFVPDISNSNSMIDAFSRISSTGDIHQHIQLESTGENVKPHHQLKNTVTVDNVTGNDTM
VTVQASGPPEIILFDPDGRKYYTNNFITNLTFRTASLWIPGTAKPGHWYTLNTHHSLQALKVTVTSRASNS
PATVEAFVERDSLHFPHPVMIYANVKQGFYPILNATVTATVEPETGDPVTLRLDDGAGADVIKNDGIYSRY
FAANGRYSLKVHVNHSPSISTPAHSIPGSHAMYVPGYTANGNIQMNAPRKSVGRNEEERKWGFSRVSSGGSF
VVPAGPHPDVFPPCKIIDLEAVKVEEELTSLWTAPGEDFDQGGQATSYEIRMSKSLQNIQDDFNAILVNTSK
QAGIREIFTFSPQISTNGPEHQPNGETHESHRIYVAIRAMDRNSLQSAVSNIAQAPLFIPPNSDPVPARDY
KGVLTAMGLIGIICLIIVVTHHTLSRKKRADKKENGTKLL

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FIGURE 580

ACTGCGAAGCGGCTTCTTCAGAGCACGGGCTGGAAGTGGCAGGCACCGCGAGCCCCTAGCACCCGACAAGCTGAG
TGTGCAGGACGAGTCCCCACCACACCCACACCCACAGCCGCTGAATGAGGCTTCCAGGCGTCCGCTCGCGGCCCCGC
AGAGCCCCGCGGTGGGTCCGCCCCTGAGGCGCCCCCAGCCAGTGCCTTACCTGCCAGACTGCGCGCCATGGGG
CAACCCGGGAACGGCAGCGCCTTCTTGCTGGCACCCAATAGAAGCCATGCGCCGGACCACGACGTCACGCAGCAA
AGGGACGAGGTGTGGGTGGTGGGCATGGGCATCGTCATGTCTCTCATCGTCCTGGCCATCGTGTGTTGGCAATGTG
CTGGTCATCACAGCCATTGCCAAGTTCGAGCGTCTGCAGACGGTCACCAACTACTTCATCACTTCACTGGCCTGT
GCTGATCTGGTCATGGGCCTGGCAGTGGTGCCCTTTGGGGCCGCCCATTCTTATGAAAATGTGGACTTTTGGC
AACTTCTGGTGCGAGTTTTGGACTTCCATTGATGTGCTGTGCGTCACGGCCAGCATTGAGACCCTGTGCGTGATC
GCAGTGGATCGCTACTTTGCCATTACTTCACCTTTCAAGTACCAGAGCCTGCTGACCAAGAATAAGGCCCGGGTG
ATCATTCTGATGGTGTGGATTGTGTGTCAGGCCTTACCTCCTTCTTGCCATTGAGATGCACTGGTACCGGGCCACC
CACCAGGAAGCCATCAACTGCTATGCCAATGAGACCTGCTGTGACTTCTTCACGAACCAAGCCTATGCCATTGCC
TCTTCCATCGTGTCTTCTACGTTCCCCTGGTGATCATGGTCTTCGTCTACTCCAGGGTCTTTCAGGAGGCCAAA
AGGCAGCTCCAGAAGATTGACAAATCTGAGGGCCGCTTCCATGTCCAGAACCTTAGCCAGGTGGAGCAGGATGGG
CGGACGGGGCATGGACTCCGCAGATCTTCCAAGTTCTGCTTGAAGGAGCACAAAGCCCTCAAGACGTTAGGCATC
ATCATGGGCACTTTACCCTCTGCTGGCTGCCCTTCTTCATCGTTAACATTGTGCATGTGATCCAGGATAACCTC
ATCCGTAAGGAAGTTTACATCCTCCTAAATTGGATAGGCTATGTCAATTCTGGTTTCAATCCCCTTATCTACTGC
CGGAGCCCAGATTTAGGATTGCCTTCCAGGAGCTTCTGTGCCTGCGCAGGTCTTCTTTGAAGGCCTATGGGAAT
GGCTACTCCAGCAACGGCAACACAGGGGAGCAGAGTGGATATCACGTGGAACAGGAGAAAGAAAATAAACTGCTG
TGTGAAGACCTCCAGGCACGGAAGACTTTGTGGGCCATCAAGGTACTGTGCCTAGCGATAACATTGATTACAA
GGGAGGAATTGTAGTACAAATGACTCACTGCTGTAAAGCAGTTTTTCTACTTTTAAAGACCCCCCCCCCCCCAAC
AGAACACTAAACAGACTATTTAACTTGAGGGTAATAAACTTAGAATAAAATTGTAAAAATTGTATAGAGATATGC
AGAAGGAAGGGCATCCTTCTGCCTTTTTTATTTTTTTAAGCTGTAAAAAGAGAGAAAACCTATTTGAGTGATTAT
TTGTTATTTGTACAGTTCAGTTCCTCTTTGCATGGAATTTGTAAGTTTATGTCTAAAGAGCTTTAGTCCTAGAGG
ACCTGAGTCTGCTATATTTTCATGACTTTTCCATGTATCTACCTCACTATTCAAGTATTAGGGGTAATATATTGC
TGCTGGTAATTTGTATCTGAAGGAGATTTTCTTCTACACCTTGGACTTGAGGATTTTGAATATCTCGGACCT
TTCAGCTGTGAACATGGACTCTTCCCCACTCCTCTTATTTGCTCACACGGGGTATTTTAGGCAGGGATTTGAGG
AGCAGCTTCAGTTGTTTTCCCGAGCAAAGGTCTAAAGTTTACAGTAAATAAAATGTTTGACCATG

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FIGURE 581

MGQPGNGSAFL LAPNRSHAPDHDVTQQRDEVVVGMGIVMSLIVLAIVFGNVLVITAIKFERLQTVTNYFITSL
ACADLVMGLAVVPFGAAHILMKMWTFGNFWCEFWTSIDVLCVTASIELCVIAVDRYFAITSPFKYQSLLTKNKA
RVIILMVWIVSGLTSFLPIQMHWRATHQEAINCYANETCCDFFTQAYAIASSIVSFYVPLVIMVFVYSRVFQE
AKRQLQKIDKSEGRFHVQNLSQVEQDGRGTGHGLRRSSKFCLKEHKALKTLGIIMGTFTLCWLPPFFIVNIVHVIQD
NLIRKEVYILLNWIGYVNSGFNPLIYCRSPDFRIAFQELLCLRRSSLKAYGNGYSSNGNTGEQSGYHVEQEKENK
LLCEDLPGTEDFVGHQGTVPDNDISQGRNCSTNDSSL

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FIGURE 582

GGTTCAGGAACCTGCTGGTTCTGATACATAAATCAGACAGCCTCTGCTGCATGACACGAAGCTTGCTTCTGCCTG
GCATCTGTGAGCAGCTGCCAGGCTCCGGCCAGGATCCCTTCCTTCTCCTCATTGGCTGATGGATCCCAAGGGGCT
CCTCTCCTTGACCTTCGTGCTGTTTCTCTCCCTGGCTTTTGGGGCAAGCTACGGAACAGGTGGGCGCATGATGAA
CTGCCCCAAAGATTCTCCGGCAGTTGGGAAGCAAAGTGCTGCTGCCCCTGACATATGAAAGGATAAATAAGAGCAT
GAACAAAAGCATCCACATTGTCGTCACAATGGCAAAATCACTGGAGAACAGTGTGAGAACAAAATAGTGTCTCT
TGATCCATCCGAAGCAGGCCCTCCACGTTATCTAGGAGATCGCTACAAGTTTATCTGGAGAATCTCACCTGGG
GATACGGGAAAAGCAGGAAGGAGGATGAGGGATGGTACCTTATGACCCTGGAGAAAAATGTTTCAGTTCAGCGCTT
TTGCCTGCAGTTGAGGGCTTTATGAGCAGGTCTCCACTCCAGAAATTAAAGTTTTAAACAAGACCCAGGAGAACGG
GACCTGCACCTTGATACTGGGCTGCACAGTGGAGAAGGGGGACCATGTGGCTTACAGCTGGAGTGAAAAGGCGGG
CACCCACCCACTGAACCCAGCCAACAGCTCCACCTCCTGTCCCTCACCTCGGCCCCAGCATGCTGACAATAT
CTACATCTGCACCGTGAGCAACCCTATCAGCAACAATTCCCAGACCTTCAGCCCGTGGCCCGGATGCAGGACAGA
CCCCCTCAGAAACAAAACCATGGGCAGTGTATGCTGGGCTGTTAGGGGGTGTATCATGATTCTCATCATGGTGGT
AATACTACAGTTGAGAAGAAGAGGTAAAACGAACCATTACCAGACAACAGTGGAAAAAAGCCTTACGATCTA
TGCCAAGTCCAGAAACCAGGTCTCTTCAGAAGAACTTGACTCCTTCCCAGCTCAGGACCCCTTGACCACCAT
ATATGTTGCTGCCACAGAGCCTGTCCAGAGTCTGTCCAGGAAACAAATTCATCAGTCTATGCTAGTGTGAC
ACTTCCAGAGAGCTGACACACAGAGACCAACAAAGGGACTTTCTGAAGGAAAATGGAAAAACCAAATGAACACTG
AACTTGGCCACAGGCCCAAGTTTCTCTGGCAGACATGCTGCACGTCTGTACCCTTCTCAGATCAACTCCCTGGT
GATGTTTCTTCCACATACATCTGTGAAATGAACAAGGAAGTGAGGCTTCCAAGAATTTAGCTTGCTGTGCAGTG
GCTGCAGGCGCAGAACAGAGCGTTACTTGATAACAGCGTTCATCTTTGTGTTGTAGCAGATGAAATGGACAGTA
ATGTGAGTTCAGACTTTGGGCATCTTGCTCTTGGCTGGAACGATAATAAAAATCAGACTGAAAGCCAGGACATC
TGAGTACCTATCTCACACACTGACCACCAGTCACAAAGTCTGGAAAAGTTTACATTTTGGCTATCTTTACTTTGT
TCTGGGAGCTGATCATGATAACCTGCAGACCTGATCAAGCCTCTGTGCCTCAGTTTCTCTCTCAGGATAAAGAGT
GAATAGAGGCCGAAGGGTGAATTTCTTATTATACATAAAACACTCTGATATTATTGTATAAAGGAAGCTAAGAAT
ATTATTTTATTTGCAAAACCCAGAAGCTAAAAAGTCAATAAACAGAAAGATGATTTTGAGAAA

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FIGURE 583

MDPKGLLSLTFVLFLSLAFGASYGTGGRMMNCPKILRQLGSKVLLPLTYERINKSMNKSIHIVVTMAKSLNSVE
NKIVSLDPSEAGPPRYLGDYKFYLENLTGIRESRKEDEGWYLMTEKNVSVQRFCLQLRLYEQVSTPEIKVLN
KTQENGCTLIILGCTVEKGDHVAYSWSEKAGTHPLNPANSSHLLSLTLGPQHADNIYICTVSNPISNNSQTFSPW
PGCRTDPSETKPWAVYAGLLGGVIMILIMVILQLRRRGKTNHYQTTVEKKSLTIYAQVQKPGPLQKKLDSFPAQ
DPCTTIYVAATEPVPESVQETNSITVYASVTLPE\$

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FIGURE 584

ATTTAAATTCTGCAGCTCAGAGATTCACACAGAAGTCTGGACACAATTCAGAAGAGCCACCCAGAAGGAGACAAC
AATGTCCTGCTACCCGTGCCATACACAGAGGCTGCCTCTTTGTCTACTGGTTCTACTGTGACAATCAAAGGGCG
ACCACTTGCTGTTTCTTGAATGAACCATATCTGCAGGTGGATTTCCACACTGAGATGAAGGAGGAATCAGACAT
TGTCTTCCATTTCCAAGTGTGCTTTGGTCGTCGTGTGGTCATGAACAGCCGTGAGTATGGGGCCTGGAAGCAGCA
GGTGGAATCCAAGAATATGCCCTTTCAGGATGGCCAAGAATTTGAACTGAGCATCTCAGTGCTGCCAGATAAGTA
CCAGGTAATGGTCAATGGCCAATCCTCTTACACCTTTGACCATAGAATCAAGCCTGAGGCTGTGAAGATGGTGCA
AGTGTGGAGAGATATCTCCCTGACCAAATTTAATGTCAGCTATTTAAAGAGATAACCAGACTTCATGTTGCCAAG
GAATCCCTGTCTCTACGTGAACTTGGGATTCCAAAGCCAGCTAACAGCATGATCTTTTCTCACTTCAATCCTTAC
TCCTGCTCATTAAAACTTAATCAAACCTTCAAAAAAAAAA

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FIGURE 585

MSLLPVPYTEAASLSTGSTVTIKGRPLACFLNEPYLQVDFHTEMKEESDIVFHFQVCFGRRVVMNSREYGAWKQQ
VFSKNMPFQDGQEFELSI SVLPDKYQVMVNGQSSYTFDHRIKPEAVKMVQVWRDISLTGFNVSYLKR

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FIGURE 586

GCTGGTCCGAGGCTCGCAGTGCTGTCCGGCGAGAAGCAGTCGGGTTTGGAGCGCTTGGGTTCGCGTTGGTGCGCGGT
GGAACGCGCCCAGGGACCCCAGTTCCCGCGAGCAGCTCCGCGCCGCGCCTGAGAGACTAAGCTGAAACTGCTGCT
CAGCTCCCAAGATGGTGCCACCCAAATTCATGTGCTTTTCTGCCTCTGCGGCTGCCTGGCTGTGGTTTATCCTT
TTGACTGGCAATACATAAATCCTGTTGCCCATATGAAATCATCAGCATGGGTCAACAAAATACAAGTACTGATGG
CTGCTGCAAGCTTTGGCCAAACTAAAATCCCCGGGGAAATGGGCCTTATTCCGTTGGTTGTACAGACTTAATGT
TTGATCACACTAATAAGGGCACCTTCTTGCGTTTATATTATCCATCCCAAGATAATGATCGCCTTGACACCCTTT
GGATCCCAAATAAAGAATATTTTGGGGTCTTAGCAAATTTCTTGGAACACACTGGCTTATGGGCAACATTTTGA
GGTTACTCTTTGGTTCAATGACAACTCCTGCAAATGGAATTCCTCTGAGGCCTGGTGAAAAATATCCACTTG
TTGTTTTTCTCATGGTCTTGGGGCATTAGGACACTTTATTCTGCTATTGGCATTGACCTGGCATCTCATGGGT
TTATAGTTGCTGCTGTAGAACACAGAGATAGATCTGCATCTGCAACTTACTATTTCAAGGACCAATCTGCTGCAG
AAATAGGGGACAAGTCTTGGCTCTACCTTAGAACCTGAAACAAGAGGAGGAGACACATATACGAAATGAGCAGG
TACGGCAAAGAGCAAAAGAATGTTCCCAAGCTCTCAGTCTGATTCTTGACATTGATCATGGAAAGCCAGTGAAGA
ATGCATTAGATTTAAAGTTTGATATGGAACAACGAAGGACTCTATTGATAGGGAAAAATAGCAGTAATTGGAC
ATTCTTTTGGTGGAGCAACGGTTATTAGACTCTTAGTGAAGATCAGAGATTCAGATGTGGTATTGCCCTGGATG
CATGGATGTTCCACTGGGTGATGAAGTATATTCCAGAATTCCTCAGCCCCTCTTTTTTATCAACTCTGAATATT
TCCAATATCCTGCTAATATCATAAAAATGAAAAATGCTACTCACCTGATAAAGAAAGAAAGATGATTACAATCA
GGGGTTCAGTCCACCAGAATTTTGCTGACTTCACTTTTGCAACTGGCAAAATAATTGGACACATGCTCAAATTAA
AGGGAGACATAGATTCAAATGTAGCTATTGATCTTAGCAACAAAGCTTCATTAGCATTCTTACAAAAGCATTTAG
GACTTCATAAAGATTTTGATCAGTGGGACTGCTTGATTGAAGGAGATGATGAGAATCTTATTCCAGGGACCAACA
TTAACACAACCAATCAACACATCATGTTACAGAACTCTTCAGGAATAGAGAAATACAATTAGGATTAAATAGGT
TTTTT

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FIGURE 587

MVPPKLHVLFCCLGCLAVVYPFDWQYINPVAHMKSSAWVNKIQVLMAAASFQTKIPRGNGPYSVGCTDLMFDHT
NKGTFRLRYYPQDNDRLDTLWIPNKEYFWGLSKFLGTHWLMGNILRLLFGSMTTPANWNSPLRPGEKYPLVVS
HGLGAFRTLYSAIGIDLASHGFIVA AVEHRDRSASATYYFKDQSAAEIGDKSWLYLRTLKQEEETHIRNEQVRQR
AKECSQALSILIDIDHGKPVKNALDLKFDMEQLKDSIDREKIAVIGHSFGGATVIQTLSEDQRFRCGIALDAWMF
PLGDEVYSRIPQPLFFINSEYFQYPANIIKMKKCYSPDKERKMITIRGSVHQNFADFTFATGKIIGHMLKLKGD I
DSNVAIDL SNKASLAFLQKHLGLHKDFDQWDCLIEGDDENLIPGTNINTTNQHIMLQNSSGIEKYN

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FIGURE 588

GAGAGACTGGATGGACCCACAAGGGTGACAGCCCAGGCGGACCGATCTTCCCATCCCACATCCTCCGGCGCGATG
CCAAAAAGAGGCTGACGGCAACTGGGCCTTCTGCAGAGAAAGACCTCCGCTTCACTGCCCCGGCTGGTCCCAAGG
GTCAGGAAGATGGATTTCATACCTGCTGATGTGGGGACTGCTCACGTTTCATCATGGTGCCTGGCTGCCAGGCAGAG
CTCTGTGACGATGACCCGCCAGAGATCCCACACGCCACATTCAAAGCCATGGCCTACAAGGAAGGAACCATGTTG
AACTGTGAATGCAAGAGAGGTTTCCGCGAGAATAAAAAGCGGGTCACTCTATATGCTCTGTACAGGAACTCTAGC
CACTCGTCCTGGGACAACCAATGTCAATGCACAAGCTCTGCCACTCGGAACACAACGAAACAAGTGACACCTCAA
CCTGAAGAACAGAAAGAAAGGAAAACACAGAAATGCAAAGTCCAATGCAGCCAGTGGACCAAGCGAGCCTTCCA
GGTCACTGCAGGGAACCTCCACCATGGGAAAATGAAGCCACAGAGAGAAATTTATCATTTTCGTGGTGGGGCAGATG
GTTTATTATCAGTGCCTCCAGGGATACAGGGCTCTACACAGAGGTCTTGCTGAGAGCGTCTGCAAAATGACCCAC
GGGAAGACAAGGTGGACCCAGCCCCAGCTCATATGCACAGGTGAAATGGAGACCAGTCAGTTTCCAGGTGAAGAG
AAGCCTCAGGCAAGCCCCGAAGGCCGTCTGAGAGTGAGACTTCTGCTCGTCACAACAACAGATTTTCAAATA
CAGACAGAAATGGCTGCAACCATGGAGACGTCCATATTTACAACAGAGTACCAGGTAGCAGTGGCCGGCTGTGTT
TTCCTGCTGATCAGCGTCTCTCTCTGAGTGGGCTCACCTGGCAGCGGAGACAGAGGAAGAGTAGAAGAACAATC
TAGAAAACCAAAAGAACAAGAATTTCTTGGAAGAAGCCGGGAACAGACAACAGAAGTCATGAAGCCCCAAGTGAA
ATCAAAGGTGCTAAATGGTCGCCCAGGAGACATCCGTTGTGCTTGCCTGCGTTTTGGAAGCTCTGAAGTCACATC
ACAGGACACGGGGCAGTGGCAACCTTGTCTCTATGCCAGCTCAGTCCCATCAGAGAGCGAGCGCTACCCACTTCT
AAATAGCAATTTCCGCGTTGAAGAGGAAGGGCAAAACCACTAGAACTCTCCATCTTATTTTCATGTATATGTGTT
CATTAAAGCATGAATGGTATGGAACCTCTCTCCACCCTATATGTAGTATAAAGAAAAGTAGGTTTACATTTCATCTC
ATTCCAACCTCCCAGTTCAGGAGTCCCAAGGAAAGCCCCAGCACTAACGTAAATACACAACACACACACTCTACC
CTATACAACCTGGACATTGTCTGCGTGGTTCCCTTCTCAGCCGCTTCTGACTGCTGATTCTCCCGTTCACGTTGCC
TAATAAACATCCTTCAAGAACTCTGGGCTGCTACCCAGAAATCATTTTACCCTTGGCTCAATCCTCTAAGCTAAC
CCCCTTCTACTGAGCCTTCAGTCTTGAATTTCTAAAAAACAGAGGCCATGGCAGAATAATCTTTGGGTAACCTCA
AAACGGGGCAGCCAAACCCATGAGGCAATGTCAGGAACAGAAGGATGAATGAGGTCCCAGGCAGAGAATCATACT
TAGCAAAGTTTTACCTGTGCGTTACTAATTGGCCTCTTTAAGAGTTAGTTTCTTTGGGATTGCTATGAATGATAC
CCTGAATTTGGCCTGCACTAATTTGATGTTTACAGGTGGACACACAAGGTGCAAATCAATGCGTACGTTTCTGTA
GAAGTGTCTAAAAACACCAAAAAGGGATCCGTACATTCAATGTTTATGCAAGGAAGGAAAGAAAGAAGGAAGTGA
AGAGGGAGAAGGGATGGAGGTCACACTGGTAGAACGTAACCACGAAAAGAGCGCATCAGGCCTGGCACGGTGGC
TCAGGCCTATAACCCCAGCTCCCTAGGAGACCAAGGCGGGAGCATCTCTTGAGGCCAGGAGTTTGAGACCAGCCT
GGGCAGCATAGCAAGACACATCCCTACAÀAAAAATTAGAAATTGGCTGGATGTGGTGGCATAACGCTGTAGTCCTA
GCCACTCAGGAGGCTGAGGCAGGAGGATTGCTTGAGCCAGGAGTTCGAGGCTGCAGTCAGTCATGATGGCACCA
CTGCACTCCAGCCTGGGCAACAGAGCAAGATCCTGTCTTTAAGGAAAAAAGACAAGG

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FIGURE 589

MDSYLLMWGLLTFIMVPGCQAE LCDDDPPEIPHATFKAMAYKEGTMLNCECKRGFRRIKSGSLYMLCTGNSSHSS
WDNQCQCTSSATRNTTKQVTPOPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMVYY
QCVQGYRALHRGPAESVCKMTHGKTRWTQPQLICTGEMETSQFPGEEKPOASPEGRPESETSCLVTTTDFQIQTE
MAATMETSIFTTEYQVAVAGCVFLLISVLLLSGLTWQRRQRKSRTI

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FIGURE 590

ATCTTTTTTCATCTTCTAGCTGTAGCTCGGGCTGCTTGTGCGCTTGGCTCCCCCTCCCCCTTTGCTCTCTGCCT
CGTCTTTCCCCAGGACTTCGCTATTTTGTCTTTTTTAAAAAAGGCAAGAAAGAACTAAACTCCCCCTCCCTCTC
CTCCAGTCGGGCTGCACCTCTGCCTTGCCTTTGCACAGAGGTAGAGAGCGCGGAGGGAGAGAGAGGAAAGAAA
AAAAATAATAAAGAGAGCCAAGCAGAAGAGGAGGCGAGAAGCATGAAGTGTTAACTCCCCGTGCCAAGGCCCGC
GCCGCCCGGACAGACGCCCGCCGCGCCTTCCAGCCCCGAGCGGACGCCGCGCGCCCGCTGCCCTGCAGCCCGGC
CGGCGACGGCGAGCCCTTCCTTATGCAAAGCGCGCCAGCAGCGGAAGGCGGGACGCCGCGCACCGGGCCGGGCT
CCTCCAGCTTCGCCCGCCGACGCCACCACCGCCGCCACCGCAGCTCGCGGAGGATCTTCCCGAGCCTGAAGCCGCC
GGCTCGGCGCGCAAGGAGGCGAGCGCAAGGAGGGGCGGGGCGAGCGAGGGAGCACATTGGCGTGAGCAGGGGGG
AGGGAGGGCGGGCGCGGGGGGCGCGGGCAGGGCGGGGGGGTGTGTGTGTGAGCGCGCTTGGAGGTTTCGGGCCAG
CCACCGCCGCGCAAGCTAGAAGCGCCCCAGCCCCGCAAGCTGGCTCACCCGCTGGCCACCCAGCACAGCCCGCTG
GCCCTCTCCTGCAGCCCATCTGGCGGAGCGGCGGGCGGGCGGGCGCGGCGGCGGAGGAGAAATGGCATCAGAACTGGCA
ATGAGCAACTCCGACCTGCCACCAAGTCCCCTGGCCATGGAATATGTTAATGACTTCGATCTGATGAAGTTTGAA
GTGAAAAAGGAACCGGTGGAGACCGACCGCATCATCAGCCAGTGCGGGCGTCTCATCGCCGGGGGCTCGCTGTCC
TCCACCCCATGAGCAGCCGTGCAGCTCGGTGCCCCCTTCCCCAGCTTCTCGGCGCCCAGCCCGGGCTCGGGC
AGCGAGCAGAAGGCGCACCTGGAAGACTACTACTGGATGACCGGCTACCCGCAGCAGCTGAACCCCGAGGCGCTG
GGCTTCAGCCCCGAGGACGCGGTGAGGCGCTCATCAGCAACAGCCACCAGCTCCAGGGCGGCTTCGATGGCTAC
GCGCGCGGGGCGCAGCAGCTGGCCGCGGCGGGCGGGGCGGTGCCGCGCCTCCTTGGGCGGCAGCGGCGAGGAG
ATGGGCCCCGCGGCGCCGTGGTGTCCGCGTGATCGCCGCGGCCGCGCGCAGAGCGGCGGGGCCGCGACTAC
CACCACCACCACCACCGCCGCGGCCACCACCACCACCCGACGGCCGCGCGCCCGGCGCGGGCAGCGCG
GCCGCTCGGCCGCTGGCGCTGGGGGCGCGGGCGGCGGTGGCCCGGCCAGCGCTGGGGGCGGCGGCGGGCGGGC
GGCGGCGGAGGCGCGGGGGCGCGGCGGGGGCGGGGGCGCCCTGCACCCGCACCACGCCGCGGCGGCGCTGCAC
TTCGACGACCGCTTCTCCGACGAGCAGCTGGTGACCATGTCTGTGCGCGAGCTGAACCGGCAGCTGCGCGGGGTC
AGCAAGGAGGAGGTGATCCGGCTGAAGCAGAAGAGGCGGACCCCTGAAAACCGCGGCTATGCCAGTCCTGCCGC
TTCAAGAGGGTGCAGCAGAGACACGTCCTGGAGTCGGAGAAGAACCAGCTGCTGCAGCAAGTCGACCACCTCAAG
CAGGAGATCTCCAGGCTGGTGCGGAGAGGGACGCGTACAAGGAGAAATACGAGAAGTTGGTGAGCAGCGGCTTC
CGAGAAAACGGCTCGAGCAGCGACAACCCGTCCTCTCCCGAGTTTTTTCATAACTGAGCCCACTCGCAAGTTGGAG
CCATCAGTGGGATACGCCACATTTTGAAGCCCCAGCATCGTGTACTTACCAGTGTGTTACAAAAATGAAATTTG
TGTGAGAGCTGTACATTAAAAAAAACATCATTATTATTATTATTTGCAGTCATGGAGAACCACCTACCCCTGACT
TCTGTTTAGTCTCCTTTTTTAAATAATACTGTGTTAGAAAAAAA

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FIGURE 591

MASELAMNSDLPTSPLAMEYVNDFDLMKFEVKKEPVETDRIISQCGRLIAGGSLSTPMSTPCSSVPPSPSFSA
ISPGSGSEQKAHLEDYYWMTGYPOQLNPEALGFSPEDAVEALISNSHQLQGGFDGYARGAQQLAAAAGAGAGASL
CGSGEEMGPAAAVVSAVIAAAAAQSGAGPHYHHHHHHAAGHHHPTAGAPGAAGSAAASAGGAGGAGGGGPASAG
CGGGGGGGGGGGAAGAGGALHPHHAAGGLHFDDRFSDEQLVTMSVRELNRQLRGVSKEEVIRLKQKRRTLKNRG
...CRFKRVQQRHVLESEKNQLLQQVDHLKQEISRLVRERDAYKEYEKLVS SGFRENGSSSDNPSSPEFFITE
LEPSVGYATFWKPQHRVLT SVFTK

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FIGURE 592

AGCTCAGCAGGACCTCAGCCATGGAGACTTCTCATCCTGGCCCTCCTTGGCATCTGCTCTCTCACTGCATACATTG
TGGAAGGTGTAGGGAGTGAAGTCTCAGATAAGAGGACCTGTGTGAGCCTCACTACCCAGCGACTGCCGGTTAGCA
GAATCAAGACCTACACCATCACGGAAGGCTCCTTGAGAGCAGTAATTTTTATTACCAAACGTGGCCTAAAAGTCT
GTGCTGATCCACAAGCCACATGGGTGAGAGACGTGGTCAGGAGCATGGACAGGAAATCCAACACCAGAAATAACA
TGATCCAGACCAAGCCAACAGGAACCCAGCAATCGACCAATACAGCTGTGACTCTGACTGGCTTAGTAGTCTCTGG
CACCCCTGTCCGTCTCCAGCCAGCCAGCTCATTTCACTTTACACGCTCATGGACTGAGTTTATACTCACCTTTTAT
GAAAGCACTGCATGAATAAAATTATTCCTTTGTATTTTTACTTTTAAATGTCTTCTGTATTCACTTATATGTTCT
AATTAATAAATTATTTATTATTAAAGAATAGTTCCTAGTCTATTTCATTATATTTAGGGAAAGGTAGTGTATCATT
GTTGTTTGATTTCTGACCTTGTACCTCTCTTTGATGGTAACCATAATGGAAGAGATTCTGGCTAGTGTCTATCAG
AGGTGAAAGCTATATCAATCTCTCTTAGAGTCCAGCTTGTAATGGTTCTTTACACATCAGTCACAAGTTACAGCT
GTGACAATGGCAACAATTTGAGATGTATTTCAACTTGTCTCTATAATAGAATTCTGTTTATAGAATAAGGGAGAA
AATAATCCAGTCTTCACTGGGTTCCTATTCTGAGGGTCCACTACTCAAAAATTTGCTTCACCTCAATTTTTTTCAC
CTCTTTGTGTTTTATTTTGGTGTCCATTATAAAGGAATAAAATGACACAACCTTGTCCTTTTTTGTCCCATTAGCA
AAAATTAGAATTTTGGTATAAAGAACTTTATTCAAGTAAAAATCAATACCCTTTGAATTGGACAATAATCTCAC
TACCTTATTAGGATTTCTGTATTTGCCATTACGCTAGTTATCATGCATGTTATGCTTTACTGCGAATAAGCTTTT
AATGCTCCAAATGCTGACCCATGCAATATTTCTCATGTGATCACAATTTGCAGTAACTTTTAATTAAATGCTC
ATCTGGTAACTCAACACCCAG

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FIGURE 593

MRLILALLGICSLTAYIVEGVGSEVSDKRTCVSLETTQRLPVSRIKTYTITEGSLRAVIFITKRGLKVCADPQAT
WVRDVVRSMRKSNTNRNNMIQTKPTGTQQSTNTAVTLTG

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FIGURE 594

GAGTCAGCCCCCGGGGGAGGCCATGAACGCCACGGGGACCCCGGTGGCCCCCGAGTCCTGCCAACAGCTGGCGGC
CGGCGGGCACAGCCGGCTCATTGTTCTGCACTACAACCACTCGGGCCGGCTGGCCGGGCGCGGGGGGCCGAGGA
TGGCGGCCTGGGGGCCCTGCGGGGGCTGTCGGTGGCCGCCAGCTGCCTGGTGGTGCTGGAGAACTTGCTGGTGCT
GGCGGCCATCACCAGCCACATGCGGTGCGGACGCTGGGTCTACTATTGCCTGGTGAACATCACGCTGAGTGACCT
GCTCACGGGCGCGGCCCTACCTGGCCAACGTGCTGCTGTGCGGGGGCCCGCACCTTCCGTCTGGCGCCCGCCAGTG
GTTCTTACGGGAGGGCCTGCTCTTACCGCCCTGGCCGCCTCCACCTTCAGCCTGCTCTTCACTGCAGGGGAGCG
CTTTGCCACCATGGTGCGGCCGGTGGCCGAGAGCGGGGCCACCAAGACCAGCCGCGTCTACGGCTTCATCGGCCT
CTGCTGGCTGCTGGCCGCGCTGCTGGGGATGCTGCCTTTTGCTGGGCTGGAAGTGCCTGTGCGCCTTTGACCGCTG
CTCCAGCCTTCTGCCCCCTCTACTCCAAGCGCTACATCCTCTTCTGCCTGGTGATCTTCGCCGGCGTCCTGGCCAC
CATCATGGGCCTCTATGGGGCCATCTTCCGCCTGGTGACAGGCCAGCGGGCAGAAGGCCCCACGCCAGCGGCCCG
CCGCAAGGCCCCGCCGCTGCTGAAGACGGTGCTGATGATCCTGCTGGCCTTCCCTGGTGTGCTGGGGCCCACTCTT
CGGGCTGCTGCTGGCCGACGTCTTTGGCTCCAACCTCTGGGCCCAGGAGTACCTGCGGGGCATGGACTGGATCCT
GGCCCTGGCCGTCCTCAACTCGGCGGTCAACCCCATCATCTACTCCTTCCGCAGCAGGGAGGTGTGCAGAGCCGT
GCTCAGCTTCCTCTGCTGCGGGTGTCTCCGGCTGGGCATGCGAGGGCCCCGGGGACTGCCTGGCCCCGGGCCGTGA
GGCTCACTCCGGAGCTTCCACCACCGACAGCTCTCTGAGGCCAAGGGACAGCTTTCGCGGGCTCCCGCTCGCTCAG
CTTTCGGATGCGGGAGCCCCCTGTCCAGCATCTCCAGCGTGCGGAGCATCTGGAAGTTGCAGTCTTGCGTGTGGATG
GTGCAGCCACCGGGTGCCTGCCAGGCAGGCCCTCCTGGGGTACAGGAAGCTGTGTGCACGCAGCCTCGCCTGTAT
GGGGAGCAGGGAACGGGACAGGCCCCCATGGTCTTCCCGGTGGCCTCTCGGGGCTTCTGACGCCAAATGGGCTTC
CCATGGTCACCCTGGACAAGGAGGTAACCAACCCACCTCCCCGTAGGAGCAGAGAGCACCTGGTGTGGGGGCGA
GTGGTTCCCCACAACCCCGCTTCTGTGTGATTCTGGGGAAGTCCCGGCCCTCTCTGGGCCTCAGTAGGGCTCCC
AGGCTGCAAGGGGTGGACTGTGGGATGCATGCCCTGGCAACATTGAAGTTCGATCATGGTAAAAAA

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FIGURE 595

MNATGTPVAPESCQQLAAGGHSRLIVLHYNHSGRLAGRGGPEDGGLGALRGLSVAASCLVVLENLLVLAAITSHM
RSRRWVYYCLVNITLSDLLTGAAYLANVLLSGARTFRLAPAQWFLREGLLFTALAASTFSLFTAGERFATMVRP
VAESGATKTSRVYGFIGLCWLLAALLGMLPLLGNCLCAFDRCSLLPLYSKRYILFCLVIFAGVLATIMGLYGA
IFRLVQASGQKAPRPAARRKARRLLKTVLMILLAFVLCWGPIFGLLLADVFGSNLWAEYLRGMDWILALAVLNS
AVNP IIYSFRSREVCRAVLSFLCCGCLRLGMRGPGDCLARAVEAHSGASTTDSSLRPRDSFRGSRSLSFMRREPL
SSISSVRSI

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FIGURE 596

GTGGGCAGCCGAGGCCGCGAACTGCATCATGGAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCC
GCCTCTTGAAGAAGTGTCTGTGGCCAGGCGGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGA
TTACTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTA
CCGCAACTCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGCTGGACGTCGGCTCGGGCACCGGCAT
CCTCTGCATGTTTGCTGCCAAGGCCGGGGCCCGCAAGGTCATCGGGATCGTGTGTTCCAGTATCTCTGATTATGC
GGTGAAGATCGTCAAAGCCAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCT
CCCAGTGGAGAAGGTGGCATCATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACC
GTGCTCTATGCCCCGGGACAAGTGTGGCGCCCGATGGCCTCATCTTCCCAGACCGGGCCACGCTGTATGTGACGGC
CATCGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGCA
CAAAGATGTGGCCATTAAGGAGCCCCTAGTGGATGTGCTGGACCCCAACAGCTGGTCACCAACGCCTGCCTCAT
AAAGGAGGTGGACATCTATAACCGTCAAGGTGGAAGACCTGACCTTCACCTCCCCGTTCTGCCTGCAAGTGAAGCG
GAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGGACCGGCTTCTC
CACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTCTACATGGAGGACTACCTGACCGTGAAGAC
GGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGA
CCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCCTGCTCCACCGACTACCGGATGCGCTTGAGGGCCCGGCTCTCCC
GCCCCTGCACGAGCCCAGGGGCTGAGCGTTCCTAGGCGGTTTCGGGGCTCCCCCTTCCCTCTCCCTCCCTCCCGCAG
AAGGGGGTTTTAGGGGCCTGGGCTGGGGGGATGGGGAGGGCACATCGTGACTGTGTTTTTCATAACTTATGTTTT
TATATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

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FIGURE 597

MENFVATLANGMSLQPPLEEVSCGQAESSEKPNADMTSKDYFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRH
LFDKVVLDVGSGTGILCMFAAKAGARKVIGIVCSSISDYAVKIVKANKLDHVVTIIKGKVEEVELPVEKVASS
ASGWATASSTSPCSTPCSMPTSVAPDGLIFPDRTLYVTAIEDRQYKDYKIHWVENYGFDMSCIKDVAIKEPL
VDVDPKQLVTNACLIKEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTH
EVFYMEDYLTVKTGEEIFGTIGMRPNAKNNRDLDFIDLDFKGQLCELSCSTDYRMR

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FIGURE 598

ACAGGGGTGAAGGCCAGAGACCAGCAGAACGGCATCCAGCCACGACGGCCACTTTGCTCTGTCTGCTGTCCGC
CACGGCCCTGCTCTGTTCCCTGGGACACCCCCGCCCCACCTCCTCAGGCTGCCTGATCTGCCCAGCTTTCCAGC
TTTCTCTGGATTCCGGCCTCTGGTCATCCCTCCCCACCCTCTCTCCAAGGCCCTCTCCTGGTCTCCCTTCTTCT
AGAACCCTTCTCCACCTCCCTCTCTGCAGAACTTCTCCTTTACCCCCACCCCCACCACTGCCCCCTTTCCT
TTTCTGACCTCCTTTTGGAGGGCTCAGCGCTGCCAGACCATAGGAGAGATGTTGGGAGGCTCAGTTCTTGGGCTT
GCTGTTTCTGCAGCCGCTTTGGGTGGCTCCAGTGAAGCCTCTCCAGCCAGGGGCTGAGGTCCCGGTGGTGTGGGC
CCAGGAGGGGGCTCCTGCCCAGCTCCCCTGCAGCCCCACAATCCCCCTCCAGGATCTCAGCCTTCTGCGAAGAGC
AGGGGTCACTTGGCAGCATCAGCCAGACAGTGGCCCGCCGCTGCCGCCCCCGCCATCCCCTGGCCCCCGGCC
TCACCCGGCGGCGCCCTCCTCCTGGGGGCCAGGCCCGCCGCTACACGGTGCTGAGCGTGGGTCCCGGAGGCCT
GCGCAGCGGGAGGCTGCCCTGCAGCCCCGCGTCCAGCTGGATGAGCGCGGCCGCGCAGCGCGGGACTTCTCGCT
ATGGCTGCGCCAGCCCGGCGCGCGGACGCCGGCGAGTACCGCGCCGCGGTGCACCTCAGGGACCGCGCCCTCTC
CTGCCGCTCCGTCTGCGCCTGGGCCAGGCCTCGATGACTGCCAGCCCCCAGGATCTCTCAGAGCCTCCGACTG
GGTCATTTTGAAGTGTCTCTTTCAGCCGCCCTGACCGCCAGCCTCTGTGCATTGGTTCCGGAACCGGGGCCAGGG
CCGAGTCCCTGTCCGGGAGTCCCCCATCACCACTTAGCGGAAAGCTTCTCTTCTGCCCAAGTCAGCCCCAT
GGACTCTGGGCCCTGGGGCTGCATCCTCACCTACAGAGATGGCTTCAACGTCTCCATCATGTATAACCTCACTGT
TCTGGGTCTGGAGCCCCCACTCCCTTGACAGTGTACGCTGGAGCAGGTTCCAGGGTGGGGCTGCCCTGCCGCT
GCCTGCTGGTGTGGGGACCGGTCTTTCTCTACTGCCAAGTGGACTCCTCCTGGGGGAGGCCCTGACCTCCTGGT
GACTGGAGACAATGGCGACTTTACCCTTCGACTAGAGGATGTGAGCCAGGCCAGGCTGGGACCTACACCTGCCA
TATCCATCTGCAGGAACAGCAGCTCAATGCCACTGTACATTGGCAATCATCACAGTGACTCCCAAATCCTTTGG
GTCACCTGGATCCCTGGGGAAGCTGCTTTGTGAGGTGACTCCAGTATCTGGACAAGAACGCTTTGTGTGGAGCTC
TCTGGACACCCATCCCAGAGGAGTTTCTCAGGACCTTGGCTGGAGGCACAGGAGGCCAGCTCCTTTCCAGCC
TTGGCAATGCCAGCTGTACCAGGGGGAGAGGCTTCTTGGAGCAGCAGTGTACTTCACAGAGCTGTCTAGCCCAGG
TGCCCAACGCTCTGGGAGAGCCCCAGGTGCCCTCCCAGCAGGCCACCTCCTGCTGTTTCTCACCTTGGTGTCTCT
TTCTCTGCTCCTTTTGGTGACTGGAGCCTTTGGCTTTCACCTTTGGAGAAGACAGTGGCGACCAAGACGATTTTC
TGCCTTAGAGCAAGGGATTACCCCTCCGCAGGCTCAGAGCAAGATAGAGGAGCTGGAGCAAGAACCGGAGCCGGA
GCCGGAGCCGGAACCGGAGCCCGAGCCCGAGCCCGAGCCGGAGCAGCTCTGACCTGGAGCTGAGGCAGCCAGCAG
ATCTCAGCAGCCAGTCCAAATAAACGTCTCTGTCTAGCAGC

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FIGURE 599

MWEAQFLGLLFLQPLWVAPVKPLQPGAEPVVWVAQEGAPQLPCSPTIPLQDLSLLRRAGVTWQHQPDSGPPAAA
PGHPLAPGPHPAAPSSWGPRPRRYTVLSVGPGLRSGRLPLQPRVQLDERGRQRGDFSLWLRPARRADAGEYRAA
VHLRDRALSCRLRLRLGQASMTASPPGSLRASDWILNCSFSRPDRPASVHWFRNRGQGRVPVRESPPHHLAESF
LFLPQVSPMDSGPWGCILTYRDGFNVSIMYNLTVLGLEPPTPLTVYAGAGSRVGLPCRLPAGVGTRSF LTAKWTP
PGGGPDLLVTGDNGDFTLRLEDVSQAQAGTYTCHIHLEQQQLNATVTLAIITVTPKSFGSPGSLGKLLCEVTPVS
GQERFVWSSLDTPSQRSFSGPWLEAQEAQLLSQPWQCQLYQGERLLGAAYFTLSSPGAQRSGRAPGALPAGHL
LLFLTGLVLSLLLLVTGAFGFHLWRRQWRPRRFSALEQGIHPRQAQTQDRGAGARTGAGAGAGTGARARARAGAA
LTWS

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FIGURE 600

GTTTTTCAGGCTCTTGGCGGTGAAGGTCAGAGTGCAGACCTGAGACCACTGCTCACCGACTTCAGACTCCAGTTTA
TCTGTGCCCCAGCTTCCTCACTTAGTCTCAGAAGACTTAGGCTGAGGCCTCAGAAGGAGATCTCCATCCTTTGTC
CAGAGCAGAACAGGATGGCCATGTCCCAGGAATCATTGACCTTCAAGGACGTGTTTGTGGACTTCACCTGGAGG
AGTGGCAGCAACTGGACTCTGCCCAGAAGAACCCTCTACAGGGATGTCATGCTTGAGAACTACAGCCACCTGGTGT
CCGTGGGGTATCTAGTTGCGAAGCCTGATGTGATCTTCAGGTTGGGACCAGGTGGAGAGTCCTGGATGGCAGATG
GGGGGACCCCGGTACGGACCTGTGCAGAAGTCTGGCAAGTTGATGAGCAGATAGATCACTACAAGGAAAGCCAAG
ACAAACTTCCTTGGCAAGCTGCATTTCATAGGCAAGGAAACACTGAAGGATGAAAGCGGTCAAGAATCCAGAACAT
GTAGAAAAGCATTATCTGAGCACAGAATTTGATTCTGTAAGGCAAAGACTCCCTAAATATTATTTCGTGGGAAA
AGGCATTCAAAACATCATTTAACTTTCTTGGTCAAAATGGAAGCTATGTAAGAAAGAAAGATGATGGATGTAAA
GCATATTGAAAGTATGCTTCCATTATAATCTTCATAAAGCTCAACCTGCAGAGAGATTTTTTGACCCTAATCAA
CGAGGGAAAGCCCTCCACCAAAGCAAGCCCTTAGAAAAAGTCAGAGAAGTCAAAGTGGGGAGAACTCTACAAA
TGTACTGAATGTGGAAGTGTGTTTATCCAGAAAGCAAACCTTAGTTGTACATCAAAGAACTCACACCGGAGAGAAA
CCTTATGAATGTGCGAATGTGCAAAAGCCTTCAGCCAGAAGTCAACCTCATAGCACACCAGAGAAGTCAACACA
GGGGAGAAGCCCTATGAATGCAGTGAATGTGGAAGAAACCTTTATCCAGAAGTCAACTCTGATTAAACATAAGAAA
ATTCATATGGAGAGAGACCCTATAAATGCAGTGTCTGTGAGAAAGCCTTCAGTAGGAAGTCAACTCTCATTAAAC
ATCAGATAATTCATATGGGAGAAACCTTATGAATGTAATAAATGTGGGAAATCTTTTAGTGTTAAATCAAGTCTC
ATTGTATGTCACAGAACATAAATGCATAAGTTGCATGCTATTGTGAATAGTGTGATGAAATTTTGCAGTGTCTG
CTCTTTCCTGCTCAGGATGCAATCAGTGAATCTTTTTTTTTTTTTTTTTTTTGTAGACAGAGTCTTGCTCTGTCAT
CCAAACTGGAGTGCAGTGGCACAATCTTGGCTCACTGCAACCTCCGCCTCTTGGGTTCAACCGATTCTCCTGCCT
CAACCTCCCAAATAGTTGGGATTACAGGCACATGCCACCATACGCAGCTAATTTGTATTTTGTAGAGACAGGG
TTTACCCTGTTGGCCAGCCTGGTCTTGAACCTCTGACCTCAAGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCT
GGGATTACAGGCATGAGCCACTGCACCCGGCTTGAATCATCCTTTTGTCCAGTATTATATCCATGCTGTATATGC
TACCCGCCCACTAGTCCCTTAGCTGTCTCAGTTGTCAGATTGACTGTCATGGGATTGCAGTGCTTGCAATAAAGC
TACCCTTATTGTATAATGACCCCAAAGTGCAAGAGTAGTGATGTTGGCAATTTGCATACACCAAAAATAAGTTAT
AAAGTGCTTCCTTAAAGTGAAATGGTTAAAGTTCTTGACTTAATAAAGAAAAAAATGTATGCTGAGGTTGTTAA
GATTTACAGTAAGAATGAATCTTCTATCCAGAAATTGTGAAGGAGGAAAAAGAACTTGTGCTAGTTTTGCTGTC
ACATCTGAAACTGCAAAAGTTGTGGCCACAGTGCATCATAAGTGCTAAGACGAAAAAGACATTAAATTTGCGGAT
GGAAGGCGTGAATAGAAATGGGTTCTGACAGCAATCAGGTTCCGTACTATTACAGTTTCAGGCATCCGCTAGGG
ATCTTGGAACATATCCCCATGGATAAGGGAGGGGTACTGTACCTTGTATATTGTGCATTAAAGAATTCATTGA
GTGTAATCATGTAAGTCTAACACACATTTAAAAAGCTCTCAGATATCATTTTCGCCTTCGGTTGATGTAAGAAAT
TCAAAGCTACTCAAATCATTCAATAAATGATAAAATTATTTAAAAA

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FIGURE 601

MAMSQESLTFKDVFDFTLEEWQQQLDSAQKNLYRDVMLENYSHLVSVGYLVAKPDVIFRLGPGGESWMADGGTPV
RTCAEVWQVDEQIDHYKESQDKLPWQAAFIGKETLKDESGQESRTC RKSIYLSFEFDSVRQLPKYYSWEKAFKT
SFKLSWSKWKLCCKER

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FIGURE 602

AGATTTCGCGGCCGCGTTCGACGGTGCGCCACCGGTCCCGCGGGCGCCCGCGGGACGCGCCGCCAGGGCCCTCTC
CGCCGGGGGCTCGGCGCTCGCCACCTCTTCCAAATTTAACCATTACCTAAATCCGAAGGGAAATGAGCAAACCT
CTCGGATTGGGTGTCAAGGTCTCCTCCGGGCTGGGGCTGAGCAAGCCCTCGGAGTGACCGTGGGTGACAGCGGCT
CCAGGGACTCTTGGGGCGCAGTGGGGAAAGTGCCGGACCACCATGCGCGCTCATTTCTCGTCAAAAGCAAGAAG
GCTCACAGCTACCACCAGCCGCGCTCCCCAGGACCAGACTATTCCCTCCGTTTAGAGAATGTACCGGCGCCTAGC
CGAGCAGACAGCACTTCAAATGCAGGCGGGGCGAAAGCGGAGCCCCGGGACCGTTTGTCCCCGAATCGCAGCTG
ACCGAAGCCCCAGACAGAGCCTCCGCATCCCCCAGACAGCTGCGAAGCAGCGTCTGCGAACGGAGCTCGGAGTTT
GAGGACTTCTGGAGGCCCCGTCACCTCCGCGTCTCCAGCCTCGGAGAAAGTCAATGTGCCATCGCTGGACGAA
GCCCAGCCCTTCCCCCTGCCTTTCAAACCGTACTCATGGAGCGGCCTGGCGGGTCTGACCTGCGGCACCTGGTG
CAGAGCTACCGACCGTGTGGGGCCCTGGAGCGTGGCGCTGGCCTGGGCTCTTCTGTGAACCCGCCCGGAGCCT
GGCCACCCGGCGCGCTGTACGGCCGAAGCGGGCTGCCGGCGCGCGGGGGCGGGGCGCCAGGGAACCTGCATC
GCAGGGGCCGCTGCCACCGCTGGCCCTGGCCTAGGGCTCTACGGCGACTTCGGGTCTGCGGCAGCCGGGCTGTAT
GAAAAGCCACGGCAGCGGGGCTTGCTGTACCCGAGCGTGGCCACCGGCTGCACGCAAACAAAGGCGCTGGC
GTCAAGGTGGAGTCGGAGCTGCTGTGCACCCGCTGCTGCTGGGCGGCGGCTCCTACAAGTGCATCAAGTGCAGC
AAGGTGTTTTCCACGCCGCACGGGCTCGAGGTGCACGTGCGCAGGTCCCACAGCGGTACCAGACCCTTTGCCTGC
GAGATGTGCGGCAAGACCTTCGGGCACGCGGTGAGCCTGGAGCAGCACAAAGCCGTGCACTCGCAGGAACGGAGC
TTTGACTGTAAGATCTGTGGGAAGAGCTTCAAGAGGTCAACACTGTCCACACACCTGCTTATCCACTCAGAC
ACTCGGCCCTACCCCTGTCACTACTGTGGCAAGAGGTTCACCAGAAGTCAGACATGAAGAAACACACTTTCATC
CACACTGGTGAGAAGCTTCAAGTGCCAGGTGTGCGGCAAGGCATTACGCCAGAGCTCCAACCTCATCACCCAC
AGCCGCAAACACACAGGCTTCAAGCCCTTCGGCTGCGACCTCTGTGGGAAGGGTTTTCCAGAGGAAGGTGGACCTC
CGAAGGCACCGGAGACGCAGCATGGGCTCAAATGAGCACCCCTGGCTGGCTGCAAGCAGCAGCTACACAACACTA
CAGAGGGCAGCCTCCCTGCTTGCCACCACTCTGCTCCCTGCTTGCTCCCTTCTGACTTTCCAGACCCCA
GGTCCAGTCTGCAGATCCTACCAGGTGCTCCTCCTTCGCCCTTACCTCCTGGAGCTGCCAGAAGAAATGAGGTAC
CTTTTCAAAGTGCAGCCGAGAGTGAGAACCAAGTGACTCCCTAGGCTTCGGACACAAATAGGCTCCTCTACACCT
GAAGACAAAGGCAAAGTCAAATGGGGACCAGAATAAATCTTAGACCCACAGTCCTTCCCATTTCCAGCCTTAAT
CTACAGACAGGAATGCCCTTACAGTTTCTTCCCTTCCCCCTTCTTGACCTACCCACAGATATTTGTGTGGAAGAGGA
GGAATCACCATTTACAAGGTGGACAAATGCTAATATTTTTATCTAGAAAGAAGAGTGAGTGTTAACTTTTATTTT
TTTCTTCTGGGGGTCTGTTGACTCCTTTCTTTTGGGTGCTGCCTATAAATCTTGAGGAATCATTTCTCCTCC
TCAAAAACCTGATTTCAGAACTGACTTGGGGAAGGAATTTAATACTTTGAAGTCATGAGATGCACCATCGAGGCTA
CCCCAAGAAGAAGCAGAAGAGAAGTTGGTAATGAGAGGGGATTAGAGGTCTCCTTTCAGTAGGGCTGTGAAAA
CCTCATCACTGGAGGTAAAAGCACAAGCAATGCCTGTGGACAAGATGTCATTCACTCAGCAAATGTTTCATG
GATCACCGGCTACCAAGTACCAGGCACCATGTTAGGTATTGGGGAAGAGAGACTGAAGTCACAACCCCTGACTGC
TCCTCAAAGCTAACGGTTGCACCTCCAAGTGGCTGGGTCTGTTCTTACTCTTGAGGGAATTCTGAGAAGACAG
CACAGAATTGTAAACCTTCCCTTTTGACCCTTTTGATTATTTATCAGGTGTAAACAAAAAGCTGAACAGTTACTTC
AAAGATATGTGTGTATATTAGTTTTTTATTGTTAAGCTGATATTTTAAAGATTTCTGAGCTAGCAGGCATGTGG
GAAGGAAGGCTCTGTCTTCAACTCTTGACCCTCCATGTGTACCATAGAGGGGGAAAGGTGGTATTTTCACTTT
GATGAGGTTGGTAAATGTTTTTAGATCTTCTGGTAAGCATTATGTTTGTAAATACATATTTATTAGAGTGATGTT
TTAAGTTAATAAAGTATTAAGAGTAAAAA

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FIGURE 603

MRSLVKS KKAHSYHQPRSPGPDYSLRLNVPAPSRADSTSNAGGAKAEPRDRLSPESQLTEAPDRASASPRQL
RSSVCERSSEFEDFWRPPSPSPASEKSMCPSLDEAQFFLPFKPYSWGLAGSDLRHLVQSYRPCGALERGAG
LGLFCEPAPEPGHPAALYGPKRAAGGAGAGAPGNCIAGAGATAGPGLGLYGDFGSAAAGLYEKPTAAAGLLYPER
GHR LHANKGAGVKVESELLCTRLLLGGGSYKCIKCSKVFSTPHGLEVHVRRSHSGTRPFACEMCGKTFGHAVSLE
AVHSQERSFDCKICGKSFKRSSTLSTHLLIHSDTRPYPCQYCGKRFBQKSDMKKHTFIHTGEKLHKCQVCGK
SSNLITHSRKHTGFKPFGCDLCGKGFQRKVDLRRHRETQHGLK

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FIGURE 604

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCCTGAGCTTCGCAATTCCTGTGTCGCCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTGCCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCTCTACAAGCTTTCCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCACTGCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCCGACGAGTTTGAAGTGCAGTACCGGCGG
GCATTGAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGATACTTTT
GTGGAATCTATGGGAACAATGCAGCAGCCGAGAGCCGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCCTGACG
GGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCACTCTTCAGTCGGAAATGACCAGACACTGACCATCCACTC
TACCCTCCCACCCCTTCTCTGCTCCACCACATCCTCCGTCCAGCCGCCATTGCCACCAGGAGAACCACTACATG
CAGCCCATGCCACCTGCCATCACAGGGTTGGGCCCAGATCTGGTCCCTTGACGCTAGTTTTCTAGAATTTATC
ACACTTCTGTGAGACCCCAACACCTCAGTTCCCTTGGCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAA
GGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGGGCAGGAGGGCCCTACCTGATTGGTGCAACCCCTTACCCCT
TAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTTGAAAGTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGA
TTGCCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGATCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCC
CTTTCCTTCCATCCCTACCCCTAAGAGCCATTTAGGGGCCACTTTTGACTAGGGATTTCAGGCTGCTTGGGATAA
AGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGACTGGCTAGAGTCCTCACTCCAGTCCAAATGTCTCCAG
AAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCT
AGGGTGGCCCTTGAGTTTACGACCAACCCTAGTCCCTTCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAA
CTGGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGGCCTCAGCTGCCTCACTTCCTACAAGAGCAGCCTGTGGCA
TCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAG
CTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGTA
GGGCTGACTAGAAGGGCCAGTCTGCTGGCCAGGCAGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGG
CTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTCAGGCCTCCCTCTCTCTTCTGCTCCACCCCTGGCCTGTCT
CATCCCCAGGGGTCCCAGCCACCCCGGGCTCTCTGCTGTACATATTTGAGACTAGTTTTTATTCTTGTGAAGAT
GATATACTATTTTTGTAAAGCGTGTCTGTATTTATGTGTGAGGAGCTGCTGGCTTGAGTGCAGTGCAGTGCAGTGGG
GAGCTGGTGGCCGGAATTGGACGGCCTGATGCTCCCTCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTCT
GGCTCCTGAGGGGCATCTGCCCCCTCCCCCAACCCCAACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTG
AAGGTGAAAGTGCAGTTCAGTAATAAACTGTGTTTACTCAGTGAIAAAAAAAAAAAAAAAAAA

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FIGURE 605

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGGWDTFVELYGNNAEAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

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FIGURE 606

AACACATTTTCATCTGGGCTTCTTAAATCTAAATCTTTAAATGACTAAGTTTTCTTCCTTTTCTCTGTTTTTCCT
AATAGTTGGGGCTTATATGACTCATGTGTGTTTCAATATGGAAATTATTGGAGGGAAAGAAGTGCACCTCATT
CAGGCCATTTATGGCCTCCATCCAGTATGGCGGACATCACGTTTGTGGAGGTGTTCTGATTGATCCACAGTGGGT
GCTGACAGCAGCCCACTGCCAATATCGGTTTACCAAAGGCCAGTCTCCCACTGTGGTTTTAGGCGCACACTCTCT
CTCAAAGAATGAGGCCTCCAAACAAACACTGGAGATCAAAAAATTTATACCATTCTCAAGAGTTACATCAGATCC
TCAATCAAATGATATCATGCTGGTTAAGCTTCAAACAGCCGCAAACTCAATAAACATGTCAAGATGCTCCACAT
AAGATCCAAAACCTCTCTTAGATCTGGAACCAAATGCAAGGTTACTGGCTGGGGAGCCACCGATCCAGATTCATT
AAGACCTTCTGACACCCTGCGAGAAGTCACTGTTACTGTCTAAGTCGAAAACTTTGCAACAGCCAAAGTTACTA
CAACGGCGACCCTTTTATCACCAAAGACATGGTCTGTGCAGGAGATGCCAAAGGCCAGAAGGATTCCTGTAAGGG
TGACTCAGGGGGCCCTTGATCTGTAAAGGTGTCTTCCACGCTATAGTCTCTGGAGGTCATGAATGTGGTGTTC
CACAAAGCCTGGAATCTACACCCTGTTAACCAAGAAATACCAGACTTGGATCAAAAGCAACCTTGTCCCGCCTCA
TACAAATTAAGTTACAAATAATTTTATTGGATGCACTTGCTTCTTTTTTCCTAATATGCTCGCAGGTTAGAGTTG
GGTGTAAAGTAAAGCAGAGCACATATGGGGTCCATTTTGCACCTGTAAGTCATTTTATTAAGGAATCAAGTTCTT
TTCACTTGTATCACTGATGTATTTCTACCATGCTGGTTTTATTCTAAATAAAATTTAGAAGACT

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FIGURE 607

MTKFSSFSLFFLIVGAYMTHVCFNMEIIGGKEVSPHSRPFMASIQYGGHHVCGGVLIDPQWVLTAHCQYRFTKG
QSPTVVLGAHSLSKNEASKQTLEIKKFIPFSRVTSDPQSNDIMLVKLQTAAKLNKHVKMLHIRSKTSLRSGTKCK
VTGWGATDPDSLRLPSDTLREVTVTVLSRKLCNSQSYNGDPFITKDMVCAGDAKGQKDSCKGDSGGPLICKGVFH
AIVSGGHECGVATKPGIYTLLTKKYQTWIKSNLVPPTHN

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FIGURE 608

GGGGCGACGTGAGCGCGCAGGGGGGCGGCGGCCTCGCCTCGTCTCTCTCTCTGCGCCTGGGTTCGGGTGGGTGACG
CCGAGAGCCAGAGAGATGTCGGATTTCGACAGTAACCCGTTTGCCGACCCGGATCTCAACAATCCCTTCAAGGAT
CCATCAGTTACACAAGTGACAAGAAATGTTCCACCAGGACTTGATGAATATAATCCATTCTCGGATTCTAGAACA
CCTCCACCAGGCGGTGTGAAGATGCCTAATGTACCCAATACACAACCAGCAATAATGAAACCAACAGAGGAACAT
CCAGCTTATACACAGATTGCAAAGGAACATGCATTGGCCCAAGCTGAACTTCTTAAGCGCCAGGAAGAAGTAGAA
AGAAAAGCCCGAGAATTAGATCGTCGGGAACGAGAAATGCAAAACCTCAGTCAACATGGTAGAAAAAATAATTGG
CCACCTCTTCCTAGCAATTTTCTGTGCGGACCTTGTTTCTATCAGGATTTTCTGTAGACATTCTGTAGAATTC
CAAAAGACAGTAAAGCTTATGTACTACTTGTGGATGTTCCATGCAGTAACACTGTTTCTAAATATCTTCGGATGC
TTGGCTTGGTTTTGTGTTGATTCTGCAAGAGCGGTTGATTTTGGATTGAGTATCCTGTGGTTCCTTGCTTTTTACT
CCTTGTTCAATTTGTCTGTTGGTACAGACCACTTTATGGAGCTTTCAGGAGTGACAGTTTCATTTAGATTCTTTGTA
TTCTTCTTCGTCTATATTTGTCTAGTTTGTCTGTACTTCCAAAGCTGCAGGATTTTCATAACTGGGGCAATTGT
GGTTGGATTTTCATCCCTTACTGGTCTCAACCAAAATATTCCTGTTGGAATCATGATGATAATCATAGCAGCACTT
TTCACAGCATCAGCAGTCATCTCACTAGTTATGTTCAAAAAAGTACATGGACTATATCGCACAAACAGGTGCTAGT
TTTGAGAAGGCCCAACAGGAGTTTGCAACAGGTGTGATGTCCAACAAAAGTGTCCAGACCCGAGCTGCAAATGCA
GCTTCAACTGCAGCATCTAGTGCAGCTCAGAATGCTTTCAAGGGTAACCAGATTTAAGAATCTTCAAACAATACA
CTGTTACCTTTTGTACTGTACCTTTTTCTCCAGTTACTGTATTCTACAAATATTTTTATGTTCAAACACACAGTA
CAGACAGCATGGATATTTCTGTTCACCTTGTGCATGGGCTAAAACCAGGAAAAGTTCCTTGTCTTATTACTTTAC
CTAATAGTTTCTTAATATTTTCAAGTCCCCCTTGCAAAAAAATATTACATGCTAAATAAATATTCTCCATATTTTT
GGGGGATGACATTCAGTGAATTATTTCAAGTGGTGACCCACTGAAAATTAATAATGGTACTTATGATTAAAAACGC
ATTTAATACTAACTGCAGTAGTTCTTTCAAGAATCTTTAGAGATAAGGATTGCACATTGGAAGGTAACCATGT
TTCATTCCTTTTTCCCTATTTATATTGAAAGAAATAGGCCAGCAGAGACTTAGGGATTTTAAATTGGCTTGCTTT
TTAGCTGTTTCAGTCACCAGTGAAGAGCCTATGTGCATTTTGTAGTAGATAATGTAAAATTTGTCATCTTTTTCT
TTTCTTTTTTTTGAATAGCTGATATTTTGATAACAATCTCTAATTTGCATGGGCACCACATTTCTTATATTAA
AGAATTAGTGTTTTGGCTTCTGTACTGCTTATGGTTGTAGGATTGAGGGTTAATGGAATCACAGAAATGATATT
CTGCAAGAATTTCTTTTAAATAAAAAGTTTGGGGGTGCAATATAAGAAGTTTATATAATATGCAGTACATTATCC
AAAAGAGAAGGTAGTTAATGCAGTAGAAAGTAGTGGTAATAATTCCTTTTT

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FIGURE 609

MSDFDSNPFADPDLNPNFKDPSVTQVTRNVPPGLDEYNPFSDSRTPPPGGVKMPNVPNTQPAIMKPTEEHPAYTQ
IAKEHALAQAELLKRQEELERKAAELDRREREMQNLSQHGRKNNWPPLPSNFPVGPCFYQDFSVDIPVEFQKTVK
LMYYLWMFHAVTLFLNIFGCLAWFCVDSARAVDFGLSILWFLLFTPCSFVCWYRPLYGAFRSDSSFRFFVFFFVY
TCQFAVHVLQAAGFHNWGNCGWISSLTGLNQNIPVGIMMIIAALFTASAVISLVMFKKVHGLYRTTGASFKAQ
ATGVMSNKTVQTAAANAASTAASSAAQNAFKGNQI

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FIGURE 610

GGGAGGCGTGAGCCACCGCGCCTGTCCAGGAATCAGTTTTTTTCCAACAAGTTTTTGGACTCCACTTTGAGAAATC
CTGACCTGCACTATGCCTGAAACACTCCAAAGGGGGTGCTGATCTGGAGACAGATCTGTCCTGGGACCTGTTTCA
GCCCTGTCAGCTCCTGGTGGCTGAGTTGAAGGGTGTGGCCCCAAAGGCAGGGCAAAGCTAGCTTCTGGGTTTCCTT
CAGCCCCCTGCAAGGTTTGGGACTCTGTCCACAGGTCCAGACCCAGTACTTATTATGAACTGTGGGGGTGCATCC
TGGTGCCAGCACTGAGGAAGTTAAACGAGCTTTCTTCTCCAAGTCCAAAGAGGTACCCGTACCCCTGAGGTGGGG
AGGGGGAGCAGGAACTTTGAGCCAGTGGGGGTGTGCTTCAAATTCCCAGGAGTAGACCAGCATCTCTGGTGGGTG
CCACATTTTTTTCAGCCCTCATAGGGAGTGGCAGGTGCTCAATGGTAGGGGAAAGGCTGTGGGCAGGAGCCAGGGG
TCCTGTCTGATGGGCTGGGCTTGGTTTTCTTGACCTGCCTGCCTGCTCTTGAGAAACCTGGACCAGGGCATATGG
TGAATGCAGGGGGCTGGCAGGTGGGGAGGGCTTGAACACAGGAGGAAGCAGGAGTCCATGCTCTCTGGCCTTCTG
AGGAGTGGGCAGGCCTGAGTGAGGGTCACTGACCAGGCAGGGCCTCTGGGTATGACTGGAGCCCTGGTGGGTGGA
TGTCATCAGCATGGGTCTGGGGAGGGACAGGCAAAGGGAGATAAGGGGAGTCCTGCCCCACCCAGCTGCACCC
AGACCGGGACCTGGGAACCCAAGCCTGCACAGCCGCTTTGTGGAGCTGAGCGAGGCATACCGTGTGCTCAGCCG
TGAGCAGAGCCGCCGCAGCTATGATGACCAGCTCCGCTCAGGTAGTCCCCCAAAGTCTCCACGAACCACAGTCCA
TGACAAGTCTGCCACCAAACACACAGCTCCTGGACACCCCCCAACGCACAGTACTGGTCCCAGTTTACAGCGT
GAGGCCACAGGGGGCCCCAGTTGAGGCAGCAGCAACACAAACAAACAAACAAGTGCTGGGGTACTGCCTCCTCCT
CATGCTGGCGGGCATGGGCCTGCACTACATTGCCTTCAGGTAGATGCCTGTTCTCCCCGGGGTGATGGGGCAAAGGG
CAGGAGGGTGGGTGAATTCCAGTGTGGTCAGCCAGTCCTCCACAGCACCTCGTGGCCCGTACTCTTGTTGCTCTC
AAGCTAAACTGCTTGAAGTTGGTCTCTGGACCTCTCCTTACTTATTAAAGGCAGCGCTGCACCAAAAAAAAAA
AAAAA

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FIGURE 611

MGPGEQAKGDKGSPAPPQLHPDRDPGNPSLHSRFVELSEAYRVLSREQSRRSYDDQLRSGSPPKSPRTTVHDKS
AHQTHSSWTTPNAQYWSQFHSVRPQGPQLRQQQHKQNKQVLGYCLLLMLAGMGLHYIAFR

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FIGURE 612

GGGCTGCTCCACGCTTTTGCCGGAGACAGAGACTGACATGAACAGGGGAAGGGCCTGGCTGTCCTCATCCTGGC
TATCATTCTTCTTCAAGGTACTTTGGCCCAGTCAATCAAAGGAAACCACTTGGTTAAGGTGTATGACTATCAAGA
AGATGGTTCGGTACTTCTGACTTGTGATGCAGAAGCCAAAAATATCACATGGTTTAAAGATGGGAAGATGATCGG
CTTCCTAACTGAAGATAAAAAAATGGAATCTGGGAAGTAATGCCAAGGACCCTCGAGGGATGTATCAGTGTA
AGGATCACAGAACAAAGTCAAAACCACTCCAAGTGTATTACAGAATGTGTCAGAACTGCATTGAACTAAATGCAGC
CACCATACTGGCTTTCTCTTTGCTGAAATCGTCAGCATTTCGTCCTTGCTGTTGGGGTCTACTTCATTGCTGG
ACAGGATGGAGTTCGCCAGTCGAGAGCTTCAGACAAGCAGACTCTGTTGCCCAATGACCAGCTCTACCAGCCCCT
CAAGGATCGAGAAGATGACCAGTACAGCCACCTTCAAGGAAACCACTTGAGGAGGAATTGAACTCAGGACTCAGA
GTAGTCCAGGTGTTCTCCTCTATTTCAGTTCCCAGAATCAAAGCAATGCATTTTGGAAAGCTCCTAGCAGAGAGA
CTTTCAGCCCTAAATCTAGACTCAAGGTTCCCAGAGATGACAAATGGAGAAGAAAGGCCATCAGAGCAAATTTGG
GGGTTTCTCAAATAAAATAAAATAAAACAAATACTGTGTTTTCAGAAGCGCCACCTATTGGGGAAAATTGT

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FIGURE 613

MEQGKGLAVLILAIILLQGTLAQSIKGNHLVKVYDYQEDGSVLLTCDAEAKNITWFKDGKMIGFLTEDKKKWNLG
SNAKDPRGMYQCKGSQNKSKPLQVYYRMCQNCIELNAATISGFLFAEIVSIFVLAVGVYFIAQDGVQRQSRASDK
QTLLPNDQLYQPLKDREDDQYSHLQGNQLRRN

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FIGURE 615

MILSSYNTIQSVFCCCCCSVQKRQMRQTQISLSTDEELPEKYTQHRRPWLSQLSNKKQSNITGRVQPSKRKPLPPL
P2SEVAEEKIQVKALYDFLPREPCNLALRRAEYLILEKYNPHWWKARDRLGNEGLIPSNYVTENKITNLEIYEW
YHRNITRNQAEHLLRQESKEGAFIVRDSRHLGSYTISVFMGARRSTEAAIKHYQIKKND SGQWYVAERHAFQSIP
ELIWIYHQHNAAGLMTRLRYPVGLMGSCLPATAGFSYEKWEIDPSELAFIKEIGSGQFGVVHLGEWRSHIQVAIKA
SMSEEDFIEEAKVMMKLSHSLVQLYGVCIQRKPLYIVTEFMENGCLLNYLRENKGKLRKEMLLSVCQDIC
ERNGYIHRDLAARNCLVSSTCIVKISDFGMTRYVLDDEYVSSFGAKFPIKWSPPEVFLFNKYSSKSDVW
OLMWEVFTTEGKMPFENKSNLQVVEAISEGFRLYRPHLAPMSIYEVMYSCWHEKPEGRPTFAELLRAVTEIAE

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FIGURE 616

ATGTGGTGGAGAGTTCTCAGCTTGCTGGCATGGTTCCCCTTGCAAGAGGCCCTCTCTGACTAACCACACAGAAACC
ATCACCGTGGAGGAAGGCCAGACGCTCACTCTAAAGTGTGTCACTTCTCTGAGGAAGAACTCCTCCCTCCAGTGG
CTGACCCCTTCAGGGTTCACCATTTTTTTAAATGAGTATCCTGCTTTAAAAAATTCCAAATACCAGCTTCTTCAT
CACTCGGCCAATCAGCTCTCCATCACTGTGCCTAACGTAACCGTGCAAGATGAAGGCGTGTAAGTGCTTACAT
TACAGCGACTCTGTAAGCACAAAGGAAGTGAAAGTGATTGTGCTGGCAACTCCTTTCAAGCCAATCCTGGAAGCT
TCAGTTATCAGAAAGCAAAATGGAGAAGAACATGTTGTACTCATGTGCTCCACCATGAGAAGCAAGCCCCCTCCG
CAGATAACCTGGCTACTTGGGAATAGCATGGAAGTGTCGGTGGAACGCTCCATGAATTTGAAACTGATGGGAAG
AAATGTAATACTACCAGCACTCTCATAATCCACACTTATGGCAAAAATTC AACGGTGGACTGCATTATCCGACAC
AGAGGCCCTGCAAGGGAGAAAAGTAGTAGCACCCCTTCCGGTTTGAAGATTTGGTTACTGATGAAGAGACAGCTTCA
GATGCTCTGGAGAGAACTCTCTATCCTCTCAAGACCCACAGCAGCCCACCAGTACTGTCTCAGTAACGGAAGAT
TCTAGTACATCGGAGATTGACAAGGAAGAGAAAAGAACAAACCACTCAAGATCCTGACTTGACCACCGAAGCAAAAT
CCTCAGTATTTAGGACTGGCAAGAAAGAAAAGTGGCATCCTGCTGCTCACGCTGGTGTCTTCTCATTTCATA
CTCTTCATCATAGTCCAGCTCTTCATCATGAAGCTGAGGAAAGCACATGTGATATGGAAGAGAGAAAACGAAGTT
TCAGAACACACACTAGAAAGTTACAGATCAAGGTCAAATAATGAAGAAACATCATCTGAAGAGAAAAATGGCCAA
TCTTCCCACCTATGCGTTGCATGAAGTACATCACAAAGTTGTACTCAGAAGCAAAAACAAAGAGGAAGGAAAAT
GTACAACATTCAAATTAGAAGAAAAGCACATCCAAGTACCAGAGAGTATTGTGTAGTGCTCTCTGCAATGGAAC
ATGTGATTTTCAGGGTTGCCGAGTGTACCTCAGTGGACCAGCCTGGGGGAAGGAGCTTAATTGCTGAGACATTA
ATAATGACCTCTTAGTGCAATGCAAGATGGTGTCTCGGATAATGATCTGCCCGGAGCTAGGGCAGCAACATGA
GGACCAAACCATGCACATAAAGCTTGTAGTTTAAAAAAGAAAAGCAAAAAATAATTATGCCTGACACTACTTCA
GAGCAGGAGGATTCTACGAAGCCTTGGGGATCAGGGTCAGTGTGAGCAGCTAACATCCTACCTCAAATGGAACAG
GATTTTTTGATGCTTTGCTCTAATGGAAGTGTTTAAAAATTTTTTTTTCTTTTTAATATTTTCTTCTGGTCACA
AAATAAGAAATTTGGGATGCAAAGTACCTAAAGATCTCTGATCCTAAGAAGTTACTTCTGGCCAGGCGCGGTGG
CTCATGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGTAGGCAGATCACTTGAGGTCAGGAGTTGGAGACCAGCC
TGGCCAACATAGTGAAACCCCGTCTCTACTAAAAATGCAAAAATTAGCCAGGCGTAGTGGTGCGCACCTGTAGTC
TCAGATACTTGGGAGGCTGAGGGTGGAGAATCGCTTGAACCTGGGAGGTGGAGATTGCAGTGAGTCAAGATCTCA
CCACTGAACTCCAGCCTGGGCGACAGAGGGAGACTCTGTCTCAAAAAAAGAAGTTACTTCCAAGACAGACTTT
TAACATGTAACCAGCACAAAGCAATGTCAGGGAGGAGTGATACATGACAATAAATGAGTCAGATGAGCAAGAAGG
CCCCAGAACCCATGCCCCAAGGCACAAAGAGGAGCTCAGGGTAGGCCCAAAGATTTCGAATTCCTTAGATTACTAA
ATCACATGAGCGGACCTTGTCTGTGATAGATAAGATTTTACCTGGAAATTCCATGACCAATACATGTGCAAAAGAA
AATGATGGGTTGAATTTACTGATTATTGACCTAATGGATGGCTTTTTTAAATGTTTTAATAAAAAGCAGAATAGA
TGTTTGTTTTTCTAGTGGTTATACCAAGCTATACTTCCTGTTTTACGTGTGAAAGTAACATGGGACATGCCTTT
CTTTTCCGATCAGTTTATTTAAGCTATACAGCAAACCTTTGGCATTATGTGGAGCATTTCTCATTGTTGGAATCT
GAATAAACCAATTACAAAATAAAAA

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FIGURE 617

MWWRVLSLLAWFPLQEASLTNHTETITVEEGQTLTLKCVTS LRKNSSLQWLTPSGFTIFLNEYPA LKNSKYQLLH
HSANQLSITVPNVTLQDEGVYKCLHYSDSVSTKEVKVIVLATPFKPILEASVIRKQNGEEHVLMCSTMR SKPPP
QITWLLGNSMEVSGGTLHEFETDGKKCNTTSTLIIHTYGKNSTVDCIIRHRGLQGRKLVAPFRFEDLVTDEETAS
DALERNLSLSSQDPQOPTSTVSVTEDSSTSEIDKEEKEQTTQDPDLTTEANPQYLGLARKKSGILL LTLVSFLIFI
LFIIIVQLFIMKLRKAHVWKRENEVSEHTLESYRSRSNNEETSSEEKNGQSSHPMRCMNYITKLYSEAKTKRKEN
VQHSKLEEKHIQVPESIV

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FIGURE 618

AGCCGCTGAGAGGCTCTGCGTGTGCGTGTGCGCGGGTGACGCCGTGTGTGTGCGAGTGTGTGTGTGTGTGTGCGC
GCGCGCGTGTGAGAGAGAGAAAGGGAGAGAGAGAGGGGGACTCTGTGTGAGGGAAAGAAAACAATTTCTCCTGCT
CTGCAGCTTCTGTTCAAGGATCAATGTGACTCTAAGAACAAATGGATGAATGAATATCCATATGAAGAGAAAAACA
ATAAAGAATATCAACACCTTTGAGAACAGAATGTTAATGCTTGATGGGATGCCGGCAGTCAGAGTCAAAACAGAG
CTTTTGGAATCTGAACAAGGGTCTCCAAACGTCCACAACCTATCCCGATATGGAAGCCGTTCCCCTGTTGCTAAAT
AATGTGAAAGGGGAGCCCCCGGAGGACTCGTTATCTGTAGATCACTTCCAAACACAACTGAGCCAGTGGACTTG
TCAATAAACAAAGCCAGGACGTCCCCTACTGCCGTTTTCATCCTCCCCAGTTTCCATGACAGCATCTGCCTCCTCA
CCTTCTTCAACTTCAACCTCTTCATCGTCTTCTAGTCGTCTAGCCTCATCCCCAACTGTTATCACATCAGTATCT
TCAGCGTCATCTTCGTCAACAGTATTAACCTCCAGGGCCCCCTTGTGGCCTCTGCATCTGGTGTGGAGGCCAGCAG
TTTTTGCACATTATCCATCCCGTACCGCCTTCAAGTCCCATGAATTTACAGTCTAACAACTGAGTCATGTTTAC
CGCATCCCCGTGGTGGTACAGTCGGTGCCTGTTGTCTACACAGCTGTAAGGTCACCTGGAAATGTGAACAACACT
ATTGTCGTGCCGCTTTTGGAGGATGGGAGAGGCCATGGCAAAGCACAAATGGACCCCCGAGGCCTATCTCCCAGA
CAAAGTAAAAGTGACAGTGATGATGATGACCTGCCAAATGTGACCTTAGATAGCGTTAATGAACTGGATCTACG
GCCCCTTCCATAGCCAGAGCAGTACAAGAGTAAGTATCACATTCACAGGATGAATTAAGAATTGCCAAGGTGTTT
AATGGATAATGGAACTGCAGCATCTCCTGTCCCCCAGCCATGTCATTCTAGCTGTGAAGTGGCACGAATGTCAG
CAGCTTTTCATTACAGCTGAATGCTCTTTGGGAGATTAGGGCAGAGAATGGAGTGTTTTAATGAGTTGGAAATTCA
TGCTTTGATGAGATATAAGACCTATGTGCATCTTTTCTAATACCTCCTGCACCCTTCTCCTGAACCTCTGCAAAAA
AAAAAAAATTGTTATTTTTGAATGTCACTATTTGATTATCATCATCATTATTATTACACAAAGTCAAGGGAAATA
TGGCAAAGTATTGTTATCTTGTTTTGATAGGAAATTACAGAATAGCTTTTTTGAAGATTTAAATTTGGAAAATAA
TATGTTTCATCCTTTGAAAAGTAGTACTCATATGTTATTTTTAAATGAATCTTTTCTCTGTCCTTTTACCTGGACC
GCAGGGTTAGATTTACGCCCTCGTTTATTGAAAATAGCTGCTTTTCTATCAGTCAACCTTGTACCTAGAATTGAA
CCTAAATGATTGAAAAA

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FIGURE 619

MNIHMKRRTIKNINTFENRMLMLDGMPAVRVKTELLESEQSPNVHNYPDMEAVPLLLNNVKGEPPEDSLSDHF
QTQTEPVDLSINKARTSPTAVSSSPVSMTASASSPSSTSTSSSSSSRLASSPTVITSVSSASSSSTVLTGGLVA
SASGVGGQQFLHIIHPVPPSSPMNLQSNKLSHVHRIPVVVQSVPVVYTAVRSPGNVNTIVVPLEDGRGHGKAQ
MDPRGLSPRQSKSDSDDDDLPNVTLDVNETGSTALSIAVAQEVHPSPVSRVRGNRMNNQKFPCSI SPFSIEST
RRQRRSESPDSRKRIHRCDFEGCNKVYTKSSHLKAHRRTHTEKPYKCTWEGCTWKFARSDELTRHYRKHTGVK
PFKADCDSFSRSDHLALHRRRHMLV

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FIGURE 620

GCCCCATCTCCTTGGGCTGCCCGTGCTTCGTGCTTTGGACTACCGCCCAGCAGTGTCTTGCCCTCTGCCTGGGCC
TCGGTCCCTCCTGCACCTGCTGCCTGGATCCCCGGCCTGCCTGGGCCTGGGCCTTGTTCTCCCCATGACACCAC
CTGAACGTCTCTTCCTCCCAAGGGTGTGTGGCACCACCCTACACCTCCTCCTTCTGGGGCTGCTGGTTCTGC
TGCCTGGGGCCCAGGGGCTCCCTGGTGTGGCCTCACACCTTCAGCTGCCCAGACTGCCCGTCAGCACCCCAAGA
TGCATCTTGCCCAACAGCACCCCTCAAACCTGCTGCTCACCTCATTGGAGACCCCAGCAAGCAGAATCACTGCTCT
GGAGAGCAAACACGGACCGTGCTTCCTCCAGGATGGTTTCTCCTTGAGCAACAATTCTCTCCTGGTCCCCACCA
GTGGCATCTACTTCGTCTACTCCCAGGTGGTCTTCTCTGGGAAAGCCTACTCTCCCAAGGCCACCTCCTCCCCAC
TCTACCTGGCCCATGAGGTCCAGCTCTTCTCCTCCCAGTACCCCTTCCATGTGCCTCTCCTCAGCTCCCAGAAGA
TGGTGTATCCAGGGCTGCAGGAACCCTGGCTGCACTCGATGTACCACGGGGCTGCGTTCCAGCTCACCAGGGAG
ACCAGCTATCCACCCACACAGATGGCATCCCCACCTAGTCCTCAGCCCTAGTACTGTCTTCTTTGGAGCCTTCG
CTCTGTAGAACTTGGAATAATCCAGAAAGAAAAATAATTGATTTCAAGACCTTCTCCCCATTCTGCCTCCATTC
TGACCATTTCAGGGGTCGTCAACACCTCTCCTTTGGCCATTCCAACAGCTCAAGTCTTCCCTGATCAAGTCACCG
GAGCTTTCAAAGAAGGAATTCTAGGCATCCCAGGGGACCACACCTCCCTGAACCATCCCTGATGTCTGTCTGGCT
GAGGATTTCAAGCCTGCCTAGGAATTCCCAGCCCAAAGCTGTTGGTCTGTCCCACCAGCTAGGTGGGGCCTAGAT
CCACACACAGAGGAAGAGCAGGCACATGGAGGAGCTTGGGGGATGACTAGAGGCAGGGAGGGGACTATTTATGAA
GGCAAAAAAATTAAATTATTTATTTATGGAGGATGGAGAGAGGGGAATAATAGAAGAACATCCAAGGAGAAACAG
AGACAGGCCCAAGAGATGAAGAGTGAGAGGGCATGCGCACAAGGCTGACCAAGAGAGAAAGAAGTAGGCATGAGG
GATCACAGGGCCCCAGAAGGCAGGGAAAGGCTCTGAAAGCCAGCTGCCGACCAGAGCCCCACACGGAGGCATCTG
CACCTCGATGAAGCCCAATAAACCTCTTTTCTCTG

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FIGURE 621

MTPPERLFLPRVCGTTLHLLLLGLLLVLPGAQGLPGVGLTPSAAQTARQHPKMHLAHSTLKPAHLIGDPSKQN
SLLWRANTDRAFLQDGFSLNNSLLVPTSGIYFVYSQVVFSGKAYSPKATSSPLYLAHEVQLFSSQYPFHVPLLS
SQKMVYFGLQEPWLHSMYHGAAFQLTQGDQLSTHTDGIPHLVLSPSTVFFGAFAL

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FIGURE 622

GTTTCAGCGCCGCGCCGGTGTGCGAGCCGCGGCAGAGTGAGGCAGGCAACCCGAGGTGCGGAGCGACCTGCGGAG
GCTGAGCCCCGCTTTCTCCAGGGTTTCTTATCAGCCAGCCGCCGCTGTCCCCGGGGAGTAGGAGGCTCCTGAC
AGGCCGCGGCTGTCTGTGTCTTCTGAGTGTGAGAGGAACGGCCAGACCCCGCGGGCCGGAGCAGAACGCGGC
CAGGGCAGAAAGCGGCGGCAGGAGAAGCAGGCAGGGGGCCGGAGGACGCAGACCGAGACCCGAGGCGGAGGCGGA
CCGCGAGCCGGCCATGTCGGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGCTACATCGCGGTAGCCCCGGGCCG
GGGCATCGAGACCATCGCCAATGAGTTCAGCGACCCGTGCACCCCGTCAGTCATATCATTGGATCAAAAAATAG
AACAAATCGGAGTTGCAGCCAAAAATCAGCAAATCACTCATGCAAACAATACGGTGTCTAACTTCAAAAGATTTC
TGGCCGAGCATTCAACGACCCCTTCATTCAAAAGGAGAAGGAAAACTTGAGTTACGATTGGTTCCATTGAAAA
TGGTGGAGTTGGAATAAAGGTAATGTACATGGGTGAAGAACATCTATTTAGTGTGGAGCAGATAACAGCCATGTT
GTTGACTAAGCTGAAGGAACTGTGAAAACAGCCTCAAGAAACCAGTAACAGATTGTGTTATTTAGTCCCCTC
CTTCTTTACAGATGCTGAGAGGCGATCTGTGTTAGATGCTGCACAGATTGTTGGCCTAAACTGTTTAAAGACTTAT
GAATGACATGACAGCTGTTGCTTTGAATTACGGAATTTATAAGCAGGATCTCCCAAGCCTGGATGAGAAACCTCG
GATAGTGGTTTTTGTGATATGGGACATTGAGCTTTTCAAGTGTCTGCTTGTGCTTTTAAAGGAAAAATTGAA
GGTACTGGGAACAGCTTTTGTATCCTTTCTTAGGAGGAAAAAACTTCGATGAAAAGTTAGTGGAACATTTCTGTGC
AGAATTTAAACTAAGTACAAGTTGGATGCAAAATCCAAAATACGAGCACTCCTACGTCTGTATCAGGAATGTGA
AAAAGTGAAGAAAGCTAATGAGCTCTAACAGCACAGACCTTCCACTGAATATCGAATGCTTTATGAATGATAAAGA
TGTTTTCCGGAAAGATGAACAGGTCACAATTTGAAGAACTCTGTGCTGAACCTCTGCAAAAGATAGAAGTACCCCT
TTATTCAGTGTGGAACAACTCATCTCAAAGTAGAAGATGTGAGTGCAGTTGAGATTGTTGGAGGCGCTACACG
AATTCCAGCTGTGAAGGAAAGAATTGCCAAATCTTTGGAAAAGATATTAGCACAACTCAATGCAGATGAAGC
AGTAGCCAGAGGATGTGCATTACAGTGTGCAATACCTTCCCGGCCATTTAAAGTTAGAGAATTTCCGTCACAGA
TGCAGTTCCTTTTCCAATATCTCTGATCTGGAACCATGATTGAGAAGATACTGAAGGTGTTTCATGAAGTCTTTAG
TCGAAACCATGCTGCTCCTTTCTCCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTTTTGGAGCTAGAAGCTTTCTA
TTCTGATCCCCAAGGAGTTCCATATCCAGAAGCAAAATAGGCCGCTTTGTAGTTGAGAATGTTTCTGCACAGAA
AGATGGAGAAAAATCTAGAGTAAAAGTCAAAGTGCAGTCAACACCCATGGCATTTCACCATCTCTACGGCATC
TATGGTGGAGAAAGTCCCAACTGAGGAGAATGAAATGTCTTCTGAAGCTGACATGGAGTGTCTGAATCAGAGACC
ACCAGAAAACCCAGACACTGATGCAAAATGAAAAAAAGTTGACCAGCCTCCAGAAGCTAAAAAGCCCAAAATAAA
GGTGGTGAATGTTGAGCTGCCTATTGAAGCCAACCTGGTCTGGCAGTTAGGGAAGACCTTCTTAACATGTATAT
TGAGACAGAGGGTAAGATGATAATGCAAGATAAATTGGAAGAAAGGAATGATGCTAAAAATGCAGTTGAGGA
ATATGTGTATGAGTTCAGAGACAAGCTGTGTGGACCATATGAAAAATTTATATGTGAGCAGGATCATCAAAATTT
TTTGAGACTCCTCACAGAACTGAAGACTGGCTGTATGAAGAAGGAGAGGACCAAGCTAAACAAGCATATGTTGA
CAAGTTGGAAGAATTAATGAAAATTTGGCACTCCAGTTAAAGTTCGGTTTCAGGAAGCTGAAGAACGGCCAAAAAT
GTTTGAAGAACTAGGACAGAGGCTGCAGCATTATGCCAAGATAGCAGCTGACTTCAGAAATAAGGATGAGAAATA
CAACCATATTGATGAGTCTGAAATGAAAAAGTGGAGAAGTCTGTAAATGAAGTGATGGAATGGATGAATAATGT
CATGAATGCTCAGGCTAAAAAGAGTCTTGATCAGGATCCAGTTGTACGTGCTCAGGAAATTTAAACAAAAATCAA
GGAATTGAACAACACATGTGAACCCGTTGTAACACAACCGAAACCAAAATTTGAATCACCCAACTGGAAAGAAC
TCCAAATGGCCCAATATTGATAAAAAGGAAGAAGATTTAGAAGACAAAAACAATTTTGGTGCTGAACCTCCACA
TCAGAATGGTGAATGTTACCTAATGAGAAAAATTCTGTAAATATGGACTTGGACTAGATAACCTTAAATTGGCC
TATTCCTTCAATTAATAAAATATTTTTGCCATAGTATGTGACTCTACATAACATACTGAAACTATTTATATTTT
TTTTTTAAGGATATTTAGAAATTTTGTGTATTATATGGAAGAAAGAAAAAGCTTAAGTCTGTAGTCTTTATGAT
CCTAAAGGGAATTTGCCTTGGTAACTTTAGATTCTGTGGAATTTGGAATTCATACTAAGCTTTCTGTGCAG
TCTACCATTTGCATCACTGAGGATGAACTGACTTTTGTCTTTTGGAGAAAAAACTGTACTGTTGTTCAAGA
GGGCTGTGATTAAATCTTTAAGCATTTGTTTCTGCAAGGTAGTTTCTTGCAATTTGCTCTCCATTACAGCATG
TGTGTGGGTGTGGATGTTTATAACAAGACTAAGTCTGACTTCATAAGGGCTTTCTAAAACCATTTCTGTCCAAG
AGAAAATGACTTTTTGCTTTGATATTAATAAATTCATGAGTAAACAAAAGCTAGTCAAATGTGTTAGCAGCATG
CAGAACAAAACTTTAACTTTCTCTCTCACTATACAGTATATTGTCAATGTGAAAGTGTGGAATGGAAGAAATG
TCGATCCTGTTGTAACATGATTGTGAACACTTTTATGAGCTTTAAAAATAAGTTTCATCTTATGGTGTCAATTTCT

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FIGURE 623

MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQITHANNTVSNFKRFHGRAF
NDPFIQKEKENLSYDLVPLKNGGVGIKVMYMGEHLFSVEQITAMLLTKLKETAENSLKKPVTDCVISVPSFFTD
AERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLP SLDEKPRIVVFVDMGHS AFQVSACAFNKGKLVLT
AFDPFLGGKNFDEKLVEHFCAEFKTKYKLDASKIRALLRLYQECEKLKKLMSSNSTDLPLNIECFMNDKDVSGK
MNRSQFEELCAELLQKIEVPLYSLLEQTHLKVEDVSAVEIVGGATRIPAVKERIAKFFGKDISTTLNADEAVARG
CALQCAILSPAFAKVRFSVTDVAVFPISLIWNHDS EDTGVHEVFSRNHAAPFSKVLTFLLRGPFELEAFYSDPQ
GVPYPEAKIGRFVQNVSAQKDGEKSRVKVKVRVNTHGIFTISTASMVEKVPTEENEMSSEADMECLNQRPPENP
DTDANEKKVDQPPEAKPKIKVVNVELPIEANLVWQLGKDLLMYIETEGKMIMQDKLEKERNDAKNAVEEYVYE
FRDKLCGPYEKFICEQDHQNFRLRLTETEDWLYEEGEDQAKQAYVDKLEELMKIGTPVKVRFQEAERPKMFEEL
GQRLQHYAKIAADFRNKDEKYNHIDSEMKKVEKSVNEVMEWMNNVMNAQAKKSLDQDPVVRAQEIKTKIKELNN
TCEPVVTQPKPKIESPKLERTPNGPNIDKKEEDLEDKNNFGAEPHONGECYPNEKNSVNMDLD

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FIGURE 624A

TGCAGAGAACAGAGAAAGGACATCTGCGAGGAAAGTTCCCTGATGGCTGTCAACAAAGTGCCACGTCTCTATGGC
TGTTGTACGCTGAGCACACGATTTTATCGCGCCTATCATATCTTGGTGCATAAACGCACCTCACCTCGGTCAACCC
TTGCTCCGTCTTATGAGACAGGCTTTATTATCCGCATTTTATATGAGGGGAATCTGACGGTGGAGAGAGAATTAT
CTTGCTCAAGGCGACACAGCAGAGCCCCACAGGTGGCAGAATCCCACCCGAGCCCGCTTCGACCCGCGGGGTGGAA
ACCACGGGCGCCCGCCCGGCTGCGCTTCCAGAGCTGAACTGAGAAGCGAGTCCTCTCCGCCCTGCGGCCACCGCC
CAGCCCCGACCCCCGCCCCGGCCCGATCCTCACTCGCCGCCAGCTCCCCGCGCCACCCCGGAGTTGGTGGCGCA
GAGGCGGGAGGCGGAGGCGGGAGGGCGGGCGCTGGCACCGGGAACGCCCGAGCGCCGGCAGAGAGCGCGGAGAGC
GCGACACGTGCGGCCAGAGCACCGGGGCCACCCGGTCCCCGAGGCCCGGACCGCGCCCGCTGGCAGGCGACA
CGTGGAAGAATACGGAGTTCTATACCAGAGTTGATTGTTGATGGCACATACTTTTAGAGGATGCTCATTGGCATT
TATGTTTATAATCACGTGGCTGTTGATTAAAGCAAAATAGATGCGTGCAAGAGAGGGCGATGTGACTGTGAAGCC
TTCCCATGTAATTTTACTTGGATCCACTGTCAATATTACATGCTCTTTGAAGCCAGACAAGGCTGCTTTCACTA
TTCCAGACGTAACAAGTTAATCCTGTACAAGTTTGACAGAAGAATCAATTTTCACCATGGCCACTCCCTCAATTC
TCAAGTCACAGGTCTTCCCCTTGGTACAACCTTGTTTGTCTGCAAACTGGCCTGTATCAATAGTGATGAAATTC
AATATGTGGAGCAGAGATCTTCGTTGGTGTGTGCTCCAGAACAGCCTCAAAATTTATCCTGCATACAGAAAGGAGA
ACAGGGGACTGTGGCCTGCACCTGGGAAAAGAGGACGAGACACCCACTTATACACTGAGTATACTCTACAGCTAAG
TGGACCAAAAAATTTAACCTGGCAGAAAGCAATGTAAAGACATTTATTGTGACTATTTGGACTTTGGAATCAACCT
CACCCCTGAATCACCTGAATCCAATTTACAGCCAAGGTTACTGCTGTCAATAGTCTTGGAAGCTCCTCTTCACT
TCCATCCACATTACATTCTTGGACATAGTGAGGCCTCTTCCCTCCGTGGGACATTAGAATCAAAATTTCAAAGGC
TTCCGTGAGCAGATGTACCCTTTATTGGAGAGATGAGGGACTGGTACTGCTTAATCGACTCAGATATCGGCCAG
TAACAGCAGGCTCTGGAATATGGTTAATGTTACAAAGGCCAAAGGAAGACATGATTTGCTGGATCTGAAACCATT
TACAGAATATGAATTTTCAATTTCTTCTAAGCTACATCTTTATAAGGGAAGTTGGAGTGATTGGAGTGAATCATT
GAGAGCACAAACACCAGAAGAAGAGCCTACTGGGATGTTAGATGTCTGGTACATGAAACGGCACATTGACTACAG
TAGACAACAGATTTCTCTTTTCTGGAAGAATCTGAGTGTCTCAGAGGCAAGAGGAAAAATTTCTCCACTATCAGGT
GACCTTGAGGAGCTGACAGGAGGGAAAGCCATGACACAGAACATCACAGGACACACCTCCTGGACCACAGTCAT
TCCTAGAACCGGAAATTTGGCTGTGGCTGTGTCTGCAGCAAATTCAAAAGGCAGTTCTCTGCCCACTCGTATTAA
CATAATGAACCTGTGTGAGGCAGGGTTGCTGGCTCCTCGCCAGGTCTCTGCAAACTCAGAGGGCATGGACAACAT
TCTGGTGAATTTGGCAGCCTCCAGGAAAGATCCCTCTGCTGTTTACAGGAGTACGTGGTGAATGGAGAGAGCTCCA
TCCAGGGGGTGACACACAGGTCCCTCTAACTGGCTACGGAGTACGCCCTACAATGTGTCTGCTCTGATTTCAGA
GAACATAAAATCCTACATCTGTTATGAAATCCGTGTGTATGCACTCTCAGGGGATCAAGGAGGATGCAGCTCCAT
CCTGGGTAACCTCTAAGCACAAAGCACCCTGAGTGGCCCCACATTAATGCCATCACAGAGGAAAAGGGGAGCAT
TTTAATTTTATGGAACAGCATTCCAGTCCAGGAGCAAATGGGCTGCCTCCTCCATTATAGGATATACTGGAAGGA
ACGGGACTCCAACCTCCAGCCTCAGCTCTGTGAAATTCCTACAGAGTCTCCCAAAATTCACATCCAATAAACAG
CCTGCAGCCCCGAGTGACATATGCTCTGTGGATGACAGCTCTGACAGCTGCTGGTGAAAGTTCCACGGAAATGA
GAGGGAATTTTGTCTGCAAGGTAAAGCCAATTGGATGGCGTTTGTGGCACCAAGCATTTCATTGCTATCATCAT
GGTGGGCATTTTCTCAACGCATTACTTCCAGCAAAGGTGTTTGTCTCTCTAGCAGCCCTCAGACCTCAGTGGTG
TAGCAGAGAAATTCAGATCCAGCAAATAGCACTTGGCTAAGAAATATCCCATTGCAGAGGAGAAGACACAGCT
GCCCTTGGACAGGCTCCTGATAGACTGGCCACGCCTGAAGATCCTGAACCGCTGGTCATCAGTGAAGTCCTTCA
TCAAGTGACCCAGTTTTTCAAGACATCCCCCTGCTCCAACCTGGCCACAAAGGGAAAAAGGAATCCAAGGTCAATCA
GGCCTCTGAGAAAAGACATGATGCACAGTGCCTCAAGCCCACCACCTCCAAGAGCTCTCCAAGCTGAGAGCAGACA
ACTGGTGGATCTGTACAAGGTGCTGGAGAGCAGGGGCTCCGACCCAAAGCCAGAAAAACCCAGCCTGTCCCTGGAC
GGTGTCTCCAGCAGGTGACCTTCCACCCATGATGGCTACTTACCCTCCAACATAGATGACCTCCCTCACATGA
GGCACCTCTCGCTGACTCTCTGGAAGAAGTGGAGCCTCAGCACATCTCCCTTTCTGTTTTCCCTCAAGTTCTCT
TCACCCACTCACCTTCTCCTGTGGTGATAAGCTGACTCTGGATCAGTTAAAGATGAGGTGTGACTCCCTCATGCT
CTGAGTGGTGAGGCTTCAAGCCTTAAAGTCAGTGTGCCCTCAACCAGCACAGCCTGCCCCAATTTCCCCAGCCCC
TGCTCCAGCAGCTGTCTCTGGGTGCCACCATCGGTCTGGCTGCAGCTAGAGGACAGGCAAGCCAGCTCTGGG
GGAGTCTTAGGAACTGGGAGTTGGTCTTCACTCAGATGCCTCATCTTGCTTTCCAGGGCCTTAAAATTACATC
CTTCACTGTGTGGACCTAGAGACTCCAACCTGAATTCCTAGTAACCTTCTTGGTATGCTGGCCAGAAAGGGAAAT
GAGGAGGAGAGTAGAAACCACAGCTCTTAGTAGTAATGGCATAACAGTCTAGAGGACCATTTCATGCAATGACTATT

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FIGURE 624B

TCTAAAGCACCTGCTACACAGCAGGCTGTACACAGCAGATCAGTACTGTTCAACAGAACTTCCTGAGATGATGGA
AATGTTCTACCTCTGCACTCACTGTCCAGTACATTAGACACTAGGCACATTGGCTGTTAATCACTTGGAATGTGT
TTAGCTTGACTGAGGAATTAAATTTTGATTGTAAATTTAAATCGCCACACATGGCTAGTGGCTACTGTATTGGAG
TGCACAGCTCTAGATGGCTCCTAGATTATTGAGAGCCTCCAAAACAAATCAACCTAGTTCTATAGATGAAGACAT
AAAAGACACTGGTAAACACCAATGTAAAAGGGCCCCCAAGGTGGTCATGACTGGTCTCATTTCAGAAAGTCTAAG
AATGTACCTTTTTCTGGCCGGGCGTGGTAGCTCATGCCTGTAATCCAGCACTTTGGGAGGCTGA

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FIGURE 625

MAHTFRGCSLAFMFIIITWLLIKAKIDACKRGDVTVKPSHVILLGSTVNITCSLKPRQGC FHYSRRNKLILYKFDR
RINFHHGHSLSNSQVTGLPLGTTLFVCKLACINSDEIQICGAEIFVGVAPEQPQNLSCIQKEQGT VACTWERGRD
THLYTEYTLQLSGPKNLWQKQCKDIYCDYLD FGINLTPESPESNFTAKVTAVNSLGSSSSSLPSTFTFLDIVRPL
PPWDIRIKFQKASVSRCTLYWRDEGLVLLNRLRYRPSNSRLWNMVNVTKAKGRHDLDDLKPFTEYEFQISSKLHL
YKGSWSDWSESLRAQTPEEEPTGMLDVWYMKRHIDYSRQQISLFWKNLSVSEARGKILHYQVTLQELTGGKAMTQ
NITGHTSWTTVIPRTGNWAVAVSAANSKGSSLPTRINIMNLCEAGLLAPRQVSANSEGMDNILVTWQPPRKDPSA
VQEYVVEWRELHPGGDTQVPLNWLRSPYNVSALISENIKSYICYEIRVYALSGDQGGCSSILGNSKHKAPLSGP
HINAITEEKGSILISWNSIPVQEQMGCLLHYRIYWKERDSNSQPQLCEIPYRVSQNSHPINSLQPRVTYVLWMTA
LTAAGESSHGNEREFCLQGANWMAFVAPSICIAIIMVGIFSTHYFQQKVFVLLAALRPQWCSREIPDPANSTCA
KKYPIAEKQTQLPLDRLLIDWPTPEDPEPLVISEVLHQVTPVFRHPPCSNWPQREKGIQGHQASEKDMMHSASSP
PPPRALQAESRQLVDLYKVLESRGSDPKPENPACPWTVLPAGDLPTHGYLPSNIDDLPSHEAPLADSLEELEPQ
HISLSVFPSSSLHPLTFSCGDKLTLDQLKMRCDSLML

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FIGURE 626

CTCGAGGCCAAGAATTCGGCACGAGGGAACCTGTAAACGCTCTCGGAATTATGCGCGCGGTGGATATCCGAGACA
AICTGCTGGGAATTTCTTGGGTTGACAGCTCTTGGATCCCTATTTTGAACAGTGGTAGTGTCTGGATTACTTTT
CAGAAAGAAGTAATCCTTTTTATGACAGAACATGTAATAATGAAGTGGTCAAAATGCAGAGGCTAACATTAGAAC
AATTGAATCAGATGGTTGGAATCGAGTACATCCTTTTGCATGCTCAAGAGCCCATTCTTTTCATCATTGCGAAGC
GCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTACTATATCATTGCTGGAGTGATCTATCAGGCAC
TGGGATCAGTTATAAACTCTAGAGTGCTTACTGCAGTGCATGGTATTCAGTCAGCTTTTGATGAAGCTA
TACTGTCGATATCATCCTTCCAAAGGGTATTGGTGGCACTTCAAAGATCATGAAGAGCAAGGTAAGTAGA
ATCCATACCCTCCTAAACACTTTTTGATCCTCTGAGAATGAAGCTGTTTTCTTTAGGAAAATGGCTGTTGAT
CTAAGTGTGTTTCACTTTTTTCATGGGATGATGGCTTTGTTGCAGCTGAGATTCATGTAAC TAGAGTGGTA
TAGTTTTCACATAGGAACAGATGCAAGTTCACCTCTGTTAGTTAACTGGTAGTCTTTGTTAAGGTGATTCAAG
AAAATATTTGGGGCCAGGTGTGGTGGCTCACTCCTGTAATCCCGGCACTTTGGGAATGCCAAGGCAGGTGG
CCTGAGCCTAGGAGTTCAAGATCAGCCTGGGCAACATAGTGAAACCTGGTCTCTGC

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FIGURE 627

MAAVDIRDNLLGISWVDSSWIPILNSGSVLDYFSERSNPFYDRTCNEVVKMQRLEHLNQMVGIEYILLHAQE
PILFIIRKQQRQSPAQVIPLADYYIIAGVIYQAPDLGSVINSRVLTAVHGIQSAFDEAMSYCRYHPSKGYWWHFK
DHEEQGK

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FIGURE 628

CTCATATTTACACAGATGAGTTGGCGAGGAAGATCGACCTATTATTGGTCTAGGCCAATAATAGGTCGATCTTC
CTCGCCAACTCATATTTACACAGATGAATCTCAGTAGAGGAAAATCGACCTATTATTGGCCTAGACCAAGGCGC
TATGTACAGCCTCCTGAAGTGATTGGGCCTATGCGGCCCGAGCAGTTCAGTGATGAAGTGAACCAGCAACACCT
GAAGAAGGGGAACCAGCAACTCAACGTCAGGATCCTGCAGCTGCTCAGGAGGGAGAGGATGAGGGAGCATCTGCA
GGTCAAGGGCCGAAGCCTGAAGCTGATAGCCAGGAACAGGGTCACCCACAGACTGGGTGTGAGTGTGAAGATGGT
CCTGATGGGCAGGAGATGGACCCGCCAAATCCAGAGGAGGTGAAAACGCCTGAAGAAGGTGAAAAGCAATCACAG
TGTTAAAAGAAGGCACGTTGAAATGATGCAGGCTGCTCCTATGTTGGAAATTTGTTTCATTAAAATTCTCCAATA
AAGCTTTACAGCCTTCTGCAAAGAAAA

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FIGURE 629

MNLSRGKSTYYWPRPRRYVQPPEVIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAQEGEDEGASAGQGPKEA
DSQEQGHPQTGCECEDGPDGQEMDPPNPPEEVKTPEEGEKQSQC

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FIGURE 630

CACACCCTGACAAGCTGCCAGGCAGGTTCTCTTCCTCTCACATACTGACCCACGGCTCCACCCTCTCTCCCCTGG
AAAGGACACCAATGAGCACTGAAAGCATGATCCGGGACGTGGAGCTGGCCGAGGAGGCGCTCCCCAAGAAGACAGG
GGGGCCCCAGGGCTCCAGGCGGTGCTTGTTTCCTCAGCCTCTTCTCCTTCCTGATCGTGCGAGGCGCCACCACGCT
CTTCTGCCTGCTGCACTTTGGAGTGATCGGCCCCCAGAGGGAAGAGTCCCCCAGGGACCTCTCTCTAATCAGCCC
TCTGGCCCAGGCAGTCAGATCATCTTCTCGAACCCCGAGTGACAAGCCTGTAGCCCATGTTGTAGCAAACCCTCA
AGCTGAGGGGCGAGCTCCAGTGCGTGAACCGCCGGGCCAATGCCCTCCTGGCCAATGGCGTGGAGCTGAGAGATAA
CCAGCTGGTGGTGCCATCAGAGGGCCTGTACCTCATCTACTCCAGGTCTCTTCAAGGGCCAAGGCTGCCCTC
CACCCATGTGCTCCTCACCCACACCATCAGCCGCATCGCCGTCTCCTACCAGACCAAGGTCAACCTCCTCTCTGC
CATCAAGAGCCCCCTGCCAGAGGGAGACCCAGAGGGGGCTGAGGCCAAGCCCTGGTATGAGCCCATCTATCTGGG
AGGGGTCTTCCAGCTGGAGAAGGGTGACCGACTCAGCGCTGAGATCAATCGGCCCCGACTATCTCGACTTTGCCGA
GTCTGGGCAGGTCTACTTTGGGATCATTGCCCTGTGAGGAGGACGAACATCCAACCTTCCCAAACGCCTCCCCTG
CCCCAATCCCTTTATTACCCCTCCTTCAGACACCCTCAACCTCTTCTGGCTCAAAAAGAGAATTGGGGGCTTAG
GGTCGGAACCCAAGCTTAGAAGCTTTAAGCAACAAGACCACCACTTCGAAACCTGGGATTAGGAATGTGTGGCCT
GCACAGTGAAGTGCTGGCAACCCTAAGAATTCAAACCTGGGGCCTCCAGAACTCACTGGGGCCTACAGCTTTGAT
CCCTGACATCTGGAATCTGGAGACCAGGGAGCCTTTGGTTCTGGCCAGAATGCTGCAGGACTTGAGAAGACCTCA
CCTAGAAATTGACACAAGTGGACCTTAGGCCTTCCTCTCTCCAGATGTTTCCAGACTTCCTTGAGACACGGAGCC
CAGCCCTCCCATGGAGCCAGCTCCCTCTATTTATGTTTGCACCTGTGATTATTTATTATTTATTTATTTATTTAT
TTATTTACAGATGAATGTATTTATTTGGGAGACCGGGGTATCCTGGGGGACCCAATGTAGGAGCTGCCTTGGCTC
AGACATGTTTTCCGTGAAAACGGAGGCTGAACAATAGGCTGTTCCTCATGTAGCCCCCTGGCCTCTGTGCCTTCTT
TTGATTATGTTTTTAAATATTATCTGATTAAGTTGTCTAAACAATGCTGATTGGTGACCAACTGTCACTCAT
TGCTGAGGCCTCTGCTCCCCAGGGAGTTGTGTCTGTAATCGGCCTACTATTAGTGCGAGAAATAAAGGTTGCT
TAGGAAAGAA

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FIGURE 631

MSTESMIRDVELAEEALPKKTGGPQGSRRCLFLSLFSFLIVAGATTLFCLLHFGVIGPQREESPRDLSLISPLAQ
AVRSSSRTPSDKPVAHVVANPQAEGLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLFKGQGCPTHV
LLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEP IYLGGVFQLEKGDRLSAEINRPDYLDFAESGQ
VYFGIIAL

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FIGURE 632A

CA TGGCGGCGACTGCGGCAAAGCGAGAGCCTCGGAGACGCCGCTGCCGCCAGCACAGCCGGAGATCTGAGCCGAC
ACTGGGGGCAGTCCGCGAGCCCCGCACTCTCTCGATGAGTCGGAGAAGTCCCGTTGTATCAGAGTAAGATGGACG
GTAGCTTTGATTGTGATTGTGGTGAGCTGGAGCCACCTGATCACTAACAAAAGACATCTTCTGTAAACCAACAGC
CGCCAGGCTTCTGTGTTGAAATAAATATATAGCAACAAAGGAAAAAAGAAGCAAAACGGAAATAGTGCTTACCAG
TTAGAATGATGCTGCTCAGGACCAGTCCAACACTGAATGTATCTGCACTGTGAGGAGAATGTTTCATAGAAG
TTGTGTGCATATTTATTCACTTTTTGTAAATGTTAAATCGTTTAGCACGGTAATCTGAGTGCACAGTATG
TTTCATTCCGTTTGAGTTTCTTGTTCGTTAAATGTCTGCAGAGTTGCTGCCCTTTCTTGAACATATGAGT
ATGCAATCTTTTAAATCTCAATATGAATAGAGCTTTTTGAGCTTTAAATCTAAGGGGAACCTCGACAGGCCTGT
TCATATGCAATGAACATCAAGAAACCATCTTGCTGTGGAAGCATAATTATTTTTCTTCTCCCTTTTTGAAAG
TTCCCTTTTGATGCCAGTTTTCTTCTTGTTCACACAAGTTCAATTTGAAAGGAAAAGGCAATAGTAAGGGT
TAAATGGCAGAGAAATTTGAAAGTCTCATGAACATTTCATGGTTTTGATCTGGGTTCTAGGTATATGGACTTA
TCATTGGGTTGTGGAGGCAATGGCTTGGTTTTTCTGCTGTAGACAATGACTGTGACAAAAGAGTAGCCATC
TAAATTTGTCCTTACTGATCCCCAGAGTGTCAAACATGCTCTACGTGAAATCAAAATTATTAGAAGACTTGAC
CATGATAACATTGTGAAAGTGTGTGAGATTCTTGGTCCCAGTGGAAGCCAATTAACAGACGATGTGGGCTCTCTT
ACGGAACTGAACAGTGTTCATTGTTCAGGAGTACATGGAGACAGACTTGCTAATGTGCTGGAGCAGGGCCCT
TACTGGAAGAGCATGCCAGGCTTTTCATGTATCAGCTGCTACGGGGGCTCAAGTATATTCACTCTGCAAATGTA
CTGCACAGAGATCTCAAACCAGCTAATCTTTTCATTAATACGGAAGACTTGGTGTGAAGATAGGTGACTTTGGT
CTTGACGGATCATGGATCCTCATTATTCCCATAAAGGGTCATCTTCTGAAGGATTGGTTACTAAATGGTACAGA
TCTCCACGTCTTTTACTTTCTCTAATAATTATACTAAAGCCATTGACATGTGGGCTGCAGGCTGCATCTTTGCT
GAAATGCTGACTGGTAAACCCTTTTTGCAGGTGCACATGAACCTGAACAGATGCAGCTGATTTTAGAATCTATT
CCTGTTGTACATGAGGAAGATCGTCAGGAGCTTCTCAGCGTAATTCAGTTTACATTAGAAATGACATGACTGAG
CCACACAAACCTTTAACTCAGCTGCTTCCAGGAATTAGTCGAGAAGCACTGGATTTCCTGGAACAAATTTTGACA
TTTAGCCCCATGGATCGGTTAACAGCAGAAGAAGCACTCTCCCATCCTTACATGAGCATATATTCTTTTCCAATG
GATGAGCCAATTTCAAGCCATCCTTTTCATATTGAAGATGAAGTTGATGATATTTTGCTTATGGATGAAACTCAC
AGTCACATTTATACTGGGAAAGGTATCATGATTGTGAGTTTTCAGAGCATGATTGGCCTGTACATAACAACCTT
GATATTGATGAAGTTGAGCTTGATCCAAGAGCTCTGTCCGATGTCAGTATGAAGAAGAAGTACAAGTTGATCCC
CGAAATATTTGGATGGAGATCGGGAAAAGTATCTGGAGGATCCTGCTTTTGATAACCAATTACTCTACTGAGCCT
TGTTGGCAATACTCAGATCATCATGAAAACAAATATTGTGATCTGGAGTGTAGCCATACTTGTAACACAAAACG
AGGTATCATCATATTTAGATAACTTAGTTTGGAGAGAGAGTGAAGTTAACCATTACTATGAACCCAAGCTTATT
ATAGATCTTTCCAATTGGAAAGAACAAAGCAAAAGAAAAATCTGATAAGAAAGGCAATCAAAATGTGAAAGGAAT
GGATTGGTTAAAGCCAGATAGCGCTAGAGGAAGCATCACAGCAACTGGCTGGAAAAGAAAGGGAAAAGAAATCAG
GGATTGATTTTGATTTCCTTTATTGCAGGAACCTATTGAGCTTAGTTCCAGCATGAGCCTACTGATGTTGTTGAT
AAATTAATGACTTGAATAGCTCAGTGTCCCAACTAGAATTGAAAAGTTTGATATCAAAGTCAGTAAGCCAAGAA
AAACAGGAAAAGGAATGGCAATCTGGCTCAATTAGAAGCCTTGTAACAGTCTTCTTGGGACAGCCAGTTTGTG
AGTGGTGGGGAGGACTGTTTTTTCATAAATCAGTTTTGTGAGGTAAGGAAGGATGAACAAGTTGAGAAGGAAAAC
ACTTACACTAGTTACTTGGACAAGTTCTTTAGCAGGAAAGAAGATACTGAAATGCTAGAACTGAGCCAGTAGAG
GATGGGAAGCTTGGGGAGAGAGGACATGAGGAAGGATTTCTGAACAACAGTGGGGAGTTTCTCTTTAACAAAGCAG
CTCGAGTCCATAGGCATCCACAGTTTCACAGTCCAGTTGGGTACCCTTAAGTCAATACAGGCCACATTAACA
CCTTCTGCTATGAAATCTTCCCTCAAATTCCTCATCAAACATACAGCAGCATTCTGAAACATCTGAACTAAAC
ACTCAGCAGACATTTATCTTTGTATTCTTCATGAAATGTGTTTTGTCTTTTTTTTATTACTAGTGTTTAAGTCATT
TTTTACTTGAATCAGATGGTGTCAATTTAGTAAGGATTTTATGAGTTCTTGTTTTTTAAATCCAGACTTTCTTT
TCTACATGTGAGATAGTTTTCAATTTAACTGGCATGTCAATTTGCACACAAAAATAAAGACTAGAGCAAAATAATG
CAACGCAGGAGGAGAAAAGAAATGCACTAAGACAAGAACATTCTCTCATAGAACATTGATCTGTTTTACAGGAAA
CAAACCTTGCTTGAATTTACACAGTGAGACTGTACATAATTGCATGAAAATAGCTATTTTTTCTTAAGACAT
TTTTCAATTCATGAATATTTTCAAGTTTTTCACTGTACACATTTCTTAAACACATGATACCAGCAGCAACTGA
AAATGAATGCCGAATTTGGTACACATGTGTTATCTACCTCAAGGTAACAAGAGTATGTGGCAAAACATATACCAC
CCATAGTGCTTCACAAAATGCACTTCTATTTAGCCAGCGTTTATTGTAGTAACTATTTCTTAATAAACTCACTC
ACTGTTTATAAATGTTCTGGTATGCATTCTTTATAGTGAAGTGTTAATACATCACATCTTATTTATTTTAGCAAA

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FIGURE 632B

TCAGTATATTTTCTGTATTTAATTATAAAAAATTAAGTTAGTTTTTAAAATTTATTTGCAAATATACTTTTTCCA
TTTGGCACTATGGTTTGTTCCTACCTAGCTGCATCTATAATGTCAGCTTATCCTAAGGCTGTCCACGTACTTAA
TTTACTTAAGTGTTTCAATTTAAGTAACGTGCTCACTGTGTATAGGAATTTGTATTTTGGAGGTGCTTGATCTATC
TACAAAGAAAAATTAATTAGGAATTACTTTATTATAAAATGCTCCTAGAAGTCTTAATTGTGTTTATTTTTTAAA
AAAACAAATGTTAGACTTGTGTGCATGGAAGTAATTAAGGTACATCATTATTGTAGTTTGAAAGTTGTACATGAT
AAGACATTTTGTCTTTTACTGTATGTTTTTACTGAATGATCTATTCCCCATCCCAAGGCAAGCATGAATAAAATTA
GGTTAAACGTAGCATGTGGCATCGCAGTCTCTTAGAATTTGTTTCATCTATTTTATTTTATTGAATACTGTCTGT
ATCTTTGGTTATCCTGTTTGAAGAAAAAGGACAAATAAAACATGGCCAGCAAATACAAAAAAAAAAAAA

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FIGURE 633

MAEKFESLMNIHGFDLGSRYMDLKPLGCGGNGLVFSAVDNDCKRVAIKKIVLTDPQSVKHALREIKIIRRLDHD
NIVKVFEILGPSGSQLTDDVGSLTELNSVYIVQEYMETDLANVLEQGPLEEHARLFMYQLLRGLKYIHSANVLH
RDLKPANLFINTEDLVLKIGDFGLARIMDPHYSHKGHLSEGLVTKWYRSPRLLLSPNNYTKAIDMWAAGCIFAEM
LTGKTLFAGAHELEQMQLILESIPVVHEEDRQELLSVIPVYIRNDMTEPHKPLTQLLPGISREALDFLEQILTFS
PMDRLTAAEALSHPYMSIYSFPMDEPISSHPFHIEDEVDDILLMDETHSHIYNWERYHDCQFSEHDWPVHNNFDI
DEVQLDPRALSDVTDEEEVQVDPKRYLDGDREKYLEDPAFDTNYSTEPCWQYSDHHENKYCDLECSHTCNYKTRS
SSYLDNLVWRESEVNHYEYEPKLIIDLSNWKEQSKEKSDKKGKSKCERNGLVKAQIALEEASQQLAGKEREKNQGF
DFDSFIAGTIQLSSQHEPTDVVDKLNLDLNSSVSQLELKSLSKSVSQEKQEKGMANLAQLEALYQSSWDSQFVSG
GEDCFFINQFCEVRKDEQVEKENTYTSYLDKFFSRKEDTEMLETEPVEDGKLGERGHEEGFLNNSGEFLFNKQLE
SIGIPQFHSPVGSPLKSIQATLTPSAMKSSPQIPHQTYSSILKHLN

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FIGURE 634

GGCCTTGGGGCTTTGTGAGATAGCTAGGGTCGACTTGTGTGGATTCTAGTAGAACGGAGCTGACCCTATCCGAAC
AGGCCCCCTGCCTGCTTGGATAGAGGCCTCCGAACAGGAGTAAAGAATGGCTGTTGAACATCCACAAGGCACCTGC
AAGACTATGAATCAAAGTTGAGACCAAGAAATTATTTCTGAAAAAGGATATGGAACCTTACAAAACACAGCAT
TGAGTGTTCAAGTTTCAGAGGTGATTGGGAATGTAAAAACAGTTTGAGAGAAAACAGGGATCTCAGGAAGGACA
TTTCAGTGAAATGATATTTACTCCTGAAGACATGCCCACTTTTCAGTATCCAGCATCAGAGAATTCATACTGATGA
GAAACTCCTTGAATGTAAGGAATGTGGGAAGGATTTTAGTTTTGTATCAGTCCTTGTTCGACATCAGCGAATTCA
TACTGGTGAGAAACCTTATGAATGCAAAGAATGTGGCAAGGCCTTTGGTAGTGGTGCAAACCTTGCTTACCATCA
AAGAATTCATACTGGTGAGAAGCCTTTTGAATGTAAAGAATGTGGGAAGGCCTTTGGTAGTGGCTCAAACCTTAC
TCACCATCAGAGAATTCATACTGGTGAGAAACCTTATGAGTGTAAGGAATGTGGGAAGCCTTTAGTTTTGGATC
AGGCCCTTATACGACATCAGATCATTCACAGTGGAGAGAAGCCTTATGAGTGTAAGGAATGTGGGAAGTCCTTTAG
TTTTGAATCAGCCCTTATTCGGCATCACAGAATTCACACAGGTGAGAAACCTTATGAATGTATAGATTGTGGTAA
AGCCTTTGGCAGTGGTTCAAACCTTACTCAACATCGGCGGATTCTACTGGTGAGAAACCTTATGAATGCAAAGC
ATGTGGAATGGCCTTTAGCAGTGGTTTCGGCTCTTACTCGGCATCAGAGAATTCATACCGGTGAGAAACCATATAT
ATGTAATGAATGTGGTAAGGCCTTTAGTTTTGGATCAGCCCTTACTCGACATCAAAGAATTCATACTGGTGAGAA
ACCTTATGTATGTAAGGAATGTGGGAAGGCCTTTAATAGTGGCTCAGATCTCACTCAGCATCAGAGAATTCACAC
TGGTGAGAAACCTTATGAGTGTAAGGAGTGTGAGAAAGCCTTTAGAAGTGGTTCAAACTTATTCAGCATCAAAG
AATGCATACTGGAGAGAAACCTTATGAATGTAAGGAATGTGGGAAGACCTTTAGTAGTGGTTTCAGACCTTACTCA
ACATCACAGAATTCATACTGGTGAGAAACCTTATGAATGTAAGGAATGTGGGAAGGCCTTTGGTAGTGGCTCAAA
ACTTATCCAACACCAGCTAATCCATACTGGTGAAAGACCCTTATGAATGTAAAGAATGTGGAAAGTCCTTTAGTAG
TGGTTCAGCTCTTAATCGGCACCAGAGAATACACACTGGTGAGAAACCTTATGAATGTAAGGAGTGTGGGAAGGC
TTTTTATAGTGGCTCAAGCCTTACTCAGCATCAGAGAATTCATACAGGTGAGAAACCTTTATGAATGTAAGAACTG
TGGGAAGGCCTTATGGGAGGGATTGAGAGTTTCAGCAACATAAGAAAAGTCATAATGGTAAGAACTCTGCGAATT
GGAAACTATAAATTGAAATTATGTGCTGAAGGAAGGACTCTAAACATATGACTTAAGAAAATTCATAGTGGTGAA
AATCTCTACAAATAGAACTAAGGTACAAATGCCTTACTTATGCTTCACAGGTTAGTCAGTCTAAGAATATTTATA
CAGGAAAAAATCACCCCAAATAAAATAAATATTTGAAGATCCTTATCTATATTTCATTCTTATTACTTTTGGGA
AAATTCCTTACTTGTGAATGTTAAAAATGAAAAAATCATTATTATATTTGCCTCAACTTTAAACATTGGAA
AACTCATTCTGGGTAAATC

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FIGURE 635

MENLTKHSIECSSFRGDWECKNQFERKQGSQEGHFSEMIFTPEDMPTFSIQHQRIHTDEKLLECKECKGDFSFSVS
VLVRHQRIHTGEKPYECKECKGAFSGGANLAYHQRIHTGEKPFECKECKGAFSGSGSNLTHHQRIHTGEKPYECKE
CGKAFSFGSGLIRHQIHSGEKPYECKECKGKSFSFESALIRHHRIHTGEKPYECIDCGKAFSGSGSNLTQHRIHT
GEKPYECKACGMAFSSGSALTRHQRIHTGEKPYICNECGKAFSFGSALTRHQRIHTGEKPYVCKECKGAFNSGSD
LTQHRIHTGEKPYECKECKEKAFRSGSKLIQHORMHTGEKPYECKECKGKTFSSGSDLTQHHRIHTGEKPYECKEC
GKAFSGSGSKLIQHQLIHTGERPYECKECKGKSFSFGSALNRHQRIHTGEKPYECKECKGAFYSGSSLTQHRIHTG
EKLYECKNCGKAYGRDSEFQQHKKSHNGKKLCELETIN

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FIGURE 636

CCACGCGTCCGCGCTCCCCCTCAGCTCCTGCAGTGCTAATTAAGGGAGGGAGCAGCGGGGAGCTTGCAGTGACCAA
GAGGGTGTGAGGCTAGGAGGCCACGATAAACAGGATACGATAAAAAGTCCTTAACCAAGACGCAGATGGGAAGAA
GCGTTAGAGCGAGCAGCACTCACATCTCAAGAACCAGCCTTTCAAACAGTTTCCAGAGATGGATTATCCTACTTT
ACTTTTGGCTCTTCTTCATGTATACAGAGCTCTATGTGAAGAGGTGCTTTGGCATAACATCAGTTCCCTTTGCCGA
GAACATGTCTCTAGAATGTGTGTATCCATCAATGGGCATCTTAACACAGGTGGAGTGGTTCAAGATCGGGACCCA
GCAGGATTCCATAGCCATTTTCAGCCCTACTCATGGCATGGTCATAAGGAAGCCCTATGCTGAGAGGGTTACTT
TTTGAATTCAACGATGGCTTCCAATAACATGACTCTTTTCTTTCGGAATGCCTCTGAAGATGATGTTGGCTACTA
TTCCTGCTCTCTTTACACTTACCCACAGGGAAGTTGGCAGAAGGTGATACAGGTGGTTCAGTCAGATAGTTTGA
GGCAGCTGTGCCATCAAAATAGCCACATTGTTTCGGAACCTGGAAAGAATGTCACACTCACTTGTGAGCCTCAGAT
GACGTGGCCTGTGTCAGGCAGTGAGGTGGGAAAAGATCCAGCCCCGTCAGATCGACCTCTTAACCTACTGCAACTT
GGTCCATGGCAGAAAATTTACCTCCAAGTTCCCAAGACAAATAGTGAGCAACTGCAGCCACGGAAGGTGGAGCGT
CATCGTCATCCCCGATGTGACAGTCTCAGACTCGGGGCTTTACCGCTGCTACTTGCAGGCCAGCGCAGGAGAAAA
CGAAACCTTCGTGATGAGATTGACTGTAGCCGAGGGTAAAACCGATAACCAATATACCTCTTTGTGGCTGGAGG
GACAGTTTTTATTGTTGTTGTTTGTATCTCAATTACCACCATCATTGTGATTTTCTTAACAGAAGGAGAAGGAG
AGAGAGAAGAGATCTATTTACAGAGTCTGGGATACACAGAAGGCACCCAATAACTATAGAAGTCCCATCTCTAC
CGGTCAACCTACCAATCAATCCATGGATGATACAAGAGAGGATATTTATGTCAACTATCCAACCTTCTCTCGCAG
ACCAAAGACTAGAGTTTAAAGCTTATTCTTGACATGAGTGCATTAGTAATGACTCTTATGTACTCATGCATGGATC
TTTATGCAATTTTTTCCACTACCCAAGGTCTACCTTAGATACTAGTTGTCTGAATTGAGTTACTTTGATAGGAA
AAATACTTCATTACCTAAAATCATTTTTTCATAGAAGTGTTCAGAAAACCTGACTCTAACTGGTTTTATATACAAA
AGAAAACCTTACTGTATCATATAACAGAATGATCCAGGGGAGATTAAGCTTTGGGCAAGGGCTATTTACCAGGGCT
TAAATGTTGTGTCTAGAATTAAGTATGGGCATAAACTGGCTTCTGAATCCCTTTCCAGAGTGTGGATCCATTTT
CCTGGTCTTGGCCTCACTCTCATGCAGGCTTTCTCTGTGTGGCAAGATGGCTGCCAACTCTTGGCAATTTCAT
ACATCCTTGTCTGTCTGGTAGAGAGTTTGCTTCTCAAATGGAGCAAACAAATTTGATTATTTTTTTCATTGTTA
AATAGGCAACATGACCAGAAAGGATGGAATGGCTTAAGTAACTAAGGGTTCACCTCTAGAGCTGAGAAGCAGGG
TCAAAGCACAACTACTGGGCAATTCAGAGCATGGTTAGAAGAGGAAAGGGGAGTCTCAAAGCTGGAGAGTTTACCA
ACAAATATTGACTGCAGTGATTAACCAAGACATTTTTGTAACTAAAAAGTGAAATATGGGATGGATTCTAGAAA
TGGGGTATCTCTGTCCATACTTCTAGAATCCACTCTATCAGCATAGTCCAGAAGAATACCTGGCAGTAGAAGAAA
TGAATATTCAAGAGGAAGATAAATGCGAGAGGGCAATCCTTTACTATTCTCATATTTATTTATCTCTCATTCTGT
ATAGAATTCTTGCCGCCATCCCAGGTCTAGCCTTAGGAGCAAATGTAGTAGATAGTGAATAATAAATAACTTAA
TGTTTTGGACATATTTTGTCTACTTTTGAGAATTATTTTTAATATGTAAATTCTCTCAAAGGGTCAGGCACCTA
GTTATTATTTTTTAATGATTATGTGAAAGTTGAATATAATATACCCTAAAAGTGACAGTTGAAAGTGGTGGCAT
AGGATGGTAGGGTAGAAATTTGGGAGGGAAAAAAGAAATGGGAGGGTACAGGCAACAGGAGAAAGGAATCAAAC
CACAGAAAAATACAAAGGGAACTTCTGCTTCACTATTCAGACAAAGACAGCCCTAATGACATCACCAACAGTCA
AAGCAATTAGAGACCATACTAATATTGTTTAAATTCTAGATGTAGGCTAACAATGAAAAGTATTTGCCAACTG
AATAAACTGTCATGGTTACCTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 637

MDYPTLLLALLHVYRALCEEVLWHTSVPPFAENMSLECVYPSMGILTQVEWFKIGTQODSIAIFSPTHGMVIRKPY
AERVYFLNSTMASNNMTLFFRNASEDDVGYYSCSLYTYPQGTWQKVIQVVQSDSFEAAVPSNSHIVSEPGKNVTL
TCQPQMTWFPVQAVRWEKIQPRQIDLLTYCNLVHGRNFTSKFPRQIVSNCSHGRWSVIVIPDVTVS DSGLYRCYLQ
ASAGENETFVMRLTVAEGKTDNQYTLFVAGGTVLLLLFVISITTIIVIFLNRRRRRRERRDLFTESWDTQKAPNNY
! ! SIGQPTNQSMDDTREDIYVNYPTFSRRPKTRV

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FIGURE 638A

GGCGGCTCGGGACGGAGGACGCGCTAGTGTGAGTGCGGGCTTCTAGAACTACACCGACCCCTCGTGTCTCCCTTC
ATCCTGCGGGGCTGGCTGGAGCGGCCGCTCCGGTGTGTCCAGCAGCCATAGGGAGCCGCACGGGGAGCGGGAAA
GCGGTGCGGGCCCCAGGCGGGGCGGCCGGGATGGAGCGGGGCCGAGCCTGTGGGAAGGGGCTGTGGCGGCGC
CTCGAGCGGCTGCAGGTTCTTCTGTGTGGCAGTTCAGAAATGATGGATCAAGCTAGATCAGCATTCTCTAACTTGT
TTGGTGGAGAACCATTGTTCATATACCCGGTTCAGCCTGGCTCGGCAAGTAGATGGCGATAACAGTCATGTGGAGA
TGAAACTTGCTGTAGATGAAGAAGAAAATGCTGACAATAACACAAAGGCCAATGTACAAAACCAAAAAGGTGTA
GTGGAAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTTCTTGATTGGATTTATGATTGGCTACTTGGGCT
ATTGTAAAGGGGTAGAACCAAAAAGTGTGAGAGACTGGCAGGAACCGAGTCTCCAGTGAGGGAGGAGCCAG
GAGAGGACTTCCCTGCAGCACGTCGCTTATATTGGGATGACCTGAAGAGAAAAGTTGTGCGGAGAACTGGACAGCA
CAGACTTCACCAGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCCTCGTGAGGCTGGATCTCAAAAAGATG
AAAATCTTGCGTTGTATGTTGAAAATCAATTTTCGTGAATTTAACTCAGCAAAGTCTGGCGTGATCAACATTTTG
TTAAGATTCAAGTCAAAGACAGCGCTCAAACTCGGTGATCATAGTTGATAAGAACGGTAGACTTGTTTACCTGG
TGGAGAATCCTGGGGGTATGTGGCGTATAGTAAGGCTGCAACAGTTACTGGTAACTGGTCCATGCTAATTTTG
GTACTAAAAAGATTTTGAGGATTTATACACTCCTGTGAATGGATCTATAGTGATTGTGAGAGCAGGGAAAATCA
CCTTTGCAGAAAAGGTTGCAAATGCTGAAAGCTTAAATGCAATTGGTGTGTTGATATACATGGACCAGACTAAAT
TTCCCATTTGTTAACGCAGAACTTTTATTCTTTGGACATGCTCATCTGGGGACAGGTGACCTTACACACCTGGAT
TCCCTTCCTTCAATCACACTCAGTTTCCACCATCTCGGTGATCAGGATTGCCTAATATACCTGTCCAGACAATCT
CCAGAGCTGCTGCAGAAAAGCTGTTTGGGAATATGGAAGGAGACTGTCCCTCTGACTGGAAAACAGACTCTACAT
GTAGGATGGTAACCTCAGAAAGCAAGAATGTGAAGCTCACTGTGAGCAATGTGCTGAAAGAGATAAAAAATCTTA
ACATCTTTGGAGTTATTAAGGCTTTGTAGAACCAGATCACTATGTTGTAGTTGGGGCCCAGAGAGATGCATGGG
GCCCTGGAGCTGCAAAATCCGGTGTAGGCACAGCTCTCTATTGAACTTGCCAGATGTTCTCAGATATGGTCT
TAAAGATGGGTTTTCAGCCAGCAGAAGCATTATCTTTGCCAGTTGGAGTGCTGGAGACTTTGGATCGGTTGGTG
CCACTGAATGGCTAGAGGGATACCTTTTCGTCCCTGCATTTAAAGGCTTTCACTTATATTAATCTGGATAAAGCGG
TTCTTGGTACCAGCAACTTCAAGGTTTCTGCCAGCCCACTGTTGTATACGCTTATTGAGAAAACAATGCAAAATG
TGAAGCATCCGTTACTGGGCAATTTCTATATCAGGACAGCAACTGGGCCAGCAAAGTTGAGAACTCACTTTAG
ACAATGCTGCTTTCCCTTTCTTGCATATTCTGGAATCCCAGCAGTTTCTTTCTGTTTTTGCAGGACACAGATT
ATCCTTATTTGGGTACCACCATGGACACCTATAAGGAAGTGAATTGAGAGGATTCTGAGTTGAACAAAGTGGCAC
GAGCAGCTGCAGAGGTGCTGGTCAGTTTCGTGATTAACTAACCCTGATGTTGAATTGAACCTGGACTATGAGA
GGTACAACAGCCAAGTCTTTTCAATTTGTGAGGGATCTGAACCAATACAGAGCAGACATAAAGGAAATGGGCCTGA
GTTTACAGTGGCTGTATTCTGCTCGTGGAGACTTCTTCCGTGCTACTTCCAGACTAACAACAGATTTCCGGGAATG
CTGAGAAAACAGACAGATTTGTTCATGAAGAACTCAATGATCGTGTGATGAGAGTGGAGTATCACTTCTCTCTC
CCTACGTATCTCCAAAAGAGTCTCCTTTCCGACATGTCTTCTGGGGCTCCGGCTCTCACACGCTGCCAGCTTTAC
TGGAGAAGTTGAACTGCGTAAACAAAATAACGGTGCTTTTAAATGAAACGCTGTTTCAGAAACCAGTTGGCTCTAG
CTACTTGGACTATTTCAGGGAGCTGCAAAATGCCCTCTCTGGTGACGTTTGGGACATTGACAATGAGTTTTTAAATGT
GATACCCATAGCTTCCATGAGAACAGCAGGGTAGTCTGGTTTTCTAGACTTGTGCTGATCGTGCTAAATTTTCAGT
AGGGCTACAAAACCTGATGTTAAATTTCCATCCCATCATCTTGGTACTACTAGATGTCTTTAGGCAGCAGCTTTT
AATACAGGGTAGATAACCTGTACTTCAAGTTAAAGTGAATAACCACTTAAAAATGTCCATGATGGAATATTCCC
CTATCTCTAGAATTTTAAAGTGCTTTGTAATGGGAAGTGCCTCTTTCTGTTGTTGTTAATGAAAATGTCAGAAAC
CAGTTATGTGAATGATCTCTCTGAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTAAGTGGTTTCGCTTACTTTGA
GTGATCCTCCAAGTTCATTTGATGCTAAATAGGAGATACCAGGTTGAAAGACCTCTCCAAATGAGATCTAAGCCT
TTCCATAAGGAATGTAGCAGGTTTCTTCTGAAAGAAACAGTTAACTTTTCAAGAGATGGGCTTGTTCCT
TTGCCAATGAGGTCTGAAATGGAGGTCCTTCTGCTGGATAAAATGAGGTTCAACTGTTGATTGCAGGAATAAGGC
CTTAATATGTTAACCTCAGTGTCAATTTATGAAAAGAGGGGACCAGAAGCCAAAGACTTAGTATATTTTCTTTTCC
TCTGTCCCTTCCCCCATAAGCCTCCATTTAGTTCTTTGTTATTTTGTTCCTTCCAAAGCACATTGAAAGAGAAC
CAGTTTCAGGTGTTTAGTTGCAGACTCAGTTTGTGAGACTTTAAAGAATAATATGCTGCCAAATTTTGGCCAAAG
TGTTAATCTTAGGGGAGAGCTTTCTGTCTTTTGGCACTGAGATATTTATTGTTTATTTATCAGTGACAGAGTTC
ACTATAAATGGTGTTTTTTTTTAATAGAATATAATTATCGGAAGCAGTGCCTTCCATAATTATGACAGTTATACTGT
CGGTTTTTTTTTAAATAAAAGCAGCATCTGCTAATAAAACCAACAGATACTGGAAGTTTTGCATTTATGGTCAAC

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FIGURE 638B

ACTTAAGGGTTTTAGAAAACAGCCGTCAGCCAAATGTAATTGAATAAAGTTGAAGCTAAGATTTAGAGATGAATT
AAATTTAATTAGGGGTTGCTAAGAAGCGAGCACTGACCAGATAAGAATGCTGGTTTTCTAAATGCAGTGAATTG
TGACCAAGTTATAAATCAATGTCACCTAAAGGCTGTGGTAGTACTCCTGCAAAATTTTATAGCTCAGTTTATCCA
AGGTGTAACCTCTAATTCCCATTTGCAAAATTTCCAGTACCTTTGTACAAATCCTAACACATTATCGGGAGCAGTG
TCTTCATAATGTATAAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCGGAGACAGTGATCTCCATAT
GTTACACTAAGGGTGTAAGTAATTATCGGGAACAGTGTTCCTATAATTTTCTTCATGCAATGACATCTTCAAAG
CTTGAAGATCGTTAGTATCTAACATGTATCCCAACTCCTATAATTCCTATCTTTTAGTTTTAGTTGCAGAAACA
TTTTGTGGTCATTAAGCATTGGGTGGGTAAATTCACCACTGTAAATGAAATTACTACAAAATTTGAAATTTAG
CTTGGGTTTTTGTACCTTTATGGTTTCTCCAGGTCTCTACTTAATGAGATAGCAGCATACATTTATAATGTTT
GCTATTGACAAGTCATTTTAATTTATCACATTATTTGCATGTTACCTCCTATAAACTTAGTGCGGACAAGTTTTA
ATCCAGAATTGACCTTTTGACTTAAAGCAGAGGGACTTTGTATAGAAGGTTTGGGGGCTGTGGGGAAGGAGAGTC
CCCTGAAGGTCTGACACGTCTGCCTACCCATTTCGTGGTGATCAATTAAATGTAGGTATGAATAAGTTCGAAGCTC
CGTGAGTGAACCATCATATAAACGTGTAGTACAGCTGTTTGTTCATAGGGCAGTTGGAAACGGCCTCCTAGGGAAA
AGTTCATAGGGTCTCTTCAGGTTCTTAGTGTCACCTACCTAGATTTACAGCCTCACTTGAATGTGTCACTACTCA
CAGTCTCTTTAATCTTCAGTTTTATCTTTAATCTCCTCTTTTATCTTGGACTGACATTTAGCGTAGCTAAGTGAA
AAGGTCATAGCTGAGATTCCTGGTTCGGGTGTTACGCACACGTACTTAAATGAAAGCATGTGGCATGTTTCATCGT
ATAACACAATATGAATACAGGGCATGCATTTTGCAGCAGTGAGTCTCTTCAGAAAACCCCTTTTCTACAGTTAGGG
TTGAGTTACTTCCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCCTGAATGAAATATCAGACTAGTGACAA
GCTCCTGGTCTTGAGATGTCTTCTCGTTAAGGAGTAGGGCCTTTTGGAGGTAAAGGTATA

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FIGURE 639

MMDQARSASFNLFGGEPLSYTRFSLARQVDGDNHVMKLAVIDEENADNNTKANVTKPKRCSGSICYGTIAVIV
FFLIGFMIGYLG YCKGVEPKTECERLAGTESPVREEPGEDFPAARRLYWDDLKRKLSEKLDSTDFTSTIKLLNEN
SYVPREAGSQKDENLALYVENQFREFKLSKVWRDQHFVKIQVKDSAQNSV IIVDKNGRLVYLVENPGGYVAYS KA
ATVTGKLVHANFGTKKDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFPIVNAELSFFGH
AHLGTGDPYTPGFPSFNHTQFPSPRSSGLPNIPVQTI SRAAAEKLFGNMEGDCPSDWKTDSTCRMVTSESKNVKL
TVSNVLKEIKILNIFGVIKGFVEPDHYVVVGAQRDAWGPGAAKSGVGTALLLKL AQMFSDMVLKDGFP SRSIIF
ASWSAGDFGSGV GATEWLEGYLSSLHLKAFTYINLDKAVLGTSNFKVSASPLLYTLIEKTMQNVKHPVTGQFLYQD
SNWASKVEKLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIK
LTHDVELNLDYERYNSQLLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDFGNAEKTDRFVMKKLN
DRVMRVEYHFLSPYVSPKESPFRRHVFWGSGSHTLPALLENLKL RKQNNGAFNETLFRNQLALATWTIQGAANALS
GDVWDIDNEF

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FIGURE 640

CCCAGAGCAGCGCTCGCCACCTCCCCCGGCCTGGGCAGCGCTCGCCCGGGGAGTCCAGCGGTGTCTGTGGAGC
TGCCGCCATGCCCCGCGCGGGCGCGCGGTGCCGGACCCTCGGTCTCCCGGCGCTGCTACTGCTGCTGCTGCT
CCGGCCGCGGGCAGCGCGGGGCATCACGTGCCCTCCCCCATGTCCGTGGAACACGCAGACATCTGGGTCAAGAG
CTACAGCTTGTACTCCAGGGAGCGGTACATTTGTAACCTGTGTTTCAAGCGTAAAGCCGGCACGTCCAGCCTGAC
GGAGTGCGTGTGTAACAAGGCCACGAATGTCGCCCACTGGACAACCCCACTCTCAAATGCATTAGAGACCCTGC
CCTGGTTACCAAAGGCCAGCGCCACCCTCCACAGTAACGACGGCAGGGGTGACCCACAGCCAGAGAGCCTCTC
CCCTTCTGGAAGAGCCCGCAGCTTCACTCTCCAGCTCAAACAACACAGCGGCCACAACAGCAGCTATTGTCCC
GGGCTCCCAGCTGATGCCTTCAAATCACCTTCCACAGGAACACAGAGATAAGCAGTCATGAGTCCTCCACGG
CACCCCTCTCAGACAACAGCCAAGAACTGGGAACCTCACAGCATCCGCCTCCCACCAGCCGCCAGGTGTGTATCC
ACAGGGCCACAGCGACACCACTGTGGCTATCTCCACGTCCACTGTCTGTGTGGGCTGAGCGCTGTGTCTCT
CCTGGCATGTACCTCAAGTCAAGGCAAACCTCCCCGCTGGCCAGCGTTGAAATGGAAGCCATGGAGGCTCTGCC
GGTGACTTGGGGGACCAGCAGCAGAGATGAAGACTTGGAAGCTGCTCTCACCACCTATGAAACTCGGGGAAACC
AGCCCAGCTAAGTCCGGAGTGAAGGAGCCTCTCTGCTTTAGCTAAAGACGACTGAGAAGAGGTGCAAGGAAGCGG
GCTCCAGGAGCAAGCTCACCAGGCCTCTCAGAAGTCCCAGCAGGATCTCACGGACTGCCGGGTGGCGCCTCCTG
CGCGAGGGAGCAGGTTCTCCGCATTCCCATGGGCACCACCTGCCTGCCTGTCTGCTGCTTGGACCCAGGGCCCAGC
TTCCCAGGAGAGACCAAAGGCTTCTGAGCAGGATTTTTATTTTATTACAGTGTGAGCTGCCTGGAATACATGTGG
TAATGAAATAAAAACCCTGCCCGAATCTTCGTCCCTCATCTAACTTGCAGTTCACAGAGAAAAGTGACATAC
CCAAAGCTCTCTGTCAATTACAAGGCTTCTCCTGGCGTGGGAGACGTCTACAGGGAAGACACCAGCGTTTGGGCT
TCTAACCACCCTGTCTCCAGCTGCTCTGCACACATGGACAGGGACCTGGGAAAGGTGGGAGAGATGCTGAGCCCA
GCGAATCCTCTCCATTGAAGGATTGAGGAAGAAGAAAACCTCAACTCAGTGCCATTTTACGAATATATGCGTTTAT
ATTTATACTTCCTTGTCTATTATATCTATACATTATATATTATTTGTATTTTGACATTGTACCTTGATAAACA
AATAAACATCTATTTTCAATATTTTAAATGCA

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FIGURE 641

MAPRRARGCRTLGLPALLLLLLLRPPATRGITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTEC
VLNKATNVAHWTTPSLKCIRD PALVHQR PAPPSTVTTAGVTPQPESLSPSGKEPAASSPSSNNTAATTAAIVEGS
QLMPSPSTGTTEISSHESSHGTPSQTTAKNWELTASASHQPPGVYPQGHSDTTVAISTSTVLLCGLSAVSLLA
CYLKS RQTPPLASVEMEAMEALPVTWGTSSRDEDLNCSHHL

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FIGURE 642

AAACCACAAGACAGACTTGCAAAGAAGGCATGCACAGCTCAGCACTGCTCTGTTGCCTGGTCCTCCTGACTGGG
GTGAGGGCCAGCCAGGCCAGGGCACCCAGTCTGAGAACAGCTGCACCCACTTCCCAGGCAACCTGCCTAACATG
CTTCGAGATCTCCGAGATGCCTTCAGCAGAGTGAAGACTTTCTTTCAAATGAAGGATCAGCTGGACAACCTTGTG
TTAAAGGAGTCTTGTCTGGAGGACTTTAAGGGTTACCTGGGTGCCAAGCCTTGTCTGAGATGATCCAGTTTTAC
GAGGAGGTGATGCCCCAAGCTGAGAACCAAGACCCAGACATCAAGGCGCATGTGAACCTCCCTGGGGGAGAAC
AGACCCTCAGGCTGAGGCTACGGCGCTGTCATCGATTTCTTCCCTGTGAAAACAAGAGCAAGGCCGTGGAG
AGTGAAGAATGCCTTTAATAAGCTCCAAGAGAAAGGCATCTACAAAGCCATGAGTGAGTTTGACATCTTCATC
ACTACATAGAAGCCTACATGACAATGAAGATACGAAACTGAGACATCAGGGTGGCGACTCTATAGACTCTAGGA
ATAATTAGAGGTCTCCAAAATCGGATCTGGGGCTCTGGGATAGCTGACCCAGCCCCTTGAGAAACCTTATTGT
TCTCTTATAGAATATTTATTACCTCTGATACCTCAACCCCCATTTCTATTTATTTACTGAGCTTCTCTGTGA
ATTTAGAAAGAAGCCCAATATTATAATTTTTTCAATATTTATTATTTTACCTGTTTTTAAGCTGTTTCCA
GGTGACACACTATGGTATTTGAGTGTTTTAAGATAAATTATAAGTTACATAAGGGAGGAAAAAAATGTTCT
GGGAGCCAACAGAAGCTTCCATTCCAAGCCTGACCACGCTTTCTAGCTGTTGAGCTGTTTTCCCTGACCTCC
CTAATTTATCTTGTCTCTGGGCTTGGGGCTTCCTAAGTGTACAAATACTCTTAGGAAGAGAAACCAGGGAGC
CCTTTGATGATTAATTCACCTTCCAGTGTCTCGGAGGGATTCCCCTAACCTCATTCCCCAACCACTTCATTCTT
GAAAGCTGTGGCCAGCTTGTTATTTATAACAACCTAAATTTGGTTCTAGGCCGGGCGCGGTGGCTCACGCCTGTA
ATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACTTGAGGTCAGGAGTTCCTAACCCAGCCTGGTCAACATGG
TGAAACCCCGTCTCTACTAAAAATACAAAATTAGCCGGGCATGGTGGCGCGCACCTGTAATCCCAGCTACTTGG
GAGGCTGAGGCAAGAGAATTGCTTGAACCCAGGAGATGGAAGTTGCAGTGAGCTGATATCATGCCCTGTACTCC
AGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAATAAAAAATAAAATAAATTTGGTTCTAATAGAACTCAGT
TTTAAGTAGAATTTATTCAATTCCTCTGGGAATGTTACATTGTTTGTCTGTCTTCATAGCAGATTTTAATTTGA
ATAAATAAATGTATCTTATTCACATC

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FIGURE 643

MHSSALLCCLVLLTGVRASPGQGTQSENSCTHFFGNLPNMLRDLRDAFSRVKTFFQMKDQLDNLLLKESLLEDFK
GYLGCOALSEMIQFYLEEVMPPAENQDPDIKAHVNSLGENLKTLLRLRLRRCHRFLPCENKSKAVEQVKNAFNKLQ
EKGIYKAMSEFDIFINYIEAYMTMKIRN

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FIGURE 644

CTGAAGCTTGCATGCCTGCAGGTCGACCCACGCGTCCGCGGACGCGTGCGGACGCGTGCGGTTTTCCTTTCTT
CCAGAAGGAGATTTAACCATAGTAGAAAGAATGGAGAATTAATACTGCCTTCCTTCTGTGGGCTGTGATTTTCA
GAGGGGAATGCTAAGAGGTGATTTTCAATGTTGGGACTCAAAGGTGAAGACACTGAAGGACAGAATTTTGGCAG
AGGAAAGATCTTCTTCGGTCACCATACTTGAGTTAGCTCTAGGGAAGTGGAGGTTTCCATTGGAATTCATAGC
TTCTTCCAGGTCATAGTGTCTGCCCCCACCTTCCAGTATCTCCTGATATGCAGCATGAATGAAAAATGGCAAGTT
TCCTGGCCTTCTTCTGCTCAACTTTCGTGTCTGCCTCCTTTTGCTTCAGCTGCTCATGCCTCACTCAGCTCAGT
TTTCTGTGCTTGGACCTCTGCGGCCATCCTGGCCATGGTGGGTGAAGACGCTGATCTGCCCTGTCACCTGTTCC
CGACCATGAGTGCAGAGACCATGGAGCTGAAGTGGGTGAGTTCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAG
ATGGAAGGAAGTGGGAAGACAGGCAGAGTGCACCGTATCGAGGGGAACTTCGATTCTGCGGGATGGCATCACTG
CAGGGAAGGCTGCTCTCCGAATACACAACGTACAGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATG
GTGACTTCTATGAAAAAGCCCTGGTGGAGCTGAAGGTTGCAGCACTGGGTTCCTGATCTTCACGTTGATGTGAAGG
GTTACAAGGATGGAGGGATCCATCTGGAGTGCAGGTCCACTGGCTGGTACCCCCAACCCCAATACAGTGGAGCA
ACACAAGGGAGAGAACATCCCGACTGTGGAAGCACCTGTGGTTGCAGACGGAGTGGGCCTGTATGCAGTAGCAG
CATCTGTGATCATGAGAGGCAGCTCTGGGGAGGGTGTATCCTGTACCATCAGAAGTTCCTCCTCGGCCTGGAAA
AGACAGCCAGCATTTCATCGCAGACCCCTTCTTCAGGAGCGCCCAGAGGTGGATCGCCGCCCTGGCACGGACCC
TGCTGTCTTGTGCTGCTTCTTGGGGGAGCCGTTACTTCTGTGGCAACAGCAGGAGGAAAAAAGACTCAGT
TCAGAAAGAAAAAGAGAGAGCAAGAGTTGAGAGAAATGGCATGGAGCACAATGAAGCAAGAACAAGCACAAGAG
TGAAGCTCCTGGAGGAACCTCAGATGGAGAAGTATCCAGTATGCATCTCGGGGAGAGAGACATTACAGCCTATAATG
AATGAAAAAGGCCCTCTTCAAGCCTGCGGATGTGATTCTGGATCCAAAAACAGCAAACCCCATCCTCCTTGTTT
CTGAGGACCAGAGGAGTGTGCAGCGTGCCAAGGAGCCCCAGGATCTGCCAGACAACCTGAGAGATTTAATTGGC
ATTATTGTGTTCTCGGCTGTGAGAGCTTCATATCAGGGAGACATTACTGGGAGGTGGAGGTAGGGGACAGGAAAG
AGTGGCATATAGGGGTGTGCAGTAAGAATGTGCAGAGAAAAGGCTGGGTCAAATGACACCTGAGAATGGATTCT
GGACTATGGGGCTGACTGATGGGAATAAGTATCGGACTCTAACTGAGCCCAGAACCAACCTGAACTTCCTAAGC
CCCCAAGAAAGTGGGGGTCTTCTGGACTATGAGACTGGAGATATCTCATTCTACAATGCTGTGGATGGATCGC
ATATTCATACTTTCTGGACGTCTCCTTCTCTGAGGCTCTATATCCTGTTTTTCAGAATTTTGACCTTGGAGCCCA
CGGCCCTGAGTATTTGTCCAGCGTGAAGAAGAAGAGAGTTTCTCCAATTCTGACCGAGTGTGATCATTCCCT
AGAGACACCAGTAACCCCGGGCTTAGCTAACGAAAGTGGGGAGCCTCAGGCTGAAGTAACCTTTCTCTGCTTCTC
CCTGCCAGCTCAGAGCTGAGGGCCTCCCCCTCCACAGCAACCAATCACAACCATAAAGCTACAAGCACGCACTG
AAGCACTTTACTGATACTCATTCAATTATTCATATGACAGTTGTTTGAGTTTGGTACCATCTTATTTTCCCTTA
TACAGATAAGGAACTGGGGTGCAGAAAAGTGAATTGACTACAAAGTAGACATGACTAGTTAACAACACAGCTGG
GATCTAAACAGCAATAACTAACATTAATGGAGAACTTAAATGCTCTGAGTGTGTTATGAGCTTTGGTGGAT
GTCACCTCTTTAATCCTCGCAACACCTGTGCGGTTAGTCTCATTAGCAAGTATGGAAGTTGAGGCAGGGCAACA
TTAAGCAACTTACATAACTCATGCAGTAATTTCTGCAGTTGGGAGATGTTAGCTTCAGTCCCCGGCCCTATGGC
CGTTCTTTTCCACCCTGTTTCTTCCCCCATAGGAAGAACCACCTGTAGCCCTGAGGTTCTTTTCCAGGATGGC
TCCAGGATAAGGATCACTGTAGGTGGTTGTGGAGTTGACACCCCTGTTGACTCCTTCCAGCTGATTGTGAGAGC
CTTAGACCCAGCACGCTTGGATTAGCTTTGCAGAGTGTCTTGGTTGAGAGAATAACCTCACCGTACCCACATGA
CACGTGATTTGGAAGAGACTAGAGGCCACACTTGATAAATCATGGGGAACAGATGTGTTCCACCCAACAAATGT
GATAAGTGATCATGCAGCCAGAGCCAGCCTTCTTCAATCAAGGTTTCCAGGCAGAGCAAATACCCCTAGAGATTT
TCTGTGATATAGGAAATTTGGATGAAGGGAGCTAGAAGAAATACAGGGATTTTTTTTTTTTTTTTAAAGATGGAGTC
TTACTCTGTTGCTAGGCTGGAGTGCAGTGGTGCATCTCAGCTCCCTGCAACCTCCACCTCCTGGGTTCAAACAA
TTCTCCTGCCTCAGCCTCCCGAGTACTGGGAATATAGGTGCAGGCCACCACACCAACAAATTTTTGTACTTTTA
GTACAGATGAGGGTTCACTATGTTGGCCAGGATGGTCTCGATCTCTTGACCTCATGATCCACCCACCTCGGTCTC
CCAAAGTGCTGGGATTACAGGCTTGAGCCACCGGGTGACCGGCTTACAGGGATATTTTTAATCCCGTTATGGACT
CTGTCTCCAGGAGAGGGGTCTATCCACCCCTGCTCATTGGTGGATGTTAAACCAATATTCCTTTCAACTGCTGCC
TGCTAGGGAAAACTACTCCTCATTATCATCATTATTATTGCTCTCCACTGTATCCCTCTACCTGGCATGTGCT
TGTCAGTTCTAGTTGTTCAATAAATTTGTTAATAATGCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 645

MKMASFLAFLLLNFRVCLLLLQLLMPHSAQFSVLGPSGPILAMVGEDADLPCHLFPTMSAETMELKWVSSSLRQV
VNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYL CYFDGDFYEKALVELKVAALGSDL
HVDVKGYKDGGIHLECRSTGWYPQPQIQWSNNKGENIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSTIRSS
LLGLEKTASISIA DPF FRS AQRWIAALARTLPVLLLLLGGAGYFLWQQQEEKKTQFRKKKREQELREMAWSTMKQ
EQSTRVKLLEELRWRSIQYASRGERHSAYNEWKKALFKPADVILDPKTANPILLVSEDQRSVQRAKEPQDLDPNP
ERFNWHYCVLGCESFISGRHYWEVEVGDRKEWHIGVCSKNVQRKGWVKMTPENGFWTMGLTDGNKYRTLTEPRTN
LKLPPKPKVGVFLDYETGDISFYNAVDGSHIHTFLDVSFSEALYPVFRILITLEPTALSICPA

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FIGURE 646

AATTCCGGAATTCCCCGGCCTGGCCAGGGCGGAGCGGCGCCAGTAGGGACCCATTTCATTGTGCCGGCGCCTCAC
TGGGCACGGGGCCCAAGCTGACGGCGTGACGGGAGCCTGCGGAGCCTGGGTGGGAAGAACAGGCCCCTGGAGGG
CACTTGACCTTAAGCCTCTTTTCTCCGCAGAGAGGAAGCGGGAGAGGAGCCACGTCGCCTGTACCCCAATATC
TCCAGCCGCGCAGTCCCGAAGAGTGTAAGATGTTTCGCCTGCGCCAAGCTCGCCTGCACCCCCTCTCTGATCCGAG
CTGGATCCAGAGTTGCATACAGACCAATTTCTGCATCAGTGTTATCTCGACCAGAGGCTAGTAGGACTGGAGAGG
GCTCTACGGTATTTAATGGGGCCCAGAATGGTGTGTCTCAGCTAATCCAAAGGGAGTTTCAGACCAGTGCAATCA
GCAGAGACATTGATACTGCTGCCAAATTTATTGGTGCAGGTGCTGCAACAGTAGGAGTGGCTGGTTCTGGTGCTG
GTATTGGAACAGTCTTTGGCAGCCTTATCATTGGTTATGCCAGAAACCCTTCGCTGAAGCAGCAGCTGTTCTCAT
ATGCTATCCTGGGATTTGCCTTGCTGAAGCTATGGGTCTCTTTTGTTTGATGGTTGCTTTCTTGATTTGTTTG
CCATGTAACAAATTACTGCTTGACATGTTGGCATTTCATATTAATTACGGATGTAATTCTGTGTATCTTACTGTGA
CTCCGAAAACGTAGTATTGGTGTTCATGGGAATGTACGTTATTTCCAAAGTCATTTTCATTAAAGATGAAAACTTT
A

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FIGURE 647

MFACAKLACTPSLIRAGSRVAYRPISASVLSRPEASRTGEGSTVFNGAQNQVSQLIQREFQTS AISRDIDTAAKF
IGAGAATVGVAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILFAM

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FIGURE 648

GGCACGAGGGGAGTGGAAAGTTCTCCGGCAGCCCTGAGATCTCAAGAGTGACATTTGTGAGACCAGCTAATTTGA
TTAAATTTCTCTTGGAATCAGCTTTGCTAGTATCATACCTGTGCCAGATTTTCATCATGGGAAACAGCTGTTACAA
CATAGTAGCCACTCTGTTGCTGGTCCTCAACTTTGAGAGGACAAGATCATTGCAGGATCCTTGTAAGTAAGTGGCC
AGCTGGTACATTCTGTGATAATAACAGGAATCAGATTTGCAGTCCCTGTCCTCCAAATAGTTTCTCCAGCGCAGG
ACAAAGGACCTGTGACATATGCAGGCAGTGTAAGGTGTTTTTCAGGACCAGGAAGGAGTGTTCTCCACCAG
GCAGAGTGTGACTGCACTCCAGGGTTTCACITGCCTGGGGGCAGGATGCAGCATGTGTGAACAGGATTGTAA
AGGTCAAGAACTGACAAAAAAGGTTGTAAAGACTGTTGCTTTGGGACATTTAACGATCAGAAACGTGGCAT
GTGTCGACCTGGACAAACTGTTCTTTGGATGGAAAGTCTGTGCTTGTGAATGGGACGAAGGAGAGGGACGTGGT
GGACCATCTCCAGCCGACCTCTCTCCGGGAGCATCCTCTGTGACCCCGCCTGCCCTGCGAGAGAGCCAGG
ATCTCCCGCAGATCATCTCCTTTCTTTGCGCTGACGTGCGACTGCGTTGCTCTTCTGCTGTTCTTCTCTCAC
CTGTTTCTCTGTTGTTAAACGGGGCAGAAAGAACTCCTGTATATATTCAAAACACCATTTATGAGACCAGT
AACTACTCAAGAGGAAGATGGCTGTAGCTGCCGATTTCCAGAAGAAGAAGAGGAGGATGTGAAGTGTGAAA
AAGTCAATAGGGCTGTTGGGACTTTCTTGAAAAGAAGCAAGGAAATATGAGTCATCCGCTATCACAGCTTTC
AAAAGCAAGAACACCATCCTACATAATACCCAGGATTTCCCCAACACACGTTCTTTTCTAAATGCCAATGAGTTG
GCTTTTAAAAATGCACCACTTTTTTTTTTTTTTTTGGACAGGGTCTCACTCTGTACCCAGGCTGGAGTGCAGTGGC
ACCACCATGGCTCTCTGCAGCCTTGACCTCTGGGAGCTCAAGTGATCCTCCTGCTCAGTCTCCTGAGTAGCTGG
AACTACAAGGAAGGGCCACCACACCTGACTAACTTTTTTGTGTTTTTGGTTAAAGATGGCATTTCACCATGTT
GTACAGGCTGGTCTCAAACCTTAGGTTCACTTTGGCCTCCCAAAGTGCTGGGATTACAGACATGAAGTGCCAGG
CCCGGCCAAAATAATGCACCACTTTTAACAGAACAGACAGATGAGGACAGAGCTGGTGATAAAAAAAAAAAAAA
AAAGCATTTTCTAGATACCACTTAACAGGTTTGAGCTAGTTTTTTTGAAATCCAAAGAAAATTATAGTTTAAATT
CAATTACATAGTCCAGTGGTCCAACATAATTATAATCAAAATCAATGCAGGTTTGTGTTTTTGGTGCTAATATGA
CATATGACAATAAGCCACGAGGTGCAGTAAGTACCCGACTAAAGTTTCCGTGGGTTCTGTGATGTAACACGACAT
GCTCCACCGTCAGGGGGGAGTATGAGCAGAGTGCTGAGTTTAGGGTCAAGGACAAAAACCTCAGGCCTGGAGG
AAGTTTTGGAAAGAGTTCAAGTGTCTGTATATCCTATGGTCTTCTCCATCCTCACACCTTCTGCCTTTGTCTGC
TCCCTTTTAAGCCAGGTTACATTCTAAAAATCTTAAGTTTAACTTTTAACATAATATTTTATACCAAAGCCAATAAATGA
ACTGCATATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 649

MGNSCYNIVATLLLVLNFERTRSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQRTCDICRQCKGVFRTR
KECSSTSNAECDCTPGFHC LGAGCSMCEQDCKQGQELTKKGCKDCCFGTFNDQKRGICRPWTNCSLDGKSVLVNG
TKERDVVCGPSPADLSPGASSVTPPAPAREPGHSPQII SFFLALTSTALLFLLFFLTLRFSVVKRGRKKLLYIFK
QPFMRPVQTTQEEDGCSCRFPEEEEGGCEL

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FIGURE 650

GACCACGCGTATCGATGTGACCCACAGGATTGTACAGAGGGCAGGGTGGTGACTGAGGACCAGCTCCTCATGC
TTGAGGCTGTGGTGATGCACCTCGGGATCCGCTCTGCCCCTGTGTCTTGGGCATGGAGGGTCAGCAGGTCATCC
TGCACCTGCCCCTATCCCAGAAGGGGGCCCTTCTGGACATGGGAGCCTAGTGCCCCTCGAACTCTGCTCCAGGTCC
TACAGGATCCAGCCCTGAAAAGACCTCGTCCCTACCTGCCCCACCCTGCCCCTGGCATTCCCTGATCCTGCGGCCCC
AGTATGAGATCCAAGCCATCATGCACATGCGCAGGACCATTGTCAAGATCCCTTCTACCCTGGAGGTCGACGTGG
AGGACGTACCCGCTCCTCCCGGCACGTCCACTTTATCAAACCGCTGCTGCTGAGCGAGGTCCTGGCCTGGGAAG
GCCCTTTCCCCCTGTCCATGGAGATCCTGGAGGTTCTTGAGGGCCGCCCATCTTCTCAGCCCGTGGGTGGGCT
CCTTGCAAAAAGGCCAGAGGCTTTGCGTCTATGGCCTAGCCTCACCACCCTGGCGGGTCTGGCCTCAAGCAAGG
GCCGCAAGGTGCCCAGGCACCTTCTGGTGTACAGGGGGCTACCAAGGCAAGCTGCGGCGGCGGCCAAGGGAGTTCC
CCACGGCCTATGACCTCCTAGGTGCTTTCCAGCCAGGCCGGCCACTCCGGGTGGTGGCCACAAAGGACTGTGAGG
GCGAGAGGGGAGGAGAATCCCGAGTTCACGTCCCTGGCTGTGGGTGACCGGCTGGAGGTGCTGGGGCCTGGCCAGG
CCCATGGGGCCCAGGGCAGTGACGTGGATGTCTTGGTTTTGTACGCGGCTGAGTGACCAGGCTGGGGAAGATGAGG
AGGAAGAGTGCAAAGAGGAGGCAGAGACCCAGAGCGGGTCTGTGCTGCCCTTCCACTTCCCTGGCAGTTTCTGTGA
GGAGATGAGTGACAGCCGGCGCTACAGCCTGGCAGATCTGACTGCCCAGTTTTCAATGCCTTGTGAGGTCAAGGT
GGTGGCCAAGGACACCAGCCACCCCAATGACCCTCAGAACCTCCTTCTTGGGCTGCGGCTGGAGGAGAAGATCA
CAGAGCCATTCTTGGTGGTGAGCCTGGACTCTGAGCTGGGATGTGCTTTGAGATCCCTCCCCGGAGGCTGGACCT
GACTGTCGTGGAGGCCAAGGGGCAGCCAGACTTGCCAGAGGGGTCTCTCCCATAGCCACAGTGAGGAAGCTGG
AACAGACACCTTTTATTATTGTCTTCGGAAGTTACCAGCCTGTGAGATCCAAGCCCCCCCCACCCAGGCCCCCTAA
AAATCAGGGCCTCAGCAAGCAGAGGAGACACAGCAGTGAGGGAGGCGTCAAGTCTTCTCAAGTCTTAGGATTGCA
GCAACACGTTTCGGCTGCCCCAAACCCAAAGGCGAAGACCTTGCCAGAGTTCATCAAGGATGGCTCCAGTACGTACAG
CAAGATTCTTGCCACAGGAAGGGCCACAGGCCCGCTAAGCCCCAAAGGCAGGATCTAGATGATGATGAACATGA
TTATGAAGAAATACTTGAGCAATTTAGAAAACCATCTAAGTGCTGGAGGAACCACGCTTCCCTAACTGCTGCTTC
TCAGGGAATCCGACACCAGCCAACCATTTTAAGCCTCTAAAAGACCTCGGGCAAGTCTCACAGAACTGAGCTGC
AGACGGGGAGTAGCTTTGTGGAACTGATTTGATGGACACTGCACCAGCTTCCTTCAGGTTCTAGATTCTTGCTA
CTTAGGGCGGGCTGGTTTGGACCTAACATCTCGCACGTGACTCCCTCAGCCTCAGAGCCTTGGGATGCAGAGCAG
CTGGCAGGGTTCTCTCAATCCTGCAACCCCAGCTGTCCCACCGGTGGATGCAGAGGGGAATCCGAGGCCATCAA
CCTTGGTGACAGCAGCGCAGTGCCAATGCTGATCACACTGCATGGGAGATTTTGTTAACGTCTGCCACCCCCACT
CTACCCCCAAGCTCTAAGCCCCGGGAGGCCTGGACTGTCTTCTCATCTCTGTAGCACCAAGCCTGATAGATC
TGTATATGGTAAACAGGGGTTTAACCACATGTGGTTAATGTTAAGGAAATTTGGCTTCAAGAACACAA
CCTTAGGACCTTGGGCCCCAAAAGCTGGTGGTGAAATGAGAGGAGCCAATTTAAGAAGACCTTATGGAGACCTG
AGGCTGCAGAACTGGTAGGTTTTCATCAGGTGGTTAAAGTCGTCAAAGTTGTAAGTGACTAACCAAGATTATTTT
ATTTTAAACACAGAATAAAAATGACACCTGAGCTTCTCC

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FIGURE 651

MEGQQVILHLPLSQKGFWTWEP SAPRTLLQVLQDPALKDLVLTCTLPWHS LILRPQYEIQAIMHMRRTIVKIP
STLEVDVEDVTASSRHVHF IKPLLLSEVLAWEGPFPLSMEILEVPEGRPIFLSPWVGS LQKGQRLCVYGLASPPW
RVLASSKGRKVPRHFLVSGGYQGKLRRRPREFPTAYDLLGAFQGRPLRVVATKDCEGEREENPEFTSLAVGDRL
EVLGPGQAHAQAQGS DVDVLVCQRLSDQAGED EEEEECKEEAETQSGSCCPSTSLAVSWRR

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FIGURE 652

CTAGCTCTGTGGGAAGGTTTTGGGCTCTCTGGCTCGGATTTTGCAATTTCTCCCTGGGGACTGCCGTGGAGCCGC
ATCCACTGTGGATTATAATTGCAACATGACGCTGGAAGAGCTCGTGGCGTGCGACAACGCGGCGCAGAAGATGCA
GACGGTGACCGCCGCGGTGGAGGAGCTTTTGGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGA
GTCGGCCAAGTTGATGAATGTGGACCCAGACAGCGTGGTCCTCTGCCTCTTGGCCATTGACGAGGAGGAGGAGGA
TGACATCGCCCTGCAAATCCACTTCACGCTCATCCAGTCCTTCTGCTGTGACAACGACATCAACATCGTGCGGGT
GTCGGGCAATGCGCGCCTGGCGCAGCTCCTGGGAGAGCCGGCCGAGACCCAGGGCACCACCGAGGCCCCGAGACCT
CCACTGTCTTCCCTTCCTACAGAACCCTCACACGGACGCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTA
CTGCGAAGAAAGCCGGGGCAACAACCAGTGGGTCCCCTACATCTCTCTTCAGGAACGCTTGAGGCCCTTCCCAGCA
GCAGAATCTGTTGAGTTGCTGCCAACAAACAAAAAATACAATAAATATTTGAACCCCTCCCCCCCAGCACACC
CCCCAAAACAACCCAACCCACGAGGACCATCGGGGGCAGGTCGTTGGAGACTGAAGAGAAAGAGAGAGAGGAGA
AGGGAGTGAGGGGCCGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTCCACTCGGGGGTGGAGTGAGACTG
ACTGCAAGCCCCACCCTCCTTGAGACTGGAGCTGAGCGTCTGCATACGAGAGACTTGGTTGAAACTTGGTTGGTC
CTTGTCTGCACCCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTGAAGTTGCTCTGTACCCATGAACT
CCCAGTTTGCGAATTAATAAGAGACAATCTATTTTGTACTTGCACTTGTTATTGCAACCACTGAGAGCGAGATG
GGAAGCATAGATATCTATATTTTTTATTTCTACTATGAGGGCCTTGTAATAAATTTCTAAAGCCTCAAAAAA

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FIGURE 653

MTLEELVACDNAAQKMQTVTAAVEELLVAAQRQDRLTVGVYESAKLMNVDPDSVVLCLLAIDEEEDDIALQIHF
TLIQSFCCDNDINIVRVSGNARLAQLLGEP AETQGTTEARDLHCLPFLQNPHTDAWKSHGLVEVASYCEESRGNN
QWVPYISLQER

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FIGURE 654

CCCAGCTCCCTGAAACAACAGTAACCTACCCCTGTGGGTTCATCATCATGCCCCTCCGACCTGGCCAAGAAGAAGGC
AGCCAAAAGAAGGAGGCTGCCAAAGCTCGACAGCGGCCAGAAAAGGACATGAAGAAAATGGAGATGTTGTCAC
AGAACCACAGGTGGCAGAGAAGAATGAGGCCAATGGCAGAGAGACCACAGAAGTAGATTTGCTGACCAAGGAGCT
AGAGGACTTTGAGATGAAGAAAGCTGCTGCTCGAGCTGTCACTGGCGTCCTGGCCTCTCACCCCAACAGTACTGA
CACATCATCAACCTCTCACTCACCTTTCATGGTCAAGAGCTGCTCAGTGACACCAAACCTGGAATTAACTC
GTCGTTATGGCCTCATTGGTTTAAATGGAATTGGAAAGTCCATGCTGCTCTCTGCTATTGGGAAGCGTGA
GCCATCCCTGAGCACATCGACATCTACCATCTGACTCGAGAGATGCCCCCTAGTGACAAGACACCCCTTGCA
GTGTGATGGAAGTCGACACAGAGCGGGCCATGCTGGAGAAAGAGGCAGAGCGGCTGGCTCATGAGGATGCGGA
TGAGAAGCTCATGGAGCTCTACGAGCGCCTGGAGGAGCTGGATGCCGACAAGGCAGAGATGAGGGCCTCGCG
TTGTCATGGACTGGGTTTACACCTGCCATGCAGCGCAAGAAGCTAAAAGACTTCAGTGGGGCTGGAGGAT
GTTGCCCTTGCCAGAGCCCTCTTTATTCGGCCCTTCATGCTGCTCCTGGATGAGCCTACCAACCACCTGGA
AGATGCTTGCGTGTGGTTGGAAGAAGAACTAAAACTTTTAAAGCGCATCTTGGTCTCGTCTCCCATTTCCCA
ATTTTCTGAATGGTGTCTGTACCAATATCATTACATGCACAACAAGAACTGAAGTATTATACGGGTAAATTA
ATCAGTATGTGAAGACGCGGCTAGAGCTGGAGGAGAACCAGATGAAGAGGTTTCACTGGGAGCAAGATCAGAT
TGCAACATGAAGAACTACATTGCGAGGTTTGGTTCATGGCAGTGCCAAGCTGGCCCGGCAGGCCAGAGCAAGGA
GAAGACGCTACAGAAAATGATGGCATCAGGACTGACAGAGAGGGTCGTGAGCGATAAGACACTGTCATTTTATT
CCACCATGTGGCAAGATCCCTCCACCTGTCATTATGGTGCAAAATGTGAGCTTCAAGTATACAAAAGATGGGCC
TTGCATCTACAATAATCTAGAATTTGGAATTGACCTTGACACACGAGTGGCTCTGGTAGGGCCCAATGGAGCAGG
GAAGTCAACTCTTCTGAAGCTGCTAACTGGAGAGCTACTACCCACAGATGGCATGATCCGAAAACACTCTCATGT
CAAGATAGGGCGTTACCATCAGCATTTACAAGAGCAGCTGGACTTAGATCTCTCACCTTTGGAGTACATGATGAA
GTGCTACCCAGAGATCAAGGAGAAGGAAGAAATGAGGAAGATCATTGGGCGATACGGTCTCACTGGGAAACAACA
GGTGAGCCCAATCCGGAACCTGTGACAGCGGCAGAAAGTGCCGAGTGTGTCTGGCCTGGCTGGCCTGGCAGAACCC
CCACATGCTCTTCTGGATGAACCCACCAATCACCTGGATATCGAGACCATCGACGCCCTGGCAGATGCCATCAA
TGAGTTTGAGGGTGGTATGATGCTGGTCAGCCATGACTTCAGACTCATTACAGCAGGTTGCACAGGAAATTTGGGT
CTGTGAGAAGCAGACAATCACCAAGTGGCCTGGAGACATCCTGGCTTACAAGGAGCACCTCAAGTCCAAGCTGGT
GGATGAGGAGCCCCAGCTCACCAAGAGGACCCACAACGTGTGCACCCTGACATTGGCATCTCTGCCAAGGCCATG
AGCATCATGAACTCGTTTGTAAACGACGTGTTTGAAGCAGCTGGCGTGTGAGGCTGCCCGGCTGGCCAGTACTCG
GGCCGGACCAACCTGACATCCCGAGAAGTCCAGACGGCTGTGCGTCTGCTGCTGCCTGGGGAGCTGGCCAAGCAC
GCTGTGCTGAGGGCACCAAGGCTGTACCAAGTACACCAGCTCCAAGTGACCCAGGGCCTGACAAAATAAAGG
GTGAACTGTTAAAAAAAAAAAAA

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FIGURE 655

MPSDLAKKKAAKKKEAAKARQRPRKGHEENGDVVTEPQVAEKNEANGRETTEVDLLTKELEDFEMKKAAARAVTG
VLASHPNSTDVHIINLSLTFHGQELLSDTKLELNSGRRYGLIGLNGIGKSMLLSAIGKREVPPIPEHIDIYHLTRE
MPPSDKTPLHCVMEVDTERAMLEKEAERLAHEDAECCKLMELYERLEELDADKAEMRASRILHGLGFTPAMQRKK
LKDFSGGWRMRVALARALFIRPFMLLLDEPTNHLDLDACVWLEELKTFKRILVLVSHSQDFLNGVCTNI IHMHN
KKLKYYTGNYDQYVKTRLELEENQMKRFHWEQDQIAHMKNYIARFGHGSAKLARQAQSKEKTLQKMMASGLTERV
VSDKTLSFYFPPCGKIPPPVIMVQNVSFKYTKDGPCIYNNLEFGIDLDTVALVGPNGAGKSTLLKLLTGELLPT
DGMIRKXSHVKIGRYHQHLQEQLDLDLSPLYMMKCYPEIKEKEEMRKIIIGRYGLTGKQQVSPIRNLSDGQKCRV
CLAWLAWQNPMLFLDEPTNHLDIETIDALADAINFEFGGMLLVSHDFRLIQQVAQEIWVCEKQTITKWPGDILA
YKEHLKSKLVDEEPQLTKRTHNVCTLTLASLPRP

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FIGURE 656A

CACCAGGTGAATGGCTAAAGAATCTGGAATAAGCTTGAAAGAAATACAGGTCCTGGCAAGGCAATGGAAAGTTGG
TCCTGAGAAAAGGGTGCCAGCGATGCCTGGATCGCCTGTGGAAGTGAAGATACAGTCCAGATCCTCACCTCCCAC
CATGCCACCCCTCCCACCAATAAATCCTGGAGGACCGAGGCCAGTGTCTTCACTCCTACTGCATTAAGCAATGG
CATCAACCATTCTCCTCCTACCCTGAATGGTGCCCCATCACGCCACAGAGATTAGCAATGGTCCTGCCTCCTC
CACATCATCTGCACTCACAAATCAGCAATTGCCAGCCACTTGTGGTGCTCGACAACTCAGCAAGTTGAAACGCTT
TCTTACCCTCTGCAACAGTTTGGCAATGACATCTCCCCTGAGATTGGGGAGAAGGTGCGGACTCTTGTCTTGC
ACTGGTGAACCTCAACAGTGACAATTGAGGAATTCCACTGTAAGCTCCAAGAAGCCACAACTTTCCCCTTCGTCC
TTTTGTGATTCCATTTCTCAAGGCCAACCTGCCCCTGCTGCAGCGGAACTGCTGCACTGCGCTCGGGCGGCCAA
GCAGACCCCATCCCAGTACCTGGCTCAGCACGAACACCTTCTGCTCAACACAAGCATTGCATCGCCTGCTGACTC
GTCAGAGTTGCTCATGGAGGTGCACGGAAATGGGAAGAGGCCAGTCCAGAGAGGAGAGAAGAGAATAGTTTGA
TAGAGACACAATTGCTCCTGAGCCTCCTGCCAAGAGAGTATGTACCATCAGCCCTGCTCCTCGGCACAGTCCCTGC
TCTCACTGTGCCCCCTCATGAATCCCGGGGGCCAATTCCATCCTACCCCTCCACCTCTTCAGCATTACACCTTAGA
GGATATTGCAACTTCTCACCTGTATCGGGAACCCAACAAGATGCTAGAGCATCGAGAAGTTCGTGATAGACACCA
CAGTCTTGGTCTAAATGGAGGCTATCAAGATGAGTTGGTAGATCATCGTTTGACAGAAAGGGAATGGGCTGATGA
ATGGAACATCTTGACCATGCGCTGAATTGCATTATGGAATGGTAGAGAAAAACAAGGCGCTCTATGGCAGTTCT
GCGGCGCTGTCAGGAATCAGATCGTGAAGAACTCAACTACTGGAAGACGGTACAATGAAAACACAGAGCTGAG
GAAAACGGGGACCGAGTTGGTCTCCAGGCAGCACAGCCCTGGGAGTGCAGATTCTCTCAGCAATGATTCTCAGAG
AGAGTTCAACAGCAGGCCAGGTACAGGATACGTACCTGTGGAGTTTGGAAAAAACAGAAGAAGCTGTGAATAA
GGTGAAAATTGAGCCATGTCAGAAGTACAGAAGGCCGTGCTGAGGCAGAGCAGAAAGCCTTTGAAGTGATTGC
AACAGAGAGAGCACGAATGGAGCAAACCATAGCGGATGTCAAGCGGCAGGCCGAGAGGATGCTTTCCTCGTCAT
CAATGAGCAAGAGGAGTCCACGGAGAAGTCTGGAAGTGTGGCCGCAAGCCAGCGAGACATGCAGTGGCTGCAA
TATCGCGCGATACTGTGGCTCTTTCTGCCAGCACAAAGGACTGGGAGCGGCACCACCGCCTCTGTGGTCAGAACCT
GCATGGCCAGAGCCCCACGGCCAGGGCCGGCCGCTGCTTCTGTAGGCAGGGGCTCCTCTGCCAGGTCCGCCGA
CTGCAGCGTGCCAGCCAGCCCTCGACAAGACCTCGGCAACCACATCGCGTTCCTCAACACCTGCTTCTGTGAC
AGCTATCGACACCAACGGACTCTGAGCCCCGACTCTGCTTACCCTGATGGCTGCTCAGCACACAGAGTGCTTG
GGCTGAGGGACTGACTGTTGGAACCCGTGCATGTAGCTGCCGGGTATCAGCAAGAAATGAATTGGAGGCAGGAA
GAGTCCAAGCCTGAATAATAACACCCACAGCCTCTCTGTGCACTTGCTGTCTGCGGAGCCAGTGTGCCATTCTC
TGCACATGGGCAGCCAGCCTGAGCTGCCTCCTCCATGGCTTTCCTGGTTTGTTCCTCTCTCCACTGAAGCTGACT
TAGCCGGCCCCCTTTTCAGTGTAGACCACAGCTCCCCCTCCCCATCTCCTTGAGTCAGCAGACTGTCCAATGTGCT
CAGCCAGGCTGGAGGCGGCAGGCGGCAGGCAGCAGGCTGTGGAGGAGGCCCTCGGTGAGGGAGCGGCCTGCCTC
ACCCCTGAATAGCTCCTTCGGCCCCATCTCCATCCTCAGCAGATGACACTGATTGGCCTCACGGGGACTTGGGTA
AGCAACAGGCGGCATTGAGGACTCTTCTCAACCCTGCTGTTGAGACTTGATAAGATCTCAGAGTCCACAGGAAAG
AAGTCACTGTTGCAATAAAAGCACCCGTAGTAGCAAAACATAAACAATAAAACTTCCCCACATCAGATGA
TTTTGGACAAGATTTTCCAACCTTGCTGGCTACTTTAGTTTGGGACCTGTTTTTTTTCTCATTTGATTTTGCTTG
TGCAGAAAATAGTTTCCAGCACATGGATTGATCTGAGAGAGAATGAGGCTCAGTTGTGGATAGTCTGTTTTCTCT
GAGCATGTTGGCCAACTAGTATCGTCAAAATTATTGAGTGGATCATCTCTTGGAATGCAGAACTTCTGCCACCAC
TTGGCTATTTGCACAGTCATCTTGTCTGTGTCTTTTATCTCTCAGACCACACACATCTGGAACGCTGTGGGCA
TCTTCTGCCCATGGGCTCCATTTGGCACCTGCTGAGCCACAGTTGTCTGCTGGATGTGCTGTGCAGGTTGGTAG
GACTTGCCCCCACTGTCAAGGCCTGGTCTCATCTGAAAAGCCCTCCTGGACCTCAAAGAATTCTTCAGACCTCAT
AGTTACAGGTCAATTATCTACTATGTTGATTTATCATCAGGCACACAACCTTCTGTTTCTCTTCTGTGTTATC
TGATAGCGTCCCTCCTTGAGCTCATCAGAAAGTTTTATGAAATGTGAACCAATTTGGGAAAAGCTGATCAATTT
TTCTTCTAGCTTCCCATTTTCAATGGGACATCACTCATATCCCTTTCAGAATGTTAGGAACTGCCTCCCACAT
TCTTCCCTGTCTTTTTGGGTTTTGTTTTTGTGTTGTTGTTGTTTTTAAACACAAAGCCTGGGCAACAGAGCAA
AACTCTGTCTCAAAAAAAAAAAAAAAAAAGGCAAAATTAAAGAATTTCAAGTCCCTAATTTACTCTAACCAAGCAT
TTTCAGTCTTACAAAGAAATCTAGTGACGACACCTTTAAATGCCTAGATTTCCATTGCCTAAAGTAAGGTGTG
ACCAGTGAAACAACAGCAGAGAATCATGTTCCCTTGTGCTGTGGAACACATAAGCCCCACAGTTTCCAGTCAGCCT
AATACATGGGTATCCCCGACCCCATCTGCCTCCTTAAGCCACAGTCCTTGGTGGGGAACTCTAAGGGGGACGGA
GTCAGTACCCCGGACAGGGCCACATTTGCATGAGACATGGCTGTCTCACAGGTCACAGAGCCATTACAACAGCTT

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FIGURE 656B

ACTAGTTTTTCATGGATTTGTTGGATTAACACCTTAAGCAGGTTTTTTATTGTTATTTTGTGTTGTTGTTT
TGAGACGGGAGTTTCTCTCTTGTCTCCCAGGCTGGAGTGCAATCGCGCAATCTCGGCTCACGGTAACCTCTGCCT
CCCAGGTTTCGGGCGAGTCTCCTGCCTCAGCCTTCTGAGTAGCTGGGATTGCAGGCATGCGCCACCACGCCAACT
GATTTTGTATTTTGTAGTGGAGACGGGGTTTCTCCTTGTGGTTCAGGCTGGTCTCAAACCCCGGACCTCAGGTGAT
CCCCCACCTTGGCCTCCCAAAGTGCCAGGATTACAGGCATGAGCCACTGTGTCCGGTCTTGAGCAGGTTTTTAA
AATCTCCAGTGGCCATAAAACTAGCCAGGGTAGCTCATGCTTTTACTGGTTGGAATAAGGAGCCAAAACCAACAA
AATAATATTTATTAGGGTTGGATGCCCATTTCTGTGGTTAAGGCTTAGGTTTGGTGTGCAGAGCCTGGCCTGCTC
TTGTGGGCTGTGGTTGCTGTGACAGTTTCGTTTTCTGAATCTTTGTAATGCTCTTCCACCCTGCTCGTGCTGCCC
AGAGGCTGATCTGCAAACCTGGGCAGTATTCCACACTGAAGCTCAGTTTGCAAACCTTCTGCTGTGTTAATTCTG
GTCAGTTTTCACACAGAAGTCACGAGGGCCTCTGCCAGGACCTTCTATTACATTTCAAGAATCCCTTTCTGAAA
TTCTCCAACCTCTCTGGTCAGGAGGAGGAGCACCATTGGGGCGGGGTAGGCAGCTAGAGGCGCAGGAGCGAATCCA
GGTTCTTTCGCTGGTTCCACGCTCTGCTGACAGCACCTCAGCTACCAGGTGGGGAGTGGAATTCAGCCTGCTT
AGAGGACTGACCTCTACAGTTCATATTTGCAGTGACATAAAAGGCAAAGAGGAGCTGGCATGGTGGTACAGAAGG
TATCAGTCAAGCGCAGGCTCTTCAGAAACCTAGAAACTAAAAAGAGATGCAACATGTGACTGGCCATCAGCCAGA
CATGTCTAGGGTGAGACCAGTGCTCAGCACCACCCGCCAAGGAACACTGATGAGTTGTGGGACATTATGGTCGGC
CAAGTGAGGAATGATTGCAGGGACCAGAGAAGACCAAAGATGCCAGATGTCCCAGAGTTTCTTGAGGGCTGGGT
TTCACGTCTTTGCTTGTCTTTTTGTCCCCACTTGCTGACCCGTGCTGACTCATCCAGTGGGGAAGGTGACTC
AAGAAGTTGTTTAAGCCTAGGCCTAGGCAGTCCACTTCGGGAGGTGGGGGCACTCCACACTGGGGGGCCCTGCAG
CTCCAGGGCTGGTGTCTAGCAGATCCGCTCAGGCACGGTTGGGTGACCGTGGGGTCACCGATTGCGTAGATTAT
TTCTAGGGCAGTGCTGGGTTAGAAATGTCTGTCTGGAAACAGGACACATCTTGCCACCACAAGTCCACACCTGGC
CTTGCTGCTGCCCCGCTCTCTGCAGCGTGGATTTCTTTGCCCATTTGGGCCAGAAGGTCACCAGGAGTTCATCA
CTGCTTAGTGTCAACTTGACATCTTCAGCTTCCAGACAGAAAACCCATGCTTTACTTTGTACAGCCCTGTCCAG
AGTTAGTAAGCCTCGGCTTGTACCTGCTTGCAAAGGGTATAGACATCATTCTGGGTAGTTCTAGAGGATATCGC
AACAAGTGCCTTTGAAGGTTTCAGCACAGCTGGAATTGTACGGTAGTGAGCTCTTCAAATGAAAACAGAATGACC
GGATGGCCATCTGTCTGGAACCTGTAGAATTGAATAAATCACTGAAAATAGAACACTTCTTGAGGCTTTCTTC
AGAAGTGAAGTGAAGGTTTCCAGGCTCCAGGTCAGTAGACCAAACCAACTTCTTAGATTTTTTTTTTTT
AAGCTGTTTGCAGAAAACCTGGGTGGTAGCGTGTCTGAACCAAACGGAAGAATAGCCAGCGGAGCATGGACTGTTC
CAGCACGGGCCAGATGGCCAGCTGTGAGAGCAGCCCTGCCAGATTGCGGTGGGGCTGTGCCAGCGGCTCCGC
AGGGCCCTTCCAACCTCTGGAGTGTCTGTAGTTCTTGTGAAACCAAACGTTGACTACCTGCCTCTTTCTCGGGC
ATCGACGTGCTCATTTCCAAAGATGATGGTGCAGGTGACCTTTTCCATCGTGAGCTAAGAGAAGGTTAGGAGGCC
TGAGGGGCGGGCTTGTGTCCCTCCTCCCCCTCCACAGCCCTGAGGTGGAGCTTCCCTCACAGACCCCATCTG
GTCGAGCCTACGGCTGCCAGTGTACACTCAGTGATGCTTATACCAAATAGGGCATGTGCGCTGGTGTCTGTGG
GGACAGCCCCATCCCTACCTTGGAGTCGGCAGAGAAGCAGCAATAAGCATTAGGCGAATGATTGAAAGGGCTGCT
GCGCCAAGAGGCCTTCAGTCCCCCTAACGTGGCTTTCCAACCTTCTGACGAGGCTACAAAGGCTCCGCTCACAAA
AGAAAGCCAATAATGTAAATAAATAGAAAACGAAGCCTCCACGCGTGGTTTTTAAAGGGGGATGATGAATGTGAC
ACCACCCACAGAATGCATTAGAATCTGGTTTTTCTGTGCTTTGTCAATTTTACTCTGATAGGAATTTTTGTTACCT
AACTCTGTGCATAACTTATTTAATGTACTGTATAAATGAACCAAACTGTTAAATATGTATTTAGTTTGTCTAC
TTAAAGTAGTCAATAAAAAGGCTATATTCCT

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FIGURE 657

MAKESGISLKEIQVLARQWKVGPEKRV PAMP GSPVEVKIQSRSSPPTMPPLPPINPGGPRPVSF TPTALSNGINH
SPPTLNGAPSP PQRF SNGPASSTSSALTNQQLPATCGARQLSKLKRFLTTLQQFGNDISPEIGEKVRTLV LALVN
STVTIEEFHCKLQEATNFPLRPFVIPFLKANLP LLQRELLHCARA AKQTPSQYLAQHEHLLLNTS IASPADSSEL
LMEVHGNGKRPSPERREENSFDRDTIAPEPPAKRVCTISPAPRHSPALTVP LMNPGGQFHPTPPPLQHYTLEDIA
TSHLYREP NKMLEHREVRDRHSLGLNGGYQDELVDHRLTEREWADEWKHLDHALNCIMEMVEKTRRSM AVLRR
QESDREELNYWKRRYNENTELRK TGTELVS RQHSPGSADSL SNDSQREFNSRPGTGYVPVEFWKKTEEAVNKVKI
QAMSEVQKAVAEAEQKAFEVIATERARMEQTIADV KRQAAEDAF LVINEQEESTENCWNCGRKASETCSGCNIAR
YCGSFCQHKDWERHHRLCGQNLHGQSPHGQGRPLLPVGRGSSARSADCSVPSPALDKTSATT SRSSSTPASVTAID
TNGL

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FIGURE 658

GAATTCGGCCAAAGAGGCCTATGCTTCTCTGAAGACTTGCAGCAAGGCTTGCTGAGGCTCACAGAAGATAGCCCC
AGTGTTTTGGAGTGGTTTTGAATGTGATTCTGAGATCAGACTGACTGAGCTGGAATCCTGGCTTTATATCTTACC
AGCTACACAACCTTGGAGTCTTAGAAATTTTTCTTTTCAATAAGCAGTCATCCTTACTTTCCCTCAAGATGACA
AACAGTTCGTTCTTCTGCCCAGTTTATAAAGATCTGGAGCCATTACGTATTTTTTTTTATTTAGTTTTCTTGTT
GGAATTATTGGAAGTTGTTTTGCAACCTGGGCTTTTATACAGAAGAATACGAATCACAGGTGTGTGAGCATCTAC
TTAATTAATTTGCTTACAGCCGATTTCTGCTTACTCTGGCATTACCAAGTGAATTTGTTGTTGACTTGGGTGTG
GCACCTTGGAAGCTGAAGATATTCCACTGCCAAGTAACAGCCTGCCTCATCTATATCAATATGTATTTATCAATT
ATCTTCTTAGCATTGTGTCAGCATTGACCGCTGTCTTCAGCTGACACACAGCTGCAAGATCTACCGAATACAAGAA
CCCGGATTTGCCAAAATGATATCAACCGTTGTGTGGCTAATGGTCCTTCTTATAATGGTGCCAAATATGATGATT
CCCATCAAAGACATCAAGGAAAAGTCAAATGTGGGTGTATGGAGTTTAAAAAGGAATTTGGAAGAAATTGGCAT
TTGCTGACAAATTTTCATATGTGTAGCAATATTTTTAAATTTCTCAGCCATCATTTTAATATCCAATTGCCTTGTA
ATTCGACAGCTCTACAGAAACAAAGATAATGAAAAATTACCCAAATGTGAAAAAGGCTCTCATCAACATACTTTTA
GTGACCACGGGCTACATCATATGCTTTGTTCCCTTACCACATTGTCCGAATCCCGTATACCCTCAGCCAGACAGAA
GTCATAACTGATTGCTCAACCAGGATTTCACTCTTCAAAGCCAAAGAGGCTACACTGCTCCTGGCTGTGTGCGAAC
CTGTGCTTTGATCCTATCCTGTACTATCACCTCTCAAAGCATTCCGCTCAAAGGTCAGTCTGAGACTTTTGCCTCA
CCTAAAGAGACCAAGGCTCAGAAAGAAAAATTAAGATGTGAAAATAATGCATATAAAGACAGGATTTTTTGTGCTA
CCAATTCGGCCTTACTGGACCATAAAGTTAATTATAGCTTTGAAAGATAAAAAAAAAAAAAAGCGGCCGC

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FIGURE 659

MTNSSFFCPVYKDLEPFTYFFYLVLVGIIGSCFATWAFIQKNTNHRCSVSIYLINLLTADFLTLALPVKIVVDL
GVAPWKLKIFHCQVTACLIYINMYLSIIFLAFVSDRCLQLTHSCKIYRIQEPGFAKMISTVVWLMVLLIMVPM
MIPKDIKEKSNVGCMEFKKEFGRNWHLLTNFICVAIFLNFSAILISNCLVIRQLYRNKDNENYPNVKKALINI
LLVTTGYIICFVPYHIVRIPYTLSQTEVITDCSTRISLFKAKEATLLAVSNLCFDPILYYHLSKAFRSKVTETF
...ETKAQKEKLRCECNA

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FIGURE 660A

TTGAGGTGCATTGAAATGTTCCAAGCTGTTACTTACCTTAACATGTTCTTGAGGTACCATGGCATGGATTAAAAG
GAAATTTGGTAAGTGGCCTCCACTTAAACGACTTACTAGGGAAGCTATGTGAAATTATTTAAAAGGGCGAGGGGA
TCAAATAGTACTTATCCTTCATGCAAAAGTTGTACAGAAGTCATATGGAATGAAAAAGGTTTTTGGCCCTCCCC
TTGTGTATATCTTATGGGCAGTGGATGGAAGAAAAATAAAATTACAAATGAAATGCGATGGTTGTTCTGAACAAGG
CTCTCATCCATGTGCATTTATTGGGATAGGAAATAGTGACCAAGAAATGCAGCAGCTAAACTTTGGAAGGAAAGAA
CTATTGCACAGCCAAAACATTGTACATATCTGATTTCAGACAAGCAAAAGCACTTCATGTTGTCTGTAAAGGTGTT
CTATGGCAACGGTGATGACATTGGTGTGTTCCCTCAGCAAGTCGTCCAAACCTTCCAAAAAGAAGCAGTCATTGAA
AAATGCTGACTTATGCATTGGCTCAGGAACAAAGGTGGCTCTGTTTAATCGACTACGATCCCAGACAGTTAGTAC
CAGATACTTGATGTAGAAGGAGGGAATTTTCATGCCAGTTCACAGCAGTGGGGAGCATTTACATTATTCTTGGA
TGATGATGGATCAGAAGGAGAAGAATTCACAGTCAGAGATGGCTACATTTCATTATGGACAAAACAGTCAAGCTTGT
GTGCTCAGTTACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCAGACCACATTATTGGATGC
AGATGATCCTGTGTCAAACTCCATAAATGTGCATTTGACCTTGAGGATACAGAAAGAATGTACTTATGCCTTTC
TCAAGAAAGAATAAATTCATTTTCAGGCCACTCCATGCCCAACAGAACCAATAAAGAGATGATAAATGATGGTGC
TTCCTGGGCAATCATTAGCACACATAAGGCGAAGTATACATTTTATGAGAGAATGGGCCCTGTCTTGGCCCTGGT
CATGCCTATGCCTGTCTAGAGAGCCTTAAGTTGAATGGCGGTGGGGACGAAGCAATGCTTGAACCTACAGGACA
GAATTTCACTCCAAATTTACGAGTGTGGTTTGGGGATGTAGAAGCTGAACTATGTACAGGTGTGGAGAGAGTAT
GCTCCGTGTTGTCCAGACGTTCTGCATTCTGAGAAGGTTGGAGATAGTTCCCAGCAACCAGTCCAGGTTTCAGT
AACTTTGGTCCGAAATGATGGAATCATATATTCCACCAGCCTTACCTTTACCTACACACCAGAAGCAGGGCCGCG
GCCACATTGCAGTGTAGCAGGCGCAATCCTTAAGGCCAGTTCAAGCCACGTGCCCCCTAATGAATTAACACAAA
CAGCGATGGAAGTTACACAAATGCCAGCACAAATTCACACAGTGTACATCATCTACACCAACAGTGGTATCCTG
AACTACCGTCTTTTTGCTAAGACTCAAACGGCTTGAGTGCAGCAAAAAGTTGACAAAAAAGGAAAAAAAATGAA
CAGTCTTTTGTGGTTTATTGGGAACTTTTCATACCAGGTGATACTATTCTAAAACCCCGTTGTCTCCCTGCAAG
TGCTGATTGAAATGCAGAAGCCACAGTAAAAAAGGAAAAAAGGAAAAAATCAAAATGT
ATAAATATTGGAATCAAGTTTTTCAGCTGTTTTGTTGGTTGGTTGGTTGGTTTTTGTGGTTTTGTTTAAAGG
GACAAGAAGTAAATAATGTGGCTGGAATACAAGTTGAACAACTAGAAGACACAAATCTAACATAGTTTTTATGG
ACCAAGGAACCTGTATATTGTATAAGCTTTAGTAAAGGTACATTTTCACCATACCTTTTTTTTATATCACGGTAT
TATAGTACACCTTGTTACCAATAGGTTGTTCTCTTCCCCACCCTCCTTTGAGCTTTGCTCTAAAATACATTCTGG
TTCCAAGCCTGACCATCCTTGTTTAAATCTATCATACTCTTCCAGGTTTTTTTTTTTGGTCTAAGGCTGGAACCTT
TTTCTTTTTTTTTTCAGCTGAAGTCTTATGACTTTTTTCATGAGTCAAAATTGTTTGGATTTCACGAAGTCAAACT
TGCAAAGGCCTGCATATTTTTTTTAAAGATTATATGAAGTCTGTGCAAAAAGCTTTAAAAAATGCCTCTGCCTTG
CCTGCATACATGCAATGTATGTAACCTAGTCTCTCTTCTCAGACACTGTTGGGTAGTTATTTCTGTGTTTTCTTT
TTTTAAAAAATATGGACTTATTGTGGTTTATCTGAGAGGTTCTAACATTACATGCAATTTGGTGTGGCATT
TAGCTATTATGAGTTATTGGCGCGAACTTGTTTGATATTGAAGTGTCTCTCCCTTTTCCCATGACGTAATACA
TAGGTGTGTTCCAGGATTTGTTTCAGGTTTTTCCCCCCTCCTAATCTGTACATAACTTGATTTTTGTGTAAGTT
AAACATTTTATTGAACTTGGAATGTTCCAGTGATTCATTTCAGCAGGGTATTTTCTGCCTTGTTGGCAAGTAG
CAAAAAATATGGGAAGTATTGCTACCAGTTGTAGATGGTGGCCCTTATTGGTAGAATCAGGAAAAATGTCCGCA
AAAGCATGTTTTATTATCTTTACTTTTTTGGGGGGTTGGAGGGGTAGCCTAGCCAGACATCATGTAATCTTAAA
ACATAAGATGCTTTTTATTAGATGATCAACTAAAAATAGCTGGAAGACAGTACTTTAGAAACAAAATAGTTAGTAA
GATATATAATGCAATGTAACCTATGTTTTCTCTGCTTTTTTTTTTGGTTTTTTTTCTTTTTTCC
AGTACTGAGCATCTCCACAAATGTCTCCTACTCAGAAAATGTTTCTTTTCTTCAGTTGAGATTTGGTGCATTCA
GGGTTGTAGGTTGGCCTTGCTTGCTAACCCGCCGTTTTTACCGTGCTTTATTCTGAACTTTGTTTATGCCTTG
TTTGGTTCTTCTGAAATTGCAGCAGACTCATTGGGCTACATTTAGTACAGGAACCACGTGTGTAATGTTATACAA
CACAGTCAGTAATACAATCATCCCTCTTAGAGTAAAACTACCTCTAGATTGTGTAAGCTTTTTACTGTCCATAA
AACAGGAGCCACAGTACCTTATGAATGCAAACTGTAACCTTCTACAGTGTTCACACAGAACATTGTCTTTCT
GGTGTCTGGGCTGTTTTTGAAGGTTTCCATTAAATAGACTTTTTAGAAATTATTATTAGTAGCATTTTTTTCC
AGCTTTGCGTCTTCATCACTCACTCAAGTGTGAGTATGCACTGTAAATATCTTCTAACATCTTTAAATCGCC
TTTTCTCAGTTTTTCAAGGGGAAGGTCATTTGTAAAGCACGTTAGGTGGTTAAATCAGTTATTGCGGTTTTCTCT
TACAGCAAGCCTTTTTAATCACCCCCAGGCTGCATTTTATTCTATATCGCCTTTTTTCTTCAAACTGTCTCCAAT

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FIGURE 660B

CATCCACTTCTCTCTTATAAGCTATTCCCTGCCTCACACCTAAATCTGTTTCAGTGATCAAGGGCAGAACTCATTG
TGGCCTTATCTTTCTTTGTTGTAATTGTTCACTGTCTCTTTCTTACAGACCACTTATTCTGAGTAGTAGTTATTC
CTCCCTATGGAGTCATGGCAGGAATCATTACACAGTGCTTTTGTTCAGAGCATGGACATGTTCCAGGTGCTGCTT
TGCTTTAACGGCCACAAGTTTCTCCACTTCTCAGGTTTGGTATTTAGTAAGGAATCAATTAAATTAACCAATAA
CAAAAGAGATACTTTTGAAGAACAACCTATTCTTTACCCATTTTGTAGCTCAAAAATAATTTTCAAGTTCATGA
CCTTATTAAAATGAACCTTGTGTTTTTTTAACAAACGCTCTATTTTATTTTGATAGTTTCTTTCCGAAGATAATTGA
AATATTATACTGTAACCTTTTCTTTTCTTTTTTGAAGTCCAAGAATGTACTTATACAGGATTTTCCCCACC
TATTTTTGGCCATTCTCATACCACAGACAAAAGAGTGAATGATTGTGCTAGTATTGTTTATCAGTAGTTC
TTTTGTAGCTGCTTACATTTTTTCTTTTCATGGTTTGTGAATCATTTTCAGTATGTAATTTATAGGAACCTTGTCCT
CTGGTATAGTAGACTGTGTGCCCTCCTCCAGGATGGCATTATTAGACATGCTGGTCATTTACCCTCAGAAAGACT
CTCTTATAGAATGGTGAGTGCTTCAGTTATAGTATGTTTGAATTTTAAAAAATTCCTGTTTAGAATGTATCTATG
CTCTCATGACTATGCAGTTTCTAACATACACATAGAAGCTGAGTCTCTGATCCAATATGTTTTTATTTGTTCCAT
TAATTTATCACATAGATTGGGAAGGCAAGCTAAAAGCCTTAAAAATGCCCTTTATATTTTGAGTGATTTTCAGCGT
TGAACACAGTATACTATCTAAATTTGCTGCTCACTTTCTTAAACTGTTGCAATTAAAGGCATGTTTATACATGAC
TAATCGTGAAATGTTTGTCACTCTTACTGCACAGACTTATCTGCAATCAAACCTGGTTAGTTTTTTTGTTTTGTTT
TGTTTTATTGTTTTTAATGAATCTGGTACCATCTGTGCTTTCACAAAAAACTTCCAATGCCATTTTTTGAGAACTA
ACCTAACAGTCATGCTAACCAGAAAATCCACTGGGGAGGAGGTTCCCTTTGAAACAAAATGCTGTTTCAGTTAGTAA
CCAAGTTACTTTGATTGCAAAAGCAGCTGTGTTTCTGATAAGTACTGAACAAATGTGTGTAATTTTCTGTGCCAG
ACTTATGACTTTGTTTTCAAGCACTGTAATGTGGGATGGATGGTTAGAAACAATAATATATAGGGTTTTCTGTAA
CCCTTTCAGGACTCAACTGTATCTCCTTTTGTTAATTTTCCCTGTGTTGTGATAAATTTGTTGCCAGCATTGAG
TACTGTGTTGGTGCAGATGAGGTTTATATCTCATTTTAGCTTATTTCTTGTACCTTTCAGCATGCCTACGCATTG
AGTCCTTAAGGGGTTTATTTTACAACTGTGCGCCTGAAGTTTATTAGCAATAAGATAGAAAATGAGCAAGTTTA
TACCATAATTTTGAGAAAAAAGAATCTGCTCAGTTCCATATTTTCATCCGTGAAAACTTGCAATACGAGCAGTT
TCAAGGAATAAATAAAAAGGAAATGAAACCATTGT

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FIGURE 661

MSGGWKKIKLQMKDGCSEQGSHPCAFIFIGNSDQEMQQLNLEGKNYCTAKTLYISDSKQKHFMLS VKVFY GNG
DDIGVFLSKSSKPSKKKQSLKNADLCIGSGTKVALFNRLRSQTVSTRYLHVEGGNFHASSQQWGAFTLFLDDDGS
EGEFTVRDGYIHYGQTVKLVC SVTGMALPRLIIRKVDKQTLLDADDPVSQLHKCAFDLEDTERMYLCLSQERI
IQFQATPCPTEPNKEMINDGASWAIISTHKAKYTFYERMGPVLALVMPMPVVESLKLNGGGDEAMLELTGQNFTP
NLRVWFGDVEAETMYRCGESMLRVVPDVLHSEKVGDSQQPVQVSVTLVRNDGIIYSTSLTFTYTPEAGPRPHCS
VAGAILKASSSHVPPNELNTNSDGSYTNASTNSTSVTSSTPTVVS

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FIGURE 662

GGGCGGCGGTTCGGCAGCAAGGCGGCGGTGCGCCGCCGAGCTGCAGTGACATGTCCAGCATGAATCCCGAATATG
ATTATTTATTCAAGTTACTTCTGATTGGCGACTCAGGGGTTGGAAAGTCTTGCCTTCTTCTTAGGTTTGCAGATG
ATACATATACAGAAAGCTACATCAGCACAATTGGTGTGGATTTCAAAATAAGAACTATAGAGTTAGACGGGAAAA
CAATCAAGCTTCAAATATGGGACACAGCAGGCCAGGAAAGATTTCGAACAATCACCTCCAGTTATTACAGAGGAG
CCCATGGCATCATAGTTGTGTATGATGTGACAGATCAGGAGTCCTTCAATAATGTTAAACAGTGGCTGCAGGAAA
TAGATCGTTATGCCAGTGAAAATGTCAACAAATTGTTGGTAGGGAACAAATGTGATCTGACCACAAAGAAAGTAG
TAGACTACACAACAGCGAAGGAATTTGCTGATTCCCTTGGAATTCGGTTTTTGGAAACCAGTGCTAAGAATGCAA
CGAACGTAGAACAGTCTTTCATGACGATGGCAGCTGAGATTAAAAAGCGAATGGGTCCCGGAGCAACAGCTGGTG
GTGCTGAGAAGTCCAATGTTAAAATTCAGAGCACTCCAGTCAAGCAGTCAGGTGGAGGTTGCTGCTTAAATTTGCC
TCCATCCTTTTCTCACAGCAATGAATTTGCAATCTGAACCCAAGTGAA

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FIGURE 663

MSSMNPEYDYLFKLLLLIGDSGVGKSCLLLRFADDTYTESYISTIGVDFKIRTIELDGKTIKLQIWDTAGQERFRT
ITSSYYRGAHGIIVVYDVTQESFNNVKQWLQEIDRYASENVNKL LVGNKCDLTTKKVVDYTTAKEFADSLGIPF
LETSAKNATNVEQSFMTMAAEIKKRMGPGATAGGAEKSNVKIQSTPVKQSGGGCC

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FIGURE 664

TCCCGTGGAGCAGAGGGGCAAAGTGGCAGGAACCTCTTAAAGGGCGAGACGGGCGGCGACCGAGAACGCGGTCCG
CCCGTCCCCGCCGACCCAGCCCAGAGAAGAGTTTAGTGACTGAGGCCGAAAATTCACAGCACCAACAGAAGGA
AGAGGGTGAGGAAGCCATAAACTCAGGCCAACAAGAACCTCAGCAGGAGGAATCTTGTCAAACAGCAGCTGAAGG
AGATAATTGGTGTGAACACAAGGTGAAAGCTTCTAATGGAGACACTCCTACACATGAAGACTTGACCAAGAACAA
CGGACATCAGAAAGCAGAGGACTTTCACGACTATTCTCCTCGTTTCTCAAAGGCCCAAATCTCAGGTGTC
JAAGAAGGCCAAAGAAGTAGAGTCAGATAAAGAAAAAGGTGAAGGAGGTCAGAAAGAGATAGAATTTGGAAC
CTTGTGATGAAGAGATCATTTTTAAAGGCCCAATTGCAGCTCCTGAACCGGAACCTCAAACAGACCCATCTTT
GGATCTTCATTCTTAAGCAGTGCAGAAACACAGCCTCACCATTACAATTAAGAATTATTTTTAGAGTCTTCTTA
CTGAAGCATGTGAATATTATCTCGATCGTTAAAAGTCTTGCTCAGGAAGAACTCAGAGAAGATCCAGATTCT
CTTAAGGAAGGAGAAGGACTTGAAGAGTGCTCCAAAATAGAAGTAAAGAAGAAAGCCCTCAATCAAAGCA
CTGAATTAAGCTTCCCAAAAACCAATCAGAAAACACAGGAACATGCACTGCAAGGTTTCTTTGTTGGAT
ACAGTTTTATGAATGTGTTGTGGAGAAACATGCTAAGGGACAAGATTTGCTTAAACGAGTATGTGAGCATCTC
CTTTTTGGAAGAAGACTATTTTGGTCTAGCCATTTGGGATAACGCAACCTCTAAGACATGGCTGGATTCCGCC
AAGAAATAAAAAAGCAGGTTTCGTGGTGTCCCTTGGAATTTTACATTTAATGTAAAGTTTTATCCACCTGACCCA
GCACAGTTAACAGAAGACATAACAAGATATTATTTATGTCTTCAGCTTCGGCAGGACATAGTTGCAGGACGTCTG
CCCTGTTCCCTTTGCAACCTTAGCATTATTAGGTTCTTACACCATCCAGTCTGAACTGGGAGACTACGACCCAGAA
CTCCATGGCGTGGATTATGTTAGTGATTTTTAACTGGCCCCGAATCAGACCAAGGAACCTTGAAGAGAAGGTCATG
GAACTGCATAAGTCATACAGGTCCATGACTCCAGCTCAGGCTGACTTGGAGTTTCTTGAGAATGCCAAAAGTTG
TCTATGTATGGAGTTGATCTTCATAAAGCAAAGGACTTGAAGGAGTAGATATCATCCTAGGTGTCTGCTCTAGT
GGCCTTCTGGTTTACAAAGATAAGCTGAGAATTAACCGCTTCCCTTGGCCCAAAGTGCTGAAGATTTCTTATAAA
CGTAGTAGCTTTTTTCATCAAGATTCCGGCTGGAGAGCAAGAGCAGTATGAAAGTACCATCGGATTCAAACCTTCCC
AGTTACCGAGCAGCTAAGAAATTATGGAAGTCTGTGTAGAATCATCACGTTTTTCAGATTGACATCTACAGAC
ACCATTCCCAAAAGCAAATTTCTTGGCTAGGATCCAAATTTGCATACAGTGGCCGGACTCAAGCTCAGACCAGG
CAAGCTAGTGCTCTAATTGACAGGCCTGCCCCACACTTCGAGCGTACAGCAAGTAAACGGGCGTCCCGGAGCCTC
GATGGAGCAGCAGCTGTCGATTCCGGCAGACCGAAGTCTCGGCCCACTTCTGCACCTGCCATTACTCAGGGTCAG
GTTGCAGAAGGTGGCGTCTAGATGCCTCTGCTAAAAAACAGTGGTCCCTAAAGCACAGAAGGAAACAGTGAAG
GCTGAAGTGAAAAAGGAAGACGAGCCACCTGAGCAAGCTGAGCCAGAGCCCACAGAAGCATGGAAGAAAAAGAGA
GAAAGACTAGATGGTGAAAACATTTATATCAGACATAGCAATTTAATGTTGGAGGATTTAGACAAGAGTCAAGAG
GAGATCAAAAAACATCATGCCAGCATCAGTGAGCTGAAAAAGAACTTCATGGAGTCTGTACCAGAACCACGGCCT
AGTGAATGGGATAAACGCTTATCCACTCACTCACCTTCCGAACTCTTAACATCAATGGGCAAATCCCCACAGGA
GAAGGACCTCCCTGGTGAAGACACAACTGTCAACATCTCAGATAATGCCAATGCTGTGAAAAGTGAAATCCCA
ACCAAAGACGTCCCTATTGTCCACACTGAGACCAAGACCATCACTTATGAGGCTGCCAGACTGTAAAAGGTGGG
ATTTACAGAGACACGTATTGAAAAGAGAATTGTGATCACAGGAGATGCTGATATTGACCATGATCAGGTCTTGT
CAAGCCATCAAGGAGGCAAAGGAGCAGCACCCAGACATGTCAAGTGAAGGAGGTTGCTCCACCAGGAGACCGAG
ATTGCTGATGAGTGAAGCTCAGGAACCTAACCTACCCCACTCTGCCCTTCTCCCATCCAAGAGAAACCACGAAAT
GATAAAGAAGCTAACCTGCCATAGTCAGACTTCAGACTTTCAAGATTATTCTAAATCACCAGAAAATTAATTTCA
GTTTCTATTGGGAGTTTATACCAAGAGATTCTTCTAGATCTCATTGATCCTTTTGAAGAGCTTTTCTATATTAG
GATATCAGAATTGTTCAACTTTTCACTCTATAGACTGTTTTAAGAGTTTTGGGGGGTTTTTAATTGGGTGGTTTG
TAACCCCTTCAGCCTAG

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FIGURE 665

MHCKVSLDDTVYECVVEKHAKGQDLLKRVCEHLNLLLEEDYFGLAIWDNATSKTWLDSAKEIKKQVRGVPWNFTF
NVKFYPPDPAQLTEDITRYYLCLQLRQDIVAGRLPCSFATLALLGSYTIQSELGDYDPELHGVDYVSDFKLAPNQ
TKELEEKVMELHKSYSRSMTPAQADLEFLENAKKLSMYGVDLHKAKDLEGVDIILGVCSSGLLVYKDKLRINRFPW
PKVLKISYKRSSFFIKIRPGEQEQYESTIGFKLPSYRAAKKLWKVCVEHHTFFRLTSTDITPKSKFLALGSKFRY
SGRTQAQTRQASALIDRPAPHFERTASKRASRLDGAAAVDSADRSPRPTSAPAITQGQVAEGGVLDASAKKTVV
PKAQKETVKAEVKKEDEPPEQAEPEPTEAWKKKRERLDGENIYIRHSNLMLEDLDKSQEEIKKHHASISELKKNF
MESVPEPRPSEWDKRLSTHSPFRTLNINGQIPTGEGPPLVKTQTVTISDNANAVKSEIPTKDVPVHTETKTITY
EAAQTVKGGISETRIEKRIVITGDADIDHDQVLVQAIKEAKEQHPDMSVTKVVVHQETEIADE

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FIGURE 666

CTGTATTGTGGTTCCTGGAACACTTTAGAGGCTTGTGATTCTACTGCTTCTTATTCACACTATAATACATGTCTC
ACCAATAGATGATTCAAGAACATCATTTAAATACACAATTTTTCATTCTCTATTTTTGCTAAATTTCTTCATACT
CAACTTTCAGATTCTTTAATCTCCAGCTCAGCTTCAACAATTCAACGCTGTTCTTTCTGAAAAAGTACACATCGT
GCCTTCTCTACTTCGCTCTTGGAACATAATTTCTCATGGCAGCTTTTACTAACTGAGTATTGAGCCAGCATTTA
CTCCAGGACCCAACATAGAACTCCAGAAAGACTCTGACTGCTGTTCTTGCCAAGAAAAATGGGTTGGGTACCGGT
GCAACTGTTACTTCATTTCCAGTGAACAGAAACTTGGAACGAAAGTCGGCATCTCTGTGCTTCTCAGAAATCCA
GCCTGCTTCAGCTTCAAAACACAGATGAACTGGATTTTATGAGCTCCAGTCAACAATTTTACTGGATTGGACTCT
CTTACAGTGAGGAGCACACCGCCTGGTTGTGGGAGAATGGCTCTGCACTCTCCAGTATCTATTTCCATCATTG
AACTTTTAAATACAAAGAACTGCATAGCGTATAATCCAAATGGAAATGCTTTAGATGAATCCTGTGAAGATAAAA
ATCGTTATATCTGTAAGCAACAGCTCATTTAATGTTTCTTGGGGCAGAGAAGGTGGAGAGTAAAGACCCAACAT
TACTAACAATGATACAGTTGCATGTTATATTACTAATTGTCTACTTCTGGAGTCTATAAAATGTTTTTAAAC
AGTGTCATATACAATTGTCATGTATGTGAAACAATGTGTTTTAAATTTGATGAAATTCGTTACCTACATTTGAG
AATTATAAAATTAACATAAAGAATTTTGTATTTTCATTTAATGTATATAATGTTAAATTCATGTAGTTTTATTA
CACATTTATGTAATTTTATTTACATTCTTGCTAATTCTCAGCAGAAATTTAAATAAGATTTAATTCACATCAAAT
AAAATTTAGAAAATAAAATTTAACTCACACTGCCCAGGCTGGAGCATAGTGGCAAGATCATAGCTCATTGCAAGC
TCAAGTGATCCTCCTGACTCAGCCTCCCAAGTAGCTAGGACTGCAGGCACCATGTCACTATGCCCGACTAATTTT
TAATTTTAAATTTTGTCAAGACAAGGTCTTGCTATGTTGCCAGGCTGGTCTTGAATCCTGGCCTCAA

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FIGURE 667

MAAFTKLSIEPAFTPGPNIELQKDSGCCSCQEKWVGRCNCYFISSEQKTWNE SRHLCASQKSSLLQLQNTDELD
FMSSSQQFYWIGLSYSEEHTAWLWENGSA LSQYLFPSFETFNTKNCIAYNPNGNALDESCEDKNRYICKQQLI

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FIGURE 668

GACCGAAGCAAGAGCTGGTTCAGGTGGCAGCCACAGCAGCCTCAGGGACCTCAGCAACTATGGCCTCCTGCCCAG
ACTCTGATAATAGCTGGGTGCTTGCTGGCTCCGAGAGCCTGCCAGTGGAGACACTGGGCCCCGCATCCAGGATGG
ACCCAGAATCTGAGAGAGCCCTGCAGGCCCCCTCACAGCCCCCTCCAAGACAGATGGGAAAGAATTAGCTGGGACCA
TGGATGGAGAAGGGACGCTCTTCCAGACTGAAAGCCCTCAGTCTGGCAGCATTCTAACAGAGGAGACTGAGGTCA
AGGGCACCCCTGGAAGGTGATGTTTGTGGTGTGGAGCCTCCTGGCCCAGGAGACACAGTAGTCCAGGGAGACCTGC
AGGAGACCACCGTGGTGACAGGCCCTGGGACCAGACACACAGGACCTGGAAGGCCAGAGCCCTCCACAGAGCCTGC
CTTCAACCCCCAAAGCAGCTTGGATCAGGGAGGAGGGCCGCTGCTCCAGCAGTGACGATGACACCGACGTGGACA
TGGAGGGTCTGCGGAGACGGCGGGGGCCGGGAGGCCGGCCACCTCAGCCCATGGTGCCCTTGGGGCCCTGGCTGTGGAGAACC
AGGCTGGGGGTGAGGGTGCAGGCGGGGAGCTGGGCATCTCCCTCAACATGTGCCTCCTTGGGGCCCTGGTTCTGC
TTGGCCTGGGGGTCTCTCTCTTCTCAGGTGGCCTCTCAGAGTCTGAGACTGGGCCCCATGGAGGAAGTGGAGCGGC
AGGTCTCTCCAGACCCCGAGGTGCTGGAAGCTGTGGGGGACAGGCAGGATGGGCTAAGGGAACAGCTGCAGGCC
CAGTGCCCTCCTGACAGTGTCCCCAGCCTGCAAAACATGGGTCTTCTGCTGGACAAGCTGGCCAAGGAGAACCAGG
ACATCCGGCTGCTGCAGGCCCAGCTGCAGGCCCAAAAGGAAGAGCTTCAGAGCCTGATGCACCAGCCCAAAGGGC
TAGAGGAGGAGAATGCCAGCTCCGGGGGGCTCTGCAGCAGGGCGAAGCCTTCCAGCGGGCTCTGGAGTCAGAGC
TGCAGCAGCTGCGGGCCCGGCTCCAGGGGCTGGAGGCCGACTGTGTCCGGGGCCAGATGGGGTGTGCCTCAGTG
GGGGTAGAGGCCACAGGGTGACAAGGCCATCAGGGAGCAAGGCCCCAGGGAGCAGGAGCCAGAAGTACAGCTTCC
TGAAGCAGAAGGAACAGCTGGAGGCTGAGGCACAGGCATTAAGGCAAGAGTTAGAGAGGCAGCGACGGCTGCTGG
GGTCTGTACAGCAGGATCTGGAGAGGAGCTTGCAGGATGCCAGCCGCGGGGACCCAGCTCATGCTGGCTTGGCTG
AGCTGGGCCACAGATTGGCCCAGAACTGCAGGGCCTGGAGAAGTGGGGCCAGGACCCTGGGGTCTCTGCCAATG
CCTCAAAGGCCTGGCACCAGAAGTCCCACCTTCCAGAATTCTAGGGAGTGGAGTGGAAAGGAAAAGTGGTGGGATG
GGCAGAGAGACCGGAAGGCTGAGCACTGGAAACATAAGAAGGAAGAATCTGGCCGGGAAGGAAGAAGAAGTGGG
GAGGTGAGGAGGACAGGGAGCCAGCAGGAAGGTGGAAGGAGGGCAGGCCAAGGGTGGAGGAGTCGGGGAGCAAGA
AGGAGGGCAAGCGACAGGGCCCCGAAGGAACCCCCAAGGAAAAGTGGTAGCTTCCACTCCTCTGGAGAAAAGCAGA
AGCAACCTCGGTGGAGGGAAGGGACTAAGGACAGCCATGACCCCTGCCATCCTGGGCAGAGCTGTTGAGGCCCA
AGTACCGGGCACCCAGGGCTGCTCAGGTGTGGACGAGTGTGCCCGGCAGGAGGGCCTGACTTTCTTTGGCACAG
AGCTAGCCCCAGTGCGGCAACAGGAGCTGGCCTCTCTGCTAAGAACATACTTGGCACGGCTGCCCTGGGCTGGGC
AGCTGACCAAGGAGCTACCCCTCTCACCTGCTTTCTTTGGTGAGGATGGCATCTTCCGTATGACCGCCTCCGCT
TCCGGGATTTTGTGGATGCCCTGGAGGACAGCTTGGAGGAGGTGGCTGTGCAACAGACAGGTGATGATGATGAAG
TAGATGACTTTGAGGACTTCATCTTCAGCCACTTCTTTGGAGACAAAGCACTGAAGAAGAGGTGAGGGAAGAAGG
ACAAGCACTCACAGAGCCCCAAGAGCTGCGGGGGCCAGGGAGGGGACAGCCATAGCCACCACCACCACCACCGG
GCTGACACCCTGCCCCACAGGGAATGGCCTTGGCCTGGCCAGCCCAAGATCCCAGCGTTATCTAACTCCTGGAG
GGTGGACTCTGTCTGGCTTGTGTTGGTGTCTCAGATACTTTTACACAGTAGAGCAAAATCACCAGCCCTGCAC
TGATGTCACTTTATGTAGAAAAAGGCCCTTAGCTGGACCTGCGTTGCCGTCTATGCAAATGCATGCAAATACTCCA
GGCCCTGGGATGTGGGCTTGTGTTTTGTCACTGTGAAGGGGGAGATGGGAGAGGAGCCTGTTTTGGGGTGGGGTC
TGGGGAAGGCAATCTGATTCTGAAGCTAAAGAGCTTTCATCCTCTTGAGTGTATGTCCCCATAGTGGGCCCCCTTG
ACCCACATGCTGACCGGTGCCTTGGGATTTGACTAGAGTTGCTGGCTCGAGGCCCAGCACGAGGACTTACCCTGG
GGTTTTGTTAGGTTTGAAGCAGCTGTCCCTAGGGGGTGAAGTCCCCCCCCCTTTTTTTTTTTTACCCCTGCTTCTC
CCACGGCTTCACCTCCCTATGTGAAGTGTAGACTCAGATCCCAATAAAGTGTGTTGCAGCTATGATGCTAGGTG
GTTTCTAAGCACAGGGGACACCCACACCCCTGCCTGAATGGATGGGTCCATCCCAGGCACTGGTACTTGCCCC
CTTGTTCTGTATCCCCCTTTGCCCTTGCCCTTGCCCTTCCAACAAACCTAGGCCCTTGAGAAGCTGATACTTCTC
CTTTTGCTCACAGCTGCCTTGGCCCCACCCCTGGGAGATGTAGCAAATTGAGTGTGGGTTTTGGAGTCTGAGCCT
CAGGCTCAAATCCAGGCCAAGTGATCTTGGGCAAGTTAATCTCTGGGAACCTTGGGTTCTTATCCTCAAAAAAG
CGATGGAAGGGCTGGGGGAAGTGATTAATAAAAGCAACGCAAGAAAAA

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FIGURE 669

MASCPDSDNSWVLAGESESLPVETLGPASRMDPESERALQAPHSPSKTDGKELAGTMDGEGTLFQTESPQSGSILT
EETEVKGTLEGDVCGVEPPGPGDTVVQGDLETTVVVTGLGPDQTDLLEGQSPPQSLPSTPKAAWIREEGRCSSDD
DTDVDMEGLRRRRRGREAGPPQPMVPLAVENQAGGEGAGGELGISLNMCLLGALVLLGLGVLLFSGGLSESETGPM
EEVERQVLPDPEVLEAVGDRQDGLREQLQAPVPPDSVPSLQNMGLLLDKLAKENQDIRLLQAQLQAQKEELQSLM
HQPKGLEENAQLRGALQQGEAFQRALESELQQLRARLQGLEADCVRGPDGVCLSGGRGPQGDKAIREQGPREQE
PELSFLKQKEQLEAEAQALRQELERQRRLLGSVQODLERSLQDASRGDPAHAGLAELGHRLAQKLQGLEENWGQDP
GVSANASKAWHQKSHFQNSREWSGKEKWWDGQRDRKAHWHKKKEESGREKKKNWGGQEDREPAGRWKEGRPRVE
ESGSKKEGKRQGPKEPPRKSGSFHSSGEKQKQPRWREGTKDSDHPLPSWAELLRPKYRAPQGCSGVDECARQEG
TFFGTTELAPVRQQELASLLRXYLARLPWAGQTKELPLSPAFFGEDGIFRHDRLRFRDFVDALEDSLEEVAVQQT
GDDDEVDDFEDFIFSHFFGDKALKKRSGKKDKHSQSPRAAGPREGHSHSHHHHHHRG

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FIGURE 670

AAGCCACCCAGCCTATGCATCCGCTCCTCAATCCTCTCCTGTTGGCACTGGGCCTCATGGCGCTTTTGTGACCA
CGGTCATTGCTCTCACTTGCCTTGGCGGGCTTTGCCTCCCCAGGCCCTGTGCCTCCCTCTACAGCCCTCAGGGAGC
TCATTGAGGAGCTGGTCAACATCACCCAGAACCAGAAGGCTCCGCTCTGCAATGGCAGCATGGTATGGAGCATCA
ACCTGACAGCTGGCATGTACTGTGCAGCCCTGGAATCCCTGATCAACGTGTCAGGCTGCAGTGCCATCGAGAAGA
AGAGGATGCTGAGCGGATTCTGCCCCGACAAAGGCTCTCAGCTGGGCAGTTTTCCAGCTTGCATGTCCGAGACA
AAATCGAGGTGGCCCCAGTTTGTAAAGGACCTGCTCTTACATTTAAAGAACTTTTCGCGAGGGACGGTTCA
GAAACTTCGAAAGCATCATTATTTGCAGAGACAGGACCTGACTATTGAAGTTGCAGATTCATTTTCTTTCT
GATGTCAAAAATGTCTTGGGTAGGCGGGAAGGAGGGTTAGGGAGGGGTAAAATTCCTTAGCTTAGACCTCAGCCT
TGCCCGTCTTCAGCCTAGCCGACCTCAGCCTTCCCCTTGCCAGGGCTCAGCCTGGTGGGCCTCCTCTGTC
GGCCCTGAGCTCGGTGGACCCAGGGATGACATGTCCCTACACCCCTCCCCTGCCCTAGAGCACACTGTAGCA
TAGTGGGTGCCCCCTTGCCAGACATGTGGTGGGACAGGGACCCACTTCACACACAGGCAACTGAGGCAGAC
AGCTCAGGCACACTTCTTCTTGGTCTTATTTATTATTGTGTGTTATTTAAATGAGTGTGTTTGTACCGTTG
AATTGGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAGGGTTCAGAGACTCAGGGCCCCAGCACTAAAGCAG
GGACCCAGGAGTCCCTGGTAATAAGTACTGTGTACAGAATTCTGCTACCTCACTGGGGTCTTGGGGCCTCGGA
GCTCATCCGAGGCAGGGTCAGGAGAGGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
AACGAGTAATTTATTGTTTTCTCTCGTATTTAAATATTAAATATGTTAGCAAAGAGTTAATATATAGAAGGGTAC
CTTGAACACTGGGGGAGGGGACATTGAACAAGTTGTTTCATTGACTATCAAACCTGAAGCCAGAAATAAAGTTGGT
GACAGATA

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FIGURE 671

MALLTTVIALTCLGGFASPGVPVPPSTALRELIEELVNITQNQKAPLCNGSMVWSINLTAGMYCAALESLINVSG
CSAIEKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLHLKKLFREGRFN

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FIGURE 672

ATCACTCTCTTTAATCACTACTCACATTAACCTCAACTCCTGCCACAATGTACAGGATGCAACTCCTGTCTTGCA
TTGCACTAATTCTTGCACTTGTCACAAACAGTGCACCTACTTCAAGTTCGACAAAGAAAACAAAGAAAACACAGC
TACAACTGGAGCATTTACTGCTGGATTTACAGATGATTTTGAATGGAATTAATAATTACAAGAATCCCAAACCTCA
CCAGGATGCTCACATTTAAGTTTTACATGCCCAAGAAGGCCACAGAACTGAAACAGCTTCAGTGTCTAGAAGAAG
AACTCAAACCTCTGGAGGAAGTGCTGAATTTAGCTCAAAGCAAAAACCTTCACTTAAGACCCAGGGACTTAATCA
GCAATATCAACGTAATAGTTCTGGAACTAAAGGGATCTGAAACAACATTCATGTGTGAATATGCAGATGAGACAG
CAACCATTGTAGAATTTCTGAACAGATGGATTACCTTTTGTCAAAGCATCATCTCAACACTAACTTGATAATTAA
GTGCTTCCCACTTAAAACATATCAGGCCTTCTATTTATTTATTTAAATATTTAAATTTTATATTTATTGTTGAAT
GTATGGTTGCTACCTATTGTAACCTATTATTCTTAATCTTAAACTATAAATATGGATCTTTTATGATTCTTTTG
TAAGCCCTAGGGGCTCTAAAATGGTTTACCTTATTTATCCCAAAAATATTTATTATTATGTTGAATGTTAAATAT
AGTATCTATGTAGATTGGTTAGTAAACTATTTAATAAATTTGATAAATATAAAAAAAAAAAAAACAAAAAAAAAA

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FIGURE 673

MYRMQLLSICIALILALVTNSAPTSSSTKKTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATE
LKQLQCLEEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFCQS
IISTLT

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FIGURE 674

GATCCAAACATGAGCCGCCTGCCCCGTCTGCTCCTGCTCCAACCTCCTGGTCCGCCCCGGACTCCAAGCTCCCATG
ACCCAGACAACGTCCTTGAAGACAAGCTGGGTAACTGCTCTAACATGATCGATGAAATTATAACACACTTAAAG
CAGCCACCTTTGCCTTTGCTGGACTTCAACAACCTCAATGGGGAAGACCAAGACATTCTGATGGAAAATAACCTT
CGAAGGCCAAACCTGGAGGCATTCAACAGGGCTGTCAAGAGTTTACAGAACGCATCAGCAATTGAGAGCATTCTT
AAAAATCTCCTGCCATGTCTGCCCCCTGGCCACGGCCGCACCCACGCGACATCCAATCCATATCAAGGACGGTGAC
TGGAATGAATTCCGGAGGAAACTGACGTTCTATCTGAAAACCCTTGAGAATGCGCAGGCTCAACAGACGACTTG
AGCCTCGCGATCTTTTAGTTCCAACGTCAGCTCGTTCTCTGGGCCTTCTCACCACAGCGCCTCGGGACATCAAAA
ACAGCAGAACTTCTGAAACCTCTGGGTCATCTCTCACACATTCCAGGACCAGAAGCATTTACCTTTTCCTGCGG
CATCAGATGAATTGTTAATTATCTAATTTCTGAAATGTGCAGCTCCCATTTGGCCTTGTGCGGTTGTGTTCTC

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FIGURE 675

MSRLPVLLLLQLLVRPGLQAPMTQTTS�KTSWVNCSNMIDEIITHLKQPPLPLDFNNLNGEDQDILMENNLRPP
NLEAFNRAVKSLQNASAIESILKNLLPCLPLATAAPTRHPIHIKGDWNEFRRKLTFYKTLENAQAQQTTLSLA
IF

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FIGURE 676

GAGGTTGAAGGACCCAGGCGTGTCAGCCCTGCTCCAGAGACCTTGGGCATGGAGGAGAGTGTCGTACGGCCCTCA
GTGTTTGTGGTGGATGGACAGACCGACATCCCATTACAGAGGCTGGGACGAAGCCACCGGAGACAGTCGTGCAGT
GTGGCCCGGGTGGGTCTGGGTCTCTTGCTGTTGCTGATGGGGGCTGGGCTGGCCGTCCAAGGCTGGTTCCTCCTG
CAGCTGCACTGGCGTCTAGGAGAGATGGTCACCCGCTGCCTGACGGACCTGCAGGCTCCTGGGAGCAGCTGATA
AGSAGCGAAGGTCTCACGAGGTCAACCCAGCAGCGCATCTCACAGGGGCCAACTCCAGCTTGACCGGCAGCGG
CGCTGTTATGGGAGACTCAGCTGGGCCTGGCCTTCCTGAGGGGCCTCAGCTACCACGATGGGGCCCTTGTG
ACCAAAGCTGGCTACTACTACATCTACTCCAAGGTGCAGCTGGGCGGTGTGGGCTGCCCCTGGGCCTGGCC
AGCACCATCACCCACGGCCTCTACAAGCGCACACCCCGCTACCCCGAGGAGCTGGAGCTGTTGGTCAGCCAGCAG
ACCCCTGCGGACGGGCCACCAGCAGCTCCCGGGTCTGGTGGGACAGCAGCTTCCTGGGTGGTGTGGTACACCTG
AGGCTGGGGAGGAGGTGGTTCGTCCGTGTGCTGGATGAACGCCTGGTTCGACTGCGTGATGGTACCCGGTCTTAC
AGGGGGCTTTTCATGGTGTGAAGGAAGGAGCGTGGTGCATTGGACATGGGTCTGACACGTGGAGAACTCAGAGGG
CTCAGGGGAAAGAAAACCTCACGAAGCAGAGGCTGGGCGTGGTGGCTCTCGCCTGTAATCCCAGCACTTTGGG
AGCCAAGGCAGGCGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGGCTAACATGGCAAAACCCCATCTCTA
TAAAAATACAAAATTAGCCGGACGTGGTGGTGCCTGCCTGTAATCCAGCTACTCAGGAGGCTGAGGCAGGATA
ATTTTGCTTAAACCCGGGAGGCGGAGGTTGCAGTGAGCCGAGATCACACCACTGCACTCCAACCTGGGAAACGCA
GTGAGACTGTGCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 677

MEESVVRPSVFVVDGQTDIPFTRLGRSHRRQSCSVARVGLLLLLLMGAGLAVQGWFLQLHWRLGEMVTRLPDG
PAGSWEQLIQERRSHEVNPA AHLTGANSSLTGSGGPLLWETQLGLAFLRGLSYHDGALVVTKAGYYYIYSKVQLG
GVGCPLGLASTITHGLYKRTPRYPEEELLEVSQQSPCGRATSSSRVWWDSSFLGGVVHLEAGEEVVVRVLDERLV
RLRDGTRSYFGAFMV

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FIGURE 678A

GGCACGAGGCTCGCCGCGGACTCAAGATGGCGGCGTGTGGACGTGTACGGAGGATGTTCCGCTTGTGCGCGGCGC
TGCATCTGCTGCTGCTATTCGCGGCCCGGGGCGAGAACTCCCCGGCCAGGGCGTCCCACAGCCAGGGCCAGGGTC
CCGGGGCCAACTTTGTGTCTTCGTAGGGCAGGCCGAGGCGGCGGCCCGGGCGGGTCAGCAGCTGCCCCAGCTGC
CTCAGTCATCGCAGCTTCAGCAGCAACAGCAGCAGCAGCAACAGCAACAGCAGCCTCAGCCGCCGAGCCGCCTT
TCCCGGCGGGTGGGCTCCGCGGCGGGGAGGAGCGGGGCTGGTGGGGGCTGGAAGCTGGCGGAGGAAGAGTCCT
GCAGGGAGGACGTGACCCGCGTGTGCCCTAAGCACACCTGGAGCAACAACCTGGCGGTGCTCGAGTGCCTGCAGG
ATGTGAGGGAGCCTGAAAATGAAATTTCTTCAGACTGCAATCATTTGTTGTGGAATTATAAGCTGAACCTAATA
CAGATCCCCAAATTTGAATCTGTGGCCAGAGAGGTTTGCAATCTACTATAACAGAGATTAAAGATGTGCTGATG
AACCGGTTGGAAAAGGTTACATGGTTTCTTGCTTAGTGGATCACCGAGGCAACATCACTGAGTATCAGTGTCAAC
AGTACATTACCAAGATGACGGCCATCATTTTTAGTGATTACCGTTTAACTGTGGCTTCATGGATGACTGCAAAA
ATGACATCAACATTCTGAAATGTGGCAGTATTCCGCTTGGAGAAAAGGATGCACATTACAAGGTGAGGTGGTAT
CATGCTTGGAGAAAAGGCTGGTGAAAGAAGCAGAAGAAAGAGAAACCAAGATTCAAGTTTCTGAACTCTGCAAGA
AAGCCATTCTCCGGTGGCTGAGCTGTCTCGGATGACTTTCACTTAGACCGGCATTATATTTTGCTTGCCGAG
ATGATCGGGAGCGTTTTTGTGAAAATACACAAGCTGGTGAGGGCAGAGTGTATAAGTGCCTCTTTAACCATAAAT
TTGAAGAATCCATGAGTGAAAAGTGTGAGAAGCACTTACAACCCGCCAAAAGCTGATTGCCAGGATTATAAAG
TCAGTTATTCATTGGCCAAATCCTGTAAAAGTGACTTGAAGAAATACCGGTGCAATGTGGAACCTTCCGCGAT
CGCGTGAAGCCAGGCTCTCCTACTTGTAAATGTGCCTGGAGTCAGCTGTACACAGAGGGCGACAAGTCAGCAGTG
AGTGCCAGGGGAGATGCTGGATTACCGACGCATGTTGATGGAAGACTTTTCTCTGAGCCCTGAGATCATCTAA
GCTGTGCGGGGAGATTGAACACCATTGTTCCGGATTACATCGAAAAGGACGGACCCTACACTGTCTGATGAAGG
TAGTTCGAGGGGAGAAGGGGAACCTTGAATGAACTGCCAGCAGGCGCTTCAAACACTGATTGAGGAGACTGACC
CTGGTGCAGATTACCGCATTGATCGAGCTTTGAATGAAGCTTGTGAATCTGTAATCCAGACAGCCTGCAACATA
TAAGATCTGGAGACCCAATGATCTCGTCGTGCCTGATGGAACATTTATACACAGAGAAGATGGTAGAAGACTGTG
AACACCGTCTCTTAGAGCTGCAGTATTTATCTCCCGGATTGGAAGCTGGACCCTGTCTGTACCGCAAGTGCC
AGGGAGACGCTTCTCGTCTTTGCCACACCCACGGTTGGAATGAGACCAGTGAATTTATGCCTCAGGGAGCTGTGT
TCTCTTGTTTATACAGACACGCCTACCGCACTGAAGAACAGGGAAGGAGGCTCTCACGGGAGTGCCGAGCTGAAG
TCCAAAGGATCCTACACCAGCGTGCCATGGATGTCAAGCTGGATCCTGCCCTCCAGGATAAGTGCCTGATTGATC
TGGGAAAATGGTGCAGTGAGAAAACAGAGACTGGACAGGAGCTGGAGTGCCTTCAGGACCATCTGGATGACTTGG
TGGTGGAGTGTAGAGATATAGTTGGCAACCTCACTGAGTTAGAATCAGAGGATATCCAAATAGAAGCCTTGCTGA
TGAGAGCCTGTGAGCCATAATTGACACATTCTGCCACGATGCGGATAACCAGATAGACTCTGGGGACCTGATGG
AGTGTCTGATACAGAACAAACACCAGAAGGACATGAACGAGAAGTGTGCCATCGGAGTTACCCACTTCCAGCTGG
TGCAGATGAAGGATTTTTCGGTTTTCTTACAAGTTTAAAATGGCTGCAAGGAGGACGTGTTGAAGCTTTGCCAA
ACATAAAAAGAAGGTGGACGTGGTGTCTGCCTGAGCAGCAGCGTGCCTGCAATGACACTCTGCAGGAAGCCAAGG
AGCACAGGGTGTCCCTGAAGTGCCGCGAGGCAGCTCCGTGTGGAGGAGCTGGAGATGACGGAGGACATCCGCTTGG
AGCCAGATCTATACGAAGCCTGCAAGAGTGACATCAAAAACCTTCTGTTCCGCTGTGCAATATGGCAACGCTCAGA
TTATCGAATGTCTGAAAGAAAACAAGAAGCAGCTAAGCACCCGCTGCCACCAAAAAGTATTTAAGCTGCAGGAGA
CAGAGATGATGACCCAGAGCTAGACTACACCCTCATGAGGGTCTGCAAGCAGATGATAAAGAGGTTCTGTCCGG
AAGCAGATTCTAAACCATGTTGCAGTGCTTGAAGCAAAATAAAAACAGTGAATTGATGGATCCCAATGCAAAC
AGATGATAACCAAGCGCCAGATCACCCAGAACACAGATTACCGCTTAAACCCCATGTTAAGAAAAGCCTGTAAAG
CTGACATTCTTAAATTCTGTACGGTATCCTGACTAAGGCCAAGGATGATTGAGAATTAGAAGGACAAGTCATCT
CTTGCTTGAAGCTGAGATATGCTGACCAGCGCTGTCTTCAGACTGTGAAGACCAGATCCGAATCATTATCCAGG
AGTCCGCCCTGGACTACCGCTGGATCCTCAGCTCCAGCTGCCTGCTCAGACGAGATCTCCAGTCTATGTGCTG
AAGAAGCAGCAGCCCAAGAGCAGACAGGTGAGTGGAGGAGTGCCTCAAGGTCAACCTGCTCAAGATCAAAACAG
AATTGTGTAAAAGGAAGTGCTAAACATGCTGAAGGAAAGCAAAGCAGACATCTTTGTTGACCCGGTACTTCATA
CTGCTTGTGCCCTGGACATTAAACACCACTGCGCAGCACTACCCCTGGCCGCGGGCGTCAAATGTCTGTCTCA
TGGAAGCACTGGAGGATAAGCGGGTGAAGTTACAGCCCAGTGCAAAAAGCGCCTCAATGACCGGATTGAGATGT
GGAGTTACGCAGCAAAGGTGGCCCCAGCAGATGGCTTCTCTGATCTTGCCATGCAAGTAATGACGTCTCCATCTA
AGAATACTATTCTCTGTGATCAGTGGGAGCATCTGTATATTGTTCTGATTGGCCTGATGTGTGGACGGATCA
CCAAGCGAGTGACACGAGAGCTCAAGGACAGGTAGGCCACCTTGACCACCAAGGAACCTACCTATCCAGTGCC

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FIGURE 678B

AGTTTGTACAGCCCTCTTGTATAGCATCCCCACTCACCTCGCTCTTCTCAGAAGTGACACCAACCCCGTGTTAGA
GCATTAGCAGATGTCCACTGCGTTGTCCCATCCAGCCTCCACTCGTGTCCATGGTGTCCCTCCTCCTCACCCT
GCAGCAGCAGCAGCTGGTCGCTGGGGTTACTGCCTTTGTTTGGCAAACCTTGGGTTTACCTGCCTGTAGACAAGTC
TCTCTCATACCAACAGAACTTCCGGTACTTCCAGAACCAACTCACCTGACCTGCAACTCAAAGGCTTTTTTAAGA
AAACCACCA

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FIGURE 679

MAACGRVRRMFRLSAAHLHLLLFAGGRNSPARASHSQGQGPANFVSFVGQAGGGGPAGQQLPQLPQSSQLQQQ
QQQQQQQQQPQPPQPPFPAGGPPRRGGAGAGGGWKLAEEESCREDVTRVCPKHTWSNNLAVLECLQDVREPENEI
SSDCNHLWNYKLNLTDPKFESVAREVCKSTITEIKECADEPVGKGYMVSCLVDHRGNITEYQCHQYITKMTAI
IFSDYRLICGFMDDCKNDINILKCGSIRLGEKDAHSQGEVVSCLEKGLVKEAEEREPKIQVSELCKKAILRVAEL
SSDDFHLDRHLYFACRDDRRFCENTQAGEGRVYKCLFNHKEESMSEKCREALTTRQKLIADYKVSYSYSLAKSC
KSDLKKYRCNVENLPRSREARLSYLLMCLES AVHRGRQVSSECQGEMLDYRRMLMEDFSLSPEIILSCRGEIEHH
CSGLHRKGRTLHCLMKVVRGEKGNLGMNCQQAQTLIQETDPGADYRIDRALNEACESVIQTACKHIRSGDPMIS
SCLMEHLYTEKMVEDCEHRLLELQYFISRDWKLDVLYRKQCQGDASRLCHTHGWNETSEFMPQGA VFSCLYRHAY
RTEEQGRRLSRECAEVQRILHQRAMDVKLDPALQDKCLIDLKWCSEKTETGQELECLQDHLDDLVECRDIVG
NLTELESEDIQIEALLMRACEPIIQTFCHDADNQIDSGDLMECLIQNKHQKDMNEKCAIGVTHFQLVQMKDFRFS
YKFKMACKEDVLKLCPNIKKKVDVVICLSTTVRNDTLQEAKEHRVSLKCRRLRVEELEMTEDIRLEPDLYEACK
SDIKNFCSAVQYGNAQIIIECLKENKKQLSTRCHQKVFKLQETEMMDPELDYTLMRVCKQMIKRFCEADSKTMLQ
CLKQNKNSLMDPKCKQMITKRQITQNTDYRLNPMRLKACKADIPKFCHGILTKAKDDSELEGQVISCLKLYAD
QRLSSDCEDQIRII IQESALDYRLDPQLQLHCSDEISSLCAEAAAQEQTGQVEECLKVNLLKIKTELCKKEVLN
MLKESKADIFVDPVLHTACALDIKHHCAALTPGRGRQMSCLMEALEDKRVRLQPECKKRLNDRIEMWSYAAKVAP
ADGFSDLAMQVMTSPSKNYILSVISGSICILFLIGLMCGRITKRVTRELKDR

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FIGURE 680

TCGGGGCCAGCGCATGGGGCTGCTGAGACCGCTCCGGACGTGCGAAGCGTTTCGCGGTGCGGTAGGAAGCTGAAGT
CTTCAGCAGAACCCTGACCTAGGTAGGGAGTCTCAATGCCCTGGGTGAAGAAAAGGCAGAAGCGGAAGCATCTG
AAGACACAAAGGCCAGTCCTATGGGAGAGGGAGCTGCAGGGAGCGGGAGCTGGACATCCCAGGGCCCATGAGTG
GGGAGCAGCCCCACGCCTGGAAGCTGAGGGAGGGCTCATCTCCCTGTATGGGGGGCAGAAGGGATACCTGCC
CTACTTGCTGGATTGGGACTGACCCTGGCAGCCCCTCTAGAGCCCACCAGCCACAGGCCAGTGATGCCAACAGAG
AGCCCGTAGCTGAGAGGTCTGAGCCTGCACTCAGTGGCCTGCCTCCTGCCACCATGGGGTCTGGAGACCTTCTGC
TCTCCGGGAAAGCCAGGTGGAGAAGACCAAGCTTTCTTCCCTCCGAGGAGTTCCCTCAGACTCTGAGCCTTCCCA
GAACAACAACCTATTTGCTCAGGACATGATGCTGATACCGAAGATGATCCATCCCTAGCAGATTGCCCCAGGCAC
TGGACCTCAGCCAGCAGCCTCACAGCTCAGGTCTCTCTTGCCTGTACAGTGGAAGTCCGTGCTGAGCCCAGGTT
CCGAGCTCAGCCTTCCAGCTGCAGCATCTCTGCTTCCCTCCACGGGCAGCAGTCTCCAGGGTCAACAGGAGAGGG
CGGAGCCTCGTGGTGGTTCTCTGGCCAAGGTCTCCTCCTCCCTGGAGCCGGTCTGTCCTCCCAAGAACCTTCTCTG
TGGTGGGGCTAGGACCTCGGCCCCAGTGGTCACCACAGCCTGTGTTCTCTGGGGGTGATGCTTCTGGGCTAGGCA
GGAGACGCCCTCTCCTTCCAGGCTGAGTACTGGGCCTGTGTGCTGCCAGATTCCCTGCCTCCATCACCCGACCGCC
ACTCCCTCTCTGGAACCCAAATAAAGAGTATGAAGATCTGCTTGACTATACTTACCCACTGAGGCCCCGGCCCTC
AGCTCCCAAAGCACCTTGATAGCCGTGTGCCAGCTGACCCTGTCTGTCAGGACTCCGGGGTAGACCTGGATAGCT
TCTCTGTCTCTCCAGCAAGCACCTTCAAATCACCTACTAATGTCTCCCCAACTGCCCACCAGCAGAGGCCACTG
CCCTGCCATTTTCTGGGCCCAGAGAGCCAAGCCTTAAGCAGTGGCCCTCCAGAGTACCCCAAGAACAGGGTGGCA
TGGGCTTGGCATCTTGGAGCCAACCTTGATCTACCCCCAGAGCCCCAGGCAGTAGGGATGCTCGTTGGGAGCGCA
GAGAGCCAGCCCTGAGGGGTGCGAAGGACCGGCTGACTATAGGCAAGCACCTTGATATGGGCTCTCCCCAGCTAA
GGACACGGGACAGAGGGTGGCCCTCGCCCAGGCCAGAGAGGGAGAAGAGGACCAGCCAGAGTGCCCGGCGCCCTA
CCTGCACAGAGTCTAGGTGGAAATCAGAAGAGGAAGTGGAAAGTGATGACGAGTATCTTGCCCTCCCCGCTCGGC
TGACACAGACATTTTGTCTGTCAGCTGGAAGAGCTGATCTGCTGGCTGTATAATGTTGCAGATGTTACTGACCAG
GGACTGCAGCCAGGTCCAATCTTACAAGTCTCAAGTCTTCTCTGCAGCTTTACCGGCAATTTAAGAAAGATATAG
ATGAACATCAGTCTCTGACGGAGAGTGTCTTACAGAAGGGGGAGATTCTTCTTCAGTGCCTGTTGGAGAACACCC
CAGTTTTAGAGGATGTCCTTGGGAGGATCGCAAAGCAGTCTGGTGAGCTGGAGAGCCACGCAGATCGCCTGTATG
ACTCTATCTTGGCCTCTCTGGACATGCTGGCTGGCTGCACCCCTATCCCTGACAAAAAGCCCATGGCGGCAATGG
AGCACCCATGTGAAGGGGTTTAACCTGGCATCTTCTCAGGCAGAGGTGCAACCTGTGGGCCAAACACTGGCTAGT
GAGAAAAAAAACCTTCAAGAAGTCCTTGCAAGAGCCATTCAACACTGAAGTCAAGGGGAAACCTTCAATATACT
AGCTTTAAATGCCTTTCTCCTCCCTGAATGGAGGGCTGAGTTACTATTTTTATTTACAATGAATCCTTCCAAAC
TAAAAAAAAAAAAAAAAAAAAA

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FIGURE 681

MALGEEKAEAEASEDTKAQSYGRGSCRERELDIPGMSGEQPPRLEAEGGLISPVWGAEGIPAPTCWIGTDPGSP
SRAHQPPASDANREPVAERSEPALSGLPPATMGSGDLLSGESQVEKTKLSSSEFFPQTLSPRTTITCSGHDAD
IEDDPSLADLPQALDLSQQPHSSGLSCLSQWKSVLSPGSAAQPSSCSISASSTGSSLQGHQERAEPRGSLAKVS
SSLEPVVPQEPSSVVGLGPRPQWSPQPVFSGGDASGLGRRRLSFQAIEWACVLPDSLPPSPDRHSPLWNPKEYE
"DYTYPLRPGPQLPKHLDSRVPADPVLQDSGVDLDSFSVSPASTLKSPTNVSPNCPAEATALPFSGPREPSL
PFSRVPOKQGGMGLASWSQLASTPRAPGSRDARWERREPALRGAKDRLTIGKHLDMGSPQLRTRDRGWPSRP
PEKRTSQSARRPTCTESRWKSEEEVESDDEYLALPARLTQTFCCQLEELICWLYNVADVTDHGTAARSNLTSLK
NELQLYRQFKKDIDEHQSLTESVLQKGEILLQCLLENTPVLEDVLGRIAKQSGELESHADRLYDSILASLDMLAG
TLIPDKKPMAAMEHPCEGV

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FIGURE 682

GGGCAACGGAGGGGAAATAAAAGGGAACGGCTCCGAATCTGCCCCAGCGGCCGCTGCGAGACCTCGGCGCCGACA
TCGCGACAGCGAAGCGCTTTGCACGCCAGGAAGGTCCCTCTATGTGCTGCTGAGCCGGTCTGGACGCGACGAG
CCCCCCTCGGTCTTCGGAGCAGAATTCGAAAAACGGAAGGACTGGAAATGCGCAGACCATATGATGGCAATGAA
CCACGGGCGCTTCCCCGACGGCACCAATGGGCTGCACCATCACCTGCCACCGCATGGGCATGGGGCAGTTCCC
GAGCCCCCATCACCACCAGCAGCAGCAGCCCCAGCAGCCTTCAACGCCCTAATGGGCGAGCACATACACTACGG
CGCGGGCAACATGAATGCCACGAGCGGCATCAGGCATGCGATGGGGCCGGGGACTGTGAACGGAGGGCACCCCC
GAGCGCGCTGGCCCCCGCGGCCAGGTTTAAACAACTCCAGTTTATGGGTCCCCGGTGGCCAGCCAGGGAGGCTC
CCTGCCGGCCAGCATGCAGCTGCAGAAGCTCAACAACCAGTATTTCAACCATCACCCCTACCCCCACAACCACTA
CATGCCGGATTTGCACCCTGCTGCAGGCCACCAGATGAACGGGACAAACCAGCACTTCCGAGATTGCAACCCCAA
GCACAGCGGCGGCAGCAGCACCCCCGGCGGCTCGGGCGGCAGCAGCACCCCCGGCGGCTCTGGCAGCAGCTCGGG
CGGCGGCGCGGGCAGCAGCAACAGCGGCGGCGGCAGCGGCAGCGGCAACATGCCCGCTCCGTGGCCCCAGTCCC
CGCTGCAATGCTGCCGCCCAATGTTCATAGACACTGATTTTCATCGACGAGGAAGTTCTTATGTCTTTGGTGATAGA
AATGGGTTTGGACCGCATCAAGGAGCTGCCCCGAACCTCTGGCTGGGGCAAACGAGTTTGATTTTATGACGGACTT
CGTGTGCAAACAGCAGCCCAGCAGAGTGAGCTGTGACTCGATCGAAACCCCGGCGAAAGAAATCAAACCCCCAA
CTTCTTCGGCGTGAATTAAGAAACATTCCCTTAGACACAGTATCTCACTTTTCAGATCTTGAAAGGTTTGAGA
ACTTGAAACAAAGTAACTATAAACTTGTACAAATTGGTTTTAAAAAAATTGCTGCCACTTTTTTCTGTTT
TTGTTTCGTTTTTGTAGCCTTGACATTCACCCACCTCCCTTATGTAGTTGAAATATCTAGCTAACTTGGTCTTTT
TCGTTGTTTGTTTTTACTCCTTCCCTCACTTTCTCCAGTGCTCAACTGTTAGATATTAATCTTGGCAAACCTGCT
TAATCTTGTGGATTTTGTAGATGGTTTCAAATGACTGAAGTGCATTTCAGATTTACGAGTGAAAGGAAAAATTGCA
TTAGTTGGTTGCATGAACTTCGAAGGGCAGATATTACTGCACAACTGCCATCTCGCTTCATTTTTTAACTATG
CATTTGAGTACAGACTAATTTTTAAATATGCTAACTGGAAGATTAAACAGATGTGGGCCAACTGTTCTGGAT
CAGGAAAGTCATACTGTTCACTTTCAAGTTGGCTGTCCCCCGCGCGCCCCCCCCACCCCCATATGTACAGATGA
TAATAGGGTGTGGAATGTCGTCAGTGGCAAACATTTACAGATTTTTATTTTGTCTGTCTTCAACATTTTTGA
CACTGTGCTAATAGTTATATTCAGTACATGAAAAGATACTACTGTGTTGAAAGCTTTTTAGGAAATTTTGACAGT
ATTTTTGTACAAAACATTTTTTTGAAAAATACTTGTTAATTTATTCTATTTTAATTTGCCAATGTCAATAAAAA
GTTAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 683

MADHMMAMNHGRFPDGTNGLHHHPAHRMGMGQFPSPHHHQQQQPQHAFNALMGEHIHYGAGNMNATSGIRHAMGP
GTVNGGHPPSALAPAARFNNSQFMGPPVASQGGSLPASMQLQKLNNQYFNHHPYPHNHYMPDLHPAAGHQMNGTN
QHFRDCNPKHSGGSSTPGGSGGSSTPGGSGSSSGGGAGSSNSGGGSGSGNMPASVAHVPAAMLPPNVIDTDFIDE
EVLMSLVIEMGLDRIKELPELWLGQNEFDFMTDFVCKQQPSRVSC

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FIGURE 684

ACACGGACCAAGGAGTCTAACACGTGCGCGAGTCGGGGGCTCGCACGAAAGCCGCGCTGGCGCAATGAAGGTGAA
GGCCGGCGCGCTCGCCGGCCGAGGTGGGATCCCGAGGCCTCTCCAGTCCGCCGAGGGCGCACCAACCGGCCCGTCT
CGCCCGCCGCGCGCGGGGAGGTGGAGCACGAGCGCACGTGTTAGGACCCGAAAGATGGTGAAGTATGCTGGGCAG
GGCGAAGCCAGAGGAAACTCTGGTGGAGGTCCGTAGCGGTCTGACGTGCAAATCGGTTCGTCCGACCTGGGTATA
GGGGCGGGCTCCAGGCGAGGCGGTTCGACGCTCCTGAAAACCTGCGCGCGCGCTCGCGCCACTGCGCCCCGAGCGA
TGAAGATGGTCGCGCCCTGGACGCGGTTCTACTCCAACAGCTGCTGCTTGTGCTGCCATGTCCGCACCGGCACCA
TCCTGCTCGGCGTCTGGTATCTGATCATCAATGCTGTGGTACTGTTGATTTTATTGAGTGCCCTGGCTGATCCGG
ATCAGTATAACTTTTCAAGTTCTGAACTGGGAGGTGACTTTGAGTTTCATGGATGATGCCAACATGTGCATTGCCA
TTGCGATTTCTCTTCTCATGATCCTGATATGTGCTATGGCTACTTACGGAGCGTACAAGCAACGCGCAGCCTGGA
TCATCCCATTCTTCTGTTACCAGATCTTTGACTTTGCCCTGAACATGTTGGTTGCAATCACTGTGCTTATTTATC
CAAACCTCCATTTCAGGAATACATACGGCAACTGCCTCCTAATTTTCCCTACAGAGATGATGTGATGTGCTGAAATC
CTACCTGTTTGGTCTTATTATTCTTCTGTTTATTAGCATTATCTTGACTTTTAAAGGGTACTTGATTAGCTGTG
TTTGGAAGTGTACCGATACATCAATGGTAGGAACCTCCTGATGTCTGCTGTTTATGTTACCAGCAATGACACTA
CGGTGCTGCTACCCCCGATGATGATGCCACTGTGAATGGTGTGCTGCCAAGGAGCCACCGCCACCTTACGTGTCTG
CCTAAGCCTTCAAGTGGGCGGAGCTGAGGGCAGCAGCTTGACTTTGCAGACATCTGAGCAATAGTTCTGTTATTT
CACTTTTGGCATGAGCCTCTCTGAGCTTGTTTGTGCTGAAATGCTACTTTTTTAAATTTAGATGTTAGATTGAA
AACTGTAGTTTTTCAACATATGCTTTGCTAGAACACTGTGATAGATTAAGTGTAGAATTCTTCCTGTACGATTGGG
GATATAATGGGCTTCACTAACCTTCCCTAGGCATTGAAACTTCCCCCAAATCTGATGGACCTAGAAGTCTGCTTT
TGTACCTGCTGGGCCCCAAAGTTGGGCATTTTTCTCTCTGTTCCCTCTCTTTTGAAATGTAAAAATAAAACCAA
AATAGACAACTTTTTCTTCAGCCATTCCAGCATAGAGAACAAACCTTATGGAAACAGGAATGTCAATTGTGTAA
TCATTGTTCTAATTAGGTAAATAGAAGTCCTTATGTATGTGTTACAAGAATTTCCCCCACAACATCCTTTATGAC
TGAAGTTCAATGACAGTTTGTGTTTGGGTGGTAAAGGATTTTCTCCATGGCCTGAATTAAGACCATTAGAAAGCA
CCAGGCCGCTGGGAGCAGTGACCATCTGCTGACTGTTCTTGTGGATCTTGTGTCCAGGGACATGGGGTGACATGCC
TCGTATGTGTTAGAGGGTGGAATGGATGTGTTTGGCGCTGCATGGGATCTGGTGCCCCCTCTTCTCCTGGATTAC
ATCCCCACCCAGGGCCCCGCTTTTACTAAGTGTCTGCCCTAGATTGGTTCAAGGAGGTCATCCAAGTACTTTAT
CAAGTGAATTGGGATATATTTGATATACTTCTGCCTAACACATGGAAAAGGGTTTTCTTTCCCTGCAAGCTA
CATCCTACTGCTTTGAACTTCCAAGTATGTCTAGTCACCTTTTAAATGTAAACATTTTCAGAAAAATGAGGATT
GCCTTCCTTGATGCGCTTTTACCTTGACTACCTGAATTGCAAGGGATTTTATATATTCATATGTTACAAAGT
CAGCAACTCTCCTGTTGGTTCATTATTGAATGTGCTGTAAATTAAGTTGTTTGCAATTAAACAAGGTTTGCCCA
CAAAAAAAAAA

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FIGURE 685

MVNYAWAGRSQRKLWWSVAVLTCKSVVRPGYRGGLQARRSTLLKTCARARATAPGAMKMVAPWTRFYNSCCLC
CHVRTGTILLGVWYLIINAVVLLILLSALADPDQYNFSSSELGGDFEFMDDANMCIAIAISLLMILICAMATYGA
YKQRAAWIIPFFCYQIFDFALNMLVAITVLIYPNSIQEYIRQLPPNFPYRDDVMSVNPTCLVLIILLFISIILTF
KGYLISCYWNCYRYINGRNSSDVLVYVTSNDTTVLLPPYDDATVNGAAKEPPPPYVSA

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FIGURE 686

TCCACGGTGGCATCCATGATGCATCGTCAGGAGACTGTGGAGTGTGCGCAAGTTCAATGCCCCGAGAAAACTG
AAGGGTGCCATCCTCACGACCATGCTTGCTCTCCAGGAACCTTCTCAGCTGCCAAAAACCTATTGAACAAGAAGTCG
GATGGCGGTGTCAAGCCAAGAAACAACCTACAAGCTATAGAATTTAACAAAGCTTTACTTGCTATGTACACAAACC
AGGCTGAACAATGCCGCAAAATATCTGCCAGTTTACAGTCCCAAAGTCCCGAGCATCTCTTACCTGTGTAAATCC
AAGCTGCCCAGCTCTGCCGTGAAAAGCAGCACACAAAAGCAATAGAGCTGCTTCAGGAATTTTCAGATCAGCATC
CAGAAAATGCAGCTGAAATTAAGCTGACCATGGCACAGTTGAAAATTTCTCAAGGTAATATTTCTAAAGCATGTT
TAATATTGAGAAGCATAGAGGAGTTAAAGCATAAACCAGGCATGGTATCTGCATTAGTTACCATGTATAGCCATG
AAGAAGATATTGATAGTGCCATTGAGGTCTTCACACAAGCTATCCAGTGGTATCAAACCATCAGCCAAAATCTC
CTNCTCATTGTCTTGATAAGAGAAGCTGCAAACTTCAAACCTCAAATATGGGCGGAAGAAGGAGGCAATTAGTG
ACCTACAACAGCTGTGGAAACAAAATCCAAAAGATATTCACACCCTGGCACAGCTTATTTCTGCTTACTCACTTG
TAGATCCAGAGAAAGCCAAAGCTCTTAGTAAACACTTGCCATCGTCAGATAGTATGTCACTAAAAGTAGATGTTG
AGGCTCTTGAAAATTCTGCTGGTGCTACATACATTCGGAAGAAGGGTGGAAAAGTTACTGGAGATAGTCAACCAA
AGGAACAAGGACAGGGAGATTGAAAAAGTAGCAAAAAAAAAAAAAAAAAAACTTAAAGCTATCGATTCTGG

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FIGURE 687

MYTNQAEQCRKISASLSQSPEHLLPVLIQAAQLCREKQHTKAIELLQEFSDQHPENAAEIKLTMAQLKISQNI
SKACLIILRSIEELKHKPGMVSAVLTMYSHEDIDSAIEVFTQAIQWYQNHQPKSPXHLSLIREAANFKLKYGRKK
EAIISDLQQLWKQNPDKIHTLAQLISAYSLVDPEKAKALSKHLPSSDSMSLKVDVEALENSAGATYIRKKGGKVTG
DSQPKEQGQGDLLK

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FIGURE 688

GTCCCAACTCTTGGACTCCATTGCTATTCTCTCTTTCTCCCCACACCTATCTGGTGGTGGTAGTGGGCGFTT
ATATTTGCGTTCCTTTTCATTCATTTCTAAATCTCTTAAAAATTTTGGGTTGGGGGTATTGGGGAAGGCAGGAAA
GGGAAAAGGAGAGTAGTAGCTGAAGAGCAAGAGGAGGACATGGAGATGAAGAAGAAGATTAACTGGAGTTAAGG
AACAGATCCCCGGAGGAGGTGACAGAGTTAGTCCTTGATAATTGCCTGTGTGTCAATGGGGAAATTGAAGGCCTG
AATGATACTTTCAAAGAACTAGAATTTCTGAGTATGGCTAATGTGGAACCTAAGTTCGCTGGCCCGGCTTCCCAGC
TTAAATAAACTTCGAAAAATTGGAGCTTAGTGATAATATAATTTCTGGAGGCTTGGAAGTCCTGGCAGAGAAATGT
CCAAATCTTACCTACCTCAATCTGAGTGGAACAAAATAAAAGATCTCAGTACAGTAGAAGCTCTGCAAAATCTT
AAAAATTTGAAAAGTCTTGACCTGTTTAACTGTGAGATCACAAACCTGGAAGATTATAGAGAAAGTATTTTTGAA
CTACTGCAGCAAAATCACATACTTAGATGGATTTGATCAGGAGGATAATGAAGCGCCGGACTCTGAAGAGGAGGAT
GATGAGGATGGAGATGAAGATGATGAAGAGGAAGAGGAAAATGAAGCTGGTCCACCGGAAGGATATGAGGAAGAG
GAGGAGGAAGAGGAAGAGGAGGATGAGGATGAGGATGAAGATGAAGATGAAGCAGGTTCAGAGTTGGGAGAGGGA
GAAGAGGAAGTGGGCCTCTCATACTTAATGAAAGAAGAAATTCAGGATGAAGAAGATGATGATGACTATGTTGAA
GAAGGGGAAGAAGAGGAAGAAGAGGAAGAAGGAGGTCTTCGAGGGGAGAAGAGGAAACGAGATGCTGAAGACGAT
GGAGAGGAAGAAGATGACTAGATCATTCTAAGACCAGATTCTCTAATGTTTCTGGGTGTGCAATAGAGTGATCAC
ATCTTTGTTTCTTCATGTACGATAGCTATCCCTACAGAAGATAATGTGTAACTTTTTATAGGAAAAGTGTGGTTT
TACTATTTTTGCCTTATCATTCCAAATAAGAACTAGTCTGTTAATGATCATATTGTATGTAGAGAAAAATTTTCA
TTGACTCCCATTGTGGAATTCCTAGCAATTTATTTAGACTTAATTTTTTAAATTCAAGCTTACTGTATTAGTCA
TTTTTAGCCCATAAATTAACATGATCACTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 689

MEMKKKINLELRNRSPEEVTELVLDNCLCVNGEIEGLNDTFKELEFLSMANVELSSLARLP
SLNKLRKLELSdni
ISGGLEVLAEKCPNLTyLNLSGNKIKDLSTVEALQNLKNLKSldlFNCEITNLEDYRESIFELLQQITYLDGFDQ
EDNEAPDSEEEDEDEDGDEDEDEEEENEAGPPEGYEEEEEEEEDEDEDEDEDEAGSELGEGEEVGLSYLMKEE
IQDEEDDDDYVEEGEEEEEEEGGLRGEKRKRDAEDDGEEEDD

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FIGURE 690A

GGGCGCAGAGGAGGAAAGGGAGCAGGCGCAGGGGGACTGGAAAGGCAGCATGCGCTCGCCAGGAGCAACCTCGGC
GCCCAGGGTCTGAGGCTGCAGCCCCAGTTCCGCATTGTGAGCCGCCGCCGGGGAGTCCGCTAGCGCAGCCGTGC
CCCCAGTCCCCGTCCGCGCAGCGATCGGGCACCTGCCACGGGGATACACGGCGCCCGCCCTCTGCCTCTG
CTCTGGCTCTTTGTGCTGTTCAAGAATGCTACAGCTTTCCATGTAAGTGTCCAAGATGATAATAACATCGTTGTC
TCATTAGAAGCTTCAGACGTCATCAGTCCAGCATCTGTGTATGTTGTGAAGATAACTGGTGAATCCAAAAATTAT
TTCTTCGAATTTGAGGAATTCAACAGCACTTTGCCTCCTCCTGTTATTTTCAAGGCCAGTTATCATGGCCTTTAT
TATATAATCACTCTGGTAGTGGTAAATGGAAATGTGGTGACCAAGCCATCCAGATCAATCACTGTGTTAACAAAA
CCTCTACCTGTAACCAGTGTTCATATATGACTATAAACCTTCTCCTGAAACAGGAGTCTGTGTTGAAATACAT
TATCCAGAAAAATATAACGTTTTTCAAGAGTGAACATTAGCTACTGGGAAGGTAAAGACTTCCGGACAATGCTA
TATAAGATTTCTTTAAGGGAAAAACAGTATTTAATCACTGGCTGCCAGGAATGTGTTATAGTAATATCACCTTT
CAGCTGGTATCTGAGGCAACTTTTAATAAAAGTACCCTTGTTGAGTACAGTGGTGTGAGTCACGAACCCAAACAG
CACAGAAGTCCCCCTTATCCACCTCAAAATATTTCCGTTTCGTATCGTAAACTTGAACAAAAACAAGTGGGAAGAA
CAGAGTGGCAATTTCCAGAGAATCCTTCATGAGATCACAAGATACAATAGGAAAAAGAAAACTCTTCCATTTT
ACAGAAGAAACCCCTGAAATTCCTCGGGCAACATTTCTTCCGGTTGGCCTGATTTTAATAGCAGTGACTATGAA
ACTACGTCTCAGCCATATTGGTGGGACAGTGCATCTGCAGCTCCTGAAAGTGAAGATGAATTTGTCAGCGTACTT
CCCATGGAATACGAAAATAACAGTACACTCAGTGAGACAGAGAAGTCAACATCAGGCTCTTTCTCCTTTTTCCCT
GTGCAAATGATATTGACCTGGTTACCACCCAAACCACCCACTGCTTTTGATGGGTTCCATATCCATATTGAACGA
GAAGAGAACTTTACTGAATATTGATGGTGGATGAAGAAGCACATGAATTTGTTGCAGAACTGAAGGAACCTGGG
AAATATAAGTTATCTGTGACAACCTTTAGTTCTCAGGATCTTGTGAAACTCGAAAAAGTCAAGTCAGCAAAATCA
CTCAGCTTTTATATCAGTCCCTCAGGAGAGTGGATTGAAGAAGTACCGAGAAGCCGCAGCACGTGAGTGTCCAC
GTTTTAAGCTCAACCACTGCCTTGATGTCCTGGACATCTTCCCAAGAGAACTACAACAGCACCATTGTGTCTGTG
GTGTGCTGACCTGCCAGAAACAAAAGGAGAGCCAGAGGCTTGAAAGCAGTACTGCACTCAGGTGAAGTCAAGC
AAACCTATTATTGAAATCTGGTTCCCTGGTGGCCAGTACCAGGTTGTAATATACCTAAGGAAAGGCCCTTTGATT
GGACCACCTTCAGATCCTGTGACATTTGCTATTGTTCCACAGGAATAAAGGATTTAATGCTCTATCCTTTGGGT
CCTACGGCCGTGGTTCTGAGCTGGACCAGACCTTATTTAGGCGTGTTCAGAAAATACGTGGTTGAAATGTTTTAT
TTCAACCCCTGCTACAATGACATCAGAGTGGACCACCTACTATGAAATAGCAGCAACTGTTTCTTAACTGCATCC
GTGAGAATAGCTAATCTGCTGCCAGCATGGTACTACAACCTCCGGGTACCATGGTGACGTGGGGAGATCCAGAA
TTGAGCTGCTGTGACAGCTCTACCATCAGCTTACATAACAGCCCCAGTGGCTCCGGAATCACTTCTGTGGAATAT
TTCAACAGTCTGTTATATATCAGTTGGACATATGGGGATGATAACGGACTTGTCCATTCTAGAATGCTTCAC
TGGATGGTGGTTGCAGAAGGAAAAAAGAAAAATAAAAAGAGTGTAACACGCAATGTCATGACTGCAATTCTCAGC
TTGCCCTCAGGCGACATCTATAACCTCTCAGTAACTGCTTGTAAGAGGAAAGTAATACCTCCATGCTCCGC
CTTGTCAAGCTAGAACCAGCTCCACCCAAATCACTCTTCGCAGTGAACAAAACCCAGACTTCAGTGACTTTGCTG
TGGGTGGAAGAGGGAGTAGCTGATTTCTTTGAAGTTTCTGTCAACAAGTTGGCTCCAGTCAGAAAACCAACTT
CAGGAACCAGTTGCTGTTTCTTCCCATGTCTGACCATCTCCAGCCTTCTTCCCTGCCACTGCCTACAATTGTAGT
GTCACCAGCTTTAGCCATGACAGCCCCAGTGTCCCTACGTTTATAGCCGTCTCAACAATGGTTACAGAGATGAAT
CCCAATGTGGTAGTGATCTCCGTGCTGGCCATCCTTAGCACACTTTTAATTGGACTGTTGCTTGTACCCTCAT
ATTCTTAGGAAAAAGCATCTGCAGATGGCTAGGGAGTGTGGAGCTGGTACATTTGTCAATTTTGCATCCTTAGAG
AGGGATGGAAAGCTTCCATACAACCTGGCGTAGGAGTATATTGCTTTCTTAACCCTGCTACCCTCATGTCTTTGG
ACTGATTATCTTTTGGCATTATTAATCCTTGGAGTAAAAATGGTTTAAAGAAGAGGAAACTGACAAACCCG
GTTCAACTGGATGACTTTGATGCCTATATTAAGGATATGGCCAAAGACTCTGACTATAAAATTTCTCTTCAGTTT
GAGGAGTTGAAATTGATTGGACTGGATATCCACACTTTGCTGCAGATCTTCCACTGAATCGATGTAAAAACCGT
TACACAAACATCCTACCATATGACTTCAGCCGTGTGAGATTAGTCTCCATGAATGAAGAGGAAGGTGCAGACTAC
ATCAATGCCAACTATATTCCTGGATACAACCTACCCAGGAGTATATTGCCACCCAGGGGCCACTGCCTGAAACC
AGAAATGACTTCTGGAAGATGGTCCCTGCAACAAAAGTCTCAGATTATTGTGATGCTCACTCAGTGTAAATGAGAAA
AGGAGGGTGAATGTGACCATTAAGGCAATTCACGGAAGAACTATAGCCTATGGAGACATCACTGTGGAGATG
ATTCAGAGGAAGAGCAGGACGACTGGGCCTGTAGACACTTCCGGATCAACTATGCTGACGAGATGCAGGATGTG
ATGCATTTTAACTACACTGCATGGCCTGATCATGGTGTGCCACAGCAAAATGCTGCAGAAAGTATCCTGCAGTTT
GTACACATGGTCCGACAGCAAGCTACCAAGAGCAAAGGTCCCATGATCATTCACTGCAGTGTGGCGTGGGACGG

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FIGURE 690B

ACAGGAACATTTCATTGCCCTGGACAGGCTCTTGCAGCACATTCGGGATCATGAGTTTGTTGACATCTTAGGGCTG
GTGTCAGAAATGAGGTCATACCGGATGTCTATGGTACAGACAGAGGAGCAGTACATTTTTATCCATCAGTGTGTG
CAACTGATGTGGATGAAGAAGAAGCAGCAGTTCTGCATCAGTGATGTCATATACGAGAATGTTAGCAAGTCCTAG

TTCAGAATCCGGAGCAGAGAGGACATGATGTGCGCCCATCCTCCCTTGCTTCCAGATTGTTTTAGTGGGCCCTGA
TGGTCATTTTTCTAAACAGAGGCCCTGCTTTGTAATATGTGGCCAAGGAGATAATTTATCTCACAGAAGCACCGG
GAAGACTTAGCCTTAAAGAGCCTACAGTGTCTTTTGGACTCTTTCACCTCGGGACATTTAATAATGGACCAAAT
TCAACAGAACACCAGGAAGGTCAAGACGCTCTCCAAAGGGCAGGAAGTACAGCACTTCCGAAGAGTTTAGTTGGC
CCTTTGCTGGTTGGGCTGAGTTTTTTATTTTTAAGTGTGTTGTTTTTCAGTGCAATAATTTTTGTGTGTGTGAT
TCTTATCAGAAAGTTGAATTGTTTTCTGCCTACACCGTTCATCAGCCCCATAACCCAGGAAGGAACAGGCATTGT
TAGCATCAGATTATACCTCATTATTAAAAGGAGGCATGGCCACACATGAAGAAATGGTCATTCTACTTCAAAGAA
ATTGAGCCAGCACTATCTGTACTCCAACATTACCGGATCTGGATTGGGGAGGTTGGTCAGGGAAGAGAGGGGTTT
TACCCACAGATCAACTGTGTAATCTTTTACTATTCAAGCTATAATTACAGCTTCAAAGTAGAGTAGAAAAAAATT
GTCTTAACTGTTCTAGTTCTTGATGGTTTTCTTCCTTATTAACAGTTGGTGTGTTCTTCCTTGGCCCTTTTGGACT
AATGTTACTGTCCAAGTCTTTCTCAAGAAACCACATCTGGTTCAGAAGAGTGTCAAGTTGGACTCTTTGAACTC
TGTTGCTGTCTGAGCAATCGTGGTGCCTAGACTTTGCATTTCCTTGTTCTGTTGACCTGCATACATGTGAGAGCTA
TTTCTTTAAGAACTATATAGGCTGTGAAAACGCACTTTCTTTCCCCCAAAGAGCTGGGAATTTATGAAGTTATGG
CAATGAACTGCAGCATGCTGGGACAATTATTTGACTACTTTTTTTTTGTAATATTGTCAAATGTCTCTATGGATT
TGACAGAGATTTCTTTTTGTTTTGTTATTCTTTTGTTGTCAGTTTCATTTTAACGAGTGTAAGTAGTAACATTT
TATTCTTTGGATTTTGTATAATTACAGTACATGATTGTGTATTGTGACATGAATGCTGTCAAAATGACATTGATG
GCATTGTGAAGCCTGTTACTTTGTGTCACTTCCTGATAAATAAGAGGTGATGACATGGATATACAACAGAAAACA
CTTTGAGTTGAAAGTAAACACAAGCTGGCTGCTTCCTGTGGCAACTGTGGCT

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FIGURE 691

MGHLPTGIHGARRLLPLLWLFVLFKNATAFHVTVQDDNNIVVSLEASDVISPASVYVVKITGESKNYFFEFEEFN
STLPPPVIFKASYHGLYYIITLVVNGNVVTKPSRSITVLT KPLPVT SVSIYDYKPSPETGVLF EIHYPEKYNVF
TRVNISYWEGKDFRTMLYKDFFKGKT VFNHWLPGMCYSNITFQLVSEATFNKSTLVEYSGVSHEPKQHRTAPYPP
QNISVRIVNLNKNWEEQSGNFPEESFMRSQDTIGKEKLFHFTEETPEIPSGNISSGWPDFNSSDYETTSQPYWW
DSASAPESEDEFVSVLPMEYENNSTLSETEKSTSGSF SFFPVQMILTWLPPKPP TAFDGFH IHEREENFTEYL
MVDEEAHEFVAELKEPGKYKLSVTT FSSSGSCETRKSQSAKLSFYI SP SGEWIEELTEKPQHVS VHVLSSTAL
MSWTSSQENYNSTIVSVVSLTCQKQKESQRLEKQYCTQVNSSKPI IENLVPGAQYQVVIYLRKGPLIGPPSDPVT
FAIVPTGIKDLMLYPLGPTAVVLSWTRPYLG VFRKYV VEMFYFNPATMTSEWTTYEIAATVSLTASVRIANLLP
AWYYNFRVTMTWGDPELSCCDSSTISFITAPVAPEITSVEYFN SLLYISWTYGDDTTDLSHSRMLHWMVVAEGK
KKIKKSVTRNVMTAILSLPPGDIYNLSVTACTERGSNTSMLRLVKLEPAPPKSLFAVNKTQTSVTLLWVEEGVAD
FFEVF CQQVGSSQKTKLQEPVAVSSHVVT ISSLLPATAYNCSVTSFSHDSPSVPTFIAVSTMVTEMNPNVVVISV
LAILSTLLIGLLLVTLLIILRKKHLQMARECGAGTFVN FASLERD GKLPYNWRRSIFAFLTLLPSCLWTDYLLAFY
INPWSKNGLKKRKL TNPVQLDDFDAYIKDMAKDS DYKFSLQFEELKLIGLDIPHFAADLPLNRCKNRYTNILPYD
FSRVRLVSMNEEEGADYINANYIPGYNSPQEYIATQG PLPETRNDFWKMVLQOKSQIIVMLTQCNEKR RVKCDHY
WPFTEEP IAYGDITVEMISEEEQDDWACRHFRINYADEMQDVMHFNYTAWPDHGVPTANAAESILQFVHMRVQQA
TKSKGPMI IHCSAGVGRTGT FIALDRLLQHIRDHEFVD ILGLVSEMRSYRMSMVQTEEQYIFIHQCVQLMWMKKK
QQFCISDVIYENVSKS

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FIGURE 692

CTACCTCTTCTCTCCACGCGGTTGAGAAGACCGGTCGGCCTGGGCAACCTGCGCTGAAGATGCCGGGAAAACCTC
C3TAGTGACGCTGGTTTGGAAATCAGACACCGCAATGAAAAAAGGGGAGACACTGCGAAAGCAAACCGAGGAGAAA
GAGAAAAAAGAGAAAGCCAAAATCTGATAAGACTGAAGAGATAGCAGAAGAGGAAGAACTGTTTTCCCAAAGC
TAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAATTCTCCTAAATCCAAAAAGGCAAAAAAGAA
AGCCATCTCAAAATGACATTTCTCCTAAAACCAAAGTTTGAGAAAGAAAAAGGAGCCCATGAAAAGAA
ITCTTCTTAAAACCAAAGTGACAAAAATGAGGAGCCTTCTGAGGAAGAAATAGATGCTCCTAAGCC
AAGATGAAGAAAGAAAAGGAAATGAATGGAGAACTAGAGAGAAAAGCCCCAACTGAAGAATGGATTTCC
TATCCTGAACCGGACTGTAACCCAGTGAAGCTGCCAGTGAAGAAAGTAACAGTGAGATAGAGCAGGAAATACC
GAACAAAAAGAAGGCGCTTTCTCTAATTTTCCCATATCTGAAGAACTATTAACTTCTCAAAGGCCGAGG
ACCTTCTTATTTCTATACAAGCAAAGACATTCCATCATGTTTACAGCGGGAAGGACTTAATTGCACAGGC
CAGGAAGTGGGAAGACATTCTCCTTTGCCATCCCTTTGATTGAGAACTTCATGGGGAAGTGAAGACAG
AGAGGCCGTGCCCTCAGGTACTGGTTCTTGACCTACAAGAGAGTTGGCAAATCAAGTAAGCAAAGACTT
TGACATCACAAAAAGCTGTCACTGGCTTGTTTTATGGTGGAACCTCCCTATGGAGGTCAATTTGAACGCAT
TGAATGGGATTGATATCTGGTTGGAACACCAGGTCGTATCAAAGACCACATACAGAATGGCAAACCTAGATCT
CAACAACTTAAGCATGTTGTCTGGATGAAGTGGACCAGATGTTGGATATGGGATTTGCTGATCAAGTGGGAAG
GATTTTAAGTGTGGCATAACAAGAAAGATTCTGAAGACAATCCCCAAACATTGCTTTTTTCTGCAACTTGCCCTCA
TTGGGTATTTAATGTTGCCAAGAAATACATGAAATCTACATATGAACAGGTGGACCTGATTGGTAAAAAGACTCA
GAAAACGGCAATAACTGTGGAGCATCTGGCTATTAAGTGCCACTGGACTCAGAGGGCAGCAGTTATTGGGGATGT
CATCCGAGTATATAGTGGTCATCAAGGACGCACTATCATCTTTTGTAACCAAGAAAGAAAGCCCAGGAGCTGTC
CCAGAATTCAGCTATAAAGCAGGATGCTCAGTCCTTGATGGAGACATTCCACAGAAGCAAAGGGAAATCACCTT
GAAAGGTTTTAGAAATGGTAGTTTTTGGAGTTTTTGGTGGAACCAATGTTGCTGCACGTGGGTTAGACATCCCTGA
GGTTGATTGGTTATACAAAGCTCTCCACCAAAGGATGTAGAGTCTTACATTATCGATCCGGGCGGACAGGCAG
AGCTGGAAGGACGGGGGTGTGCATCTGCTTTTATCAGCACAAGGAAGAATATCAGTTAGTACAAGTGGAGCAAAA
AGCGGGAATTAAGTTCAAACGAATAGGTGTTCTTCTGCAACAGAAATAATAAAAGCTTCCAGCAAAGATGCCAT
CAGGCTTTTGGATTCCGTGCCTCCCACTGCCATTAGTCACTTCAAACAATCAGCTGAGAAGCTGATAGAGGAGAA
GGGAGCTGTGGAAGCTCTGGCAGCAGCACTGGCCCATATTTAGGTGCCACGTCCGTAGACCAGCGCTCCTTGAT
CAACTCAAATGTGGGTTTTGTGACCATGATCTTGCACTGCTCAATTGAAATGCCAAATATTAGTTATGCTTGGAA
AGAACTTAAAGAGCAGCTGGGCGAGGAGATTGATTCAAAGTGAAGGGAATGGTTTTTCTCAAAGGAAAGCTGGG
TGTTTGCTTTGATGTACCTACCGCATCAGTAACAGAAATACAGGAGAAATGGCATGATTACGACGCTGGCAGCT
CTCTGTGGCCACAGAGCAACCAGAATGGAAGGACCACGGGAAGGATATGGAGGCTTCAGGGGACAGCGGGAAGG
CAGTCGAGGCTTCAGGGGACAGCGGGACGGAAACAGAAGATTAGAGGACAGCGGGAAGGCAGTAGAGGCCGAG
AGGACAGCGATCAGGAGGTGGCAACAAAAGTAACAGATCCCCAAACAAAGGCCAGAAGCGGAGTTTCAGTAAAGC
ATTTGGTCAATAATTAGAAATAGAAGATTATATAGCAAAAAGAGAATGATGTTTGGCAATATAGAAGTGAACAT
TATTTTTCATGCAAAGTTAAAAGCACATTGTGCCTCCTTTTGACCCTTGCCAAGTCCCTGTCTCTTTCAGACAC
AGACAAGCTTCATTTAAATTATTTCACTGATCATTATCATTATACTTTATTGTTACTTCATCAGTTTTTCTT
TTTGAAAGGTGTATGAATTCATTACATTTTATTCTAATGTATTATCTGTAGATTAGAAGATAAAATCAAGCATG
TATCTGCCTATACTTTGTGAGTTCACCTGTCTTTATACTCAAAGTGTCCCTTAATAGTGTCTTCCCTGAAATA
AATACCTAAGGGAGTGTAAACAGTCTCTGGAGGACCCTTTGAGCCTTTGGAAGTTAAGGTTTCTCAGCCACCTG
CCGAACAGTTTCTCATGTGGTCCATTATTTGTCTACTGAGACTTAATACTGAGCAATGTTTTGAAACAAGATTT
CAAATAATCTGGGTTGTAATACAGTTTATACAGTGTATGCTCTAGACTTGAAGATGTAGTATGTTTGTATGTG
GATTACCTATACTTATGTTCTGTTTGTATACATTTTATAGCTTCTCATTATAAGGTGATTGCTTTTAGTGAATTC
TTCATAGATAGTATATATAAAGTACATTTTAAAGAAAGCCAGGGTTTTAAGGAATTTACATGTATAAGGTGG
CTCCATAGCTTTATTTGTAAGTAGGCTGGATAAATGGTGCTTAAATGGTAATGTACTCCACTTCTTCTTATTGGA
AGATTAACATTATTTACCAAGAAGGACTTAAGGGAGTAAGGGGCGCAGATTAGCATTGCTCAAGAGTATGTAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 693

MNSPKSKKAKKKEEPSQNDISP KTKSLRKKKEPIEKKVSSKTKKVTKNEEPSEEEIDAPKPKMKKKEKEMNGET
REKSPKLKNGFPHPEPDCNPSEAASEESNSEIEQEIPVEQKEGAFSNFPISEETIKLLKGRGVTF LFPIQAKTFH
HVYSGKDLIAQARTGTGKTFSFAIPLIEKLHGELQDRKRGRAPQVLVLAPTRELANQVSKDFSDITKKLSVACFY
GGTPYGGQFERMRNGIDILVGTPGRIKDHIQNGKLDLTKLKHVVLDQMLDMGFADQVEEILSVAYKKDSEDN
PQTLIFSATCPHWVFNVAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHWTQRAAVIGDVIRVYSGHQGRTII
FCETKKEAQELSQNSAIKQDAQSLHGDIPQKQREITLKGFNRGSFGVLVATNVAARGLDIPEVDLVIQSSPPKDV
ESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKFKRIGVPSATEIIKASSKDAIRLLDSVPPTAISH
FKQSAEKLIEEKGAVEALAAALAHISGATSVDQSRSLINSNVGFVTMILQCSIEMPNISYAWKELKEQLGEEIDSK
VKGMVFLKGKLGVCFDVPTASVTEIQEKWHDSSRRWQLSVATEQPELEGPREGYGGFRGQREGSRGFRGQRDGNRR
FRGQREGSRGPRGQRSGGGNKSNSRQNKGQKRSFSKAFGQ

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FIGURE 694

CCGCTGTCAAGATGCTTCTGGCCATGGTCCTTACCTCTGCCCTGCTCCTGTGCTCCGTGGCAGGCCAGGGGTGTC
CAACCTTGGCGGGGATCCTGGACATCAACTTCCTCATCAACAAGATGCAGGAAGATCCAGCTTCCAAGTGCCACT
GCAGTGCTAATGTGACCAGTTGTCTCTGTTTGGGCATTCCCTCTGACAACTGCACCAGACCATGCTTCAGTGAGA
GACTGTCTCAGATGACCAATACCACCATGCAAACAAGATACCCACTGATTTTCAGTCGGGTGAAAAAATCAGTTG
AAGTACTAAAGAACAACAAGTGTCCATATTTTTCTGTGAACAGCCATGCAACCAAACACGGCAGGCAACGCGC
TGACATTTCTGAAGAGTCTTCTGGAAATTTCCAGAAAGAAAAGATGAGAGGGATGAGAGGCAAGATATGAAGAT
GAAATATTATTTATCCTATTTATTAAATTTAAAAAGCTTTCTTTAAGTTGCTACAATTTAAAAATCAAGTAAG
CTACTCTAAATCAGTATCAGTTGTGATTATTTGTTTAACATTGTATGTCTTTATTTTGAATAAAT

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FIGURE 695

MLLAMVLTSALLCSVAGQGCPFLAGILDINFLINKMQEDPASKCHCSANVTSCCLCLGIPSDNCTRPCFSERLSQ
MTNTTMQTRYPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTFKSLLEIFQKEKMRGMRGKI

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FIGURE 696

CGATTTTCATTCTCGCTCCCCACAGGTCCCTCTCCCCAAAATATTCCCATCTTGTCCTAGCCCATCCCCAGACT
ATCTCAAGGACCAGCTGTCCCCACGCCCCGACCTCCACTAGGCCTGTGCCACCCGCTGCCTGCAGGAAGACGCC
CGGTCCCGGGCCGGGTTAGCCCCATGGGAACGCAGCGCCTGTGTGGCCGCGGGACTCAAGGCTGGCCTGGCTCAA
GTGAACAGCACGTCCAGGAGGCGACCTCGTCCGCGGGTTTGATTCTGGGGTGGACGAGCTGGGGGTTCGGTCCG
AGCCCGGTGGGAGGCTCCCGGAGCGCAGCCTGGGCCCAGCCACCCCGCGCCGGCGGCCATGGCAGGCACCCTGG
ACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGAAGCCTTCGATGACTCCGGGAAGGTGC
GGGACCCCGCAGCTGGTGCAGCATGTTCCCTCATGATGCACCCCTGGTACATCCCTCCTCTCAGCTGGCGGCCAAGC
TGCTCCACATCTACCAACAATCCCGGAAGGACAACCTCCAATTCCCTGCAGGTGAAAACGTGCCACCTGGTCAGGT
ACTGGATCTCCGCCCTTCCCAGCGGAGTTTGACTTGAACCCGGAGTTGGCTGAGCAGATCAAGGAGCTGAAGGCTC
TGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGACAGCGTCCCTACCTACAAGTGGGAAGC
GGCAGGTGACTCAGCGGAACCCCTGTGGGACAGAAAAAGCGCAAGATGTCCCTGTTGTTTGACCACCTGGAGCCCA
TGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAAGATCCTGTTTCAGGACTATCACAGTT
TCGTGACTCATGGCTGCACTGTGGACAACCCGTCCTGGAGCGGTTTCATCTCCCTCTTCAACAGCGTCTCACAGT
GGGTGCAGCTCATGATCCTCAGCAAACCCACAGCCCCGACGCGGGCCCTGGTCATCACACACTTTGTCCACGTGG
CGGAGAAGCTGCTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGTCGGGGGCCTGAGCCACAGCTCCATCT
CCCGCCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCTCTGGGAGGGTCTCACGGAAGTAGTGA
CGGCGACAGGCAACTATGGCAACTACCGGCGTCGGCTGGCAGCCTGTGTGGGCTTCCGCTTCCCGATCCTGGGTG
TGCACCTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCTGGACCCAGCCCGGACCCGGCTCAACG
GGGCCAAGATGAAGCAGCTCTTTAGCATCCTGGAGGAGCTGGCCATGGTGACCAGCCTGCGGCCACCAAGTACAGG
CCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCAGACGGAGGATGAGCTGTACCAGCTGT
CCCTGCAGCGGGAGCCGCGCTCCAAGTCTCGCCAACCAGCCCCACGAGTTGCACCCCCACCACCCCGGCCCCCGG
TACTGGAGGAGTGGACCTCGGCTGCCAAACCCAAGCTGGATCAGGCCCTCGTGGTGGAGCACATCGAGAAGATGG
TGGAGTCTGTGTTCCGGAACCTTTGACGTCGATGGGGATGGCCACATCTCACAGGAAGAATTCCAGATCATCCGTG
GGAACCTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGATGGCTGCATCAGCAGGGAGGAGATGG
TTTCCTATTTCTGCGCTCCAGCTCTGTGTTGGGGGGGCGCATGGGCTTCGTACACAACCTCCAGGAGAGCAACT
CCTTGCGCCCCGTCGCTGCCGCCACTGCAAAGCCCTGATCCTGGGCATCTACAAGCAGGGCCTCAAATGCCGAG
CCTGTGGAGTGAAGTGCACAAAGCAGTGCAAGGATCGCCTGTGAGTTGAGTGTGCGCGCAGGGCCCAGAGTGTGA
GCCTGGAGGGGTCTGCACCCCTCACCCCTCACCCATGCACAGCCACCATACCGCGCCTTCAGCTTCTCTCTGCCCC
GCCCTGGCAGGCGAGGCTCCAGGCCCTCCAGAGATCCGTGAGGAGGAGGTACAGACGGTGGAGGATGGGGTGTGTTG
ACATCCACTTGTAAATAGATGCTGTGGTTGGATCAAGGACTCATTCTGCCTTGGAGAAAATACTTCAACCAGAGC
AGGGAGCCTGGGGGTGTGCGGGCAGGAGGCTGGGGATGGGGGTGGGATATGAGGGTGGCATGCAGCTGAGGGCAG
GGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTGTGAATATTTGTATTTTCCAGATGGAATAAAAAGGCC
GTGTAATTAACCTTCA

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FIGURE 697

MGTQRLCGRGTQGWPGSSEQHVQEATSSAGLHSGVDELGVRSEPGGRLPERSLGPAPAPAAAMAGTLDLDKGCTV
EELLRGCI EAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKLLHIYQQSRKDNSNSLQVKTCHLVRYWISAFPA
EFDLNP ELAEQIKELKALLDQEGNRRHSSLIDIDSVP TYKWK RQVTQRNPVGQKKRKMSLLFDHLEPMELAEHLT
YLEYRSFCKILFQDYHSFVTHGCTVDNPVLERFISLFNSVSQWVQLMILSKPTAPQRALVITHFVHVAEKLLQLQ
NFNTLM AVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELVTATGNYGNYRRRLAACVGFRFPILGVHLKDLVA
LQLALPDWLD PARTRLNGAKMKQLFSILEELAMVTS LRPPVQANPDLLSLLTVSLDQYQTEDELYQLSLQREPRS
KSSPTSPTSCTPPPRPPVLEEWTSAAKPKLDQALVVEHIEKMVESVFRNFDVDGDGHISQEEFQIIRGNFPYLSA
FGDLDQNQDGCISREEMVSYFLRSSSVLGGRMGFVHNFQESNSLRPVACRHCKALILGIYKQGLKCRACGVNCHK
QCKDRLSVECRRAQSVSLEGSAPSPSPMHSHHHRAFSFSLPRPGRRGSRPPEIREEEVQTVEDGVFDIHL

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FIGURE 698A

AGCTTGAGCGCGGCGGCGGCGGCTTGTTTCAGTCAGAGCGGAGAACATTCCAGAGGTCGCCCAGCTCCGGCGCTGACGG
GTGTGGACCGCGGACGTCGCTGGGACAGCCCCCTCCCCGCTGCTCGGCGGCGGCATCTGGCCCGGCGCTCCTCGC
TGGCTTCGCTCCGCTCCTCGGACTCGGACTCGGGTTTATATCGCGCTCACTTCATCCAGTCCCGGGCGAG
CAGCGTTGGGTTTATGTCTTTATTTGACGAAAACGAGCTGTTGCGCAGCCATTGGTACCTGTATTGGGGAACAT
ATACAAGCAAGAAGCTTACAGCCTCAGTGGCGAAAATTTTTTCATGTCAGAGACCGAGAACTCTTGACGTCG
GTCATCCCTTCTTCTCCAGACAGAAGATACCAAAAAGTTGCAATCAAAGATCTCTTCATCTTATTGATAA
ACTAATAAGCCAAAATGCTCTGTCAATGTCAACCGCAGCGTGTGACACCAGTTCTATCGCTACAAGATGCCC
GCTGATTGCCAAGGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAG
TTAATCGGCTCCAACGTATCCACCAAATATTTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTT
AATGACCGTTACATTGTCAATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGATGGATTCAATAAA
TTGTTCTCTGTCTGAATGTGAGAATCCTGAAACAGATTTGCATGTCAATCCAAAGAAGCAAACAATAGGT
CTTGTAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAACTCTGCACATTCACTCTCAAAAAC
CCTGAGAATAGTGACAGTGGTACAGGAAAGAAAGAAAAGAAAAGAAAACAGAAAGGGCAAAGACAAGGAA
AAGGCTCCGTATCCAGCAGTGAGACACCACCACCACCACCACCACCAATGAAATTAATCCTCCTCCACATACA
AAGGAAGAAGAGGAGGATGATGACTGGGAGAAGATACAAGTGAAGGAGCTCAAAGGCGTCGAATGGATGAAATC
AGTGACCATGCAAAAGTTCTGACACTCAGTGATGATTTGGAAAGAACAATTGAGGAGAGGGTCAATATCCTCTTT
GATTTTGTAAAGAAAAGAAAGAAAGAGGGTGTATTGATTTCATCTGACAAAGAAATCGTTGCTGAAGCAGAAAGA
CTGGATGTAAAGCCATGGGCCCCTCTTGTTCTAACTGAAGTTCTTTTTAATGAGAAGATTAGAGAACAGATTAAG
AAATACAGGCGCCATTTCCTACGATTTTGTGACAAACAACAAAAAGCCCCAACGGTACCTTCTTCATGGTTTGGAG
TGTGTGGTAGCAATGCATCAAGCTCAGCTTATCTCCAAGATTCCACATATCTTGAAGGAGATGTACGATGCAGAC
CTTTTAGAAGAAGAGGTCAATCAGCTGGTCGGAAAAGGCCTCTAAGAAATATGTCTCAAAGAAGCTTGCCAAA
GAGATTCGTGTCAAAGCAGAACCATTTATAAAATGGTTGAAGGAGGCAGAGGAAGAACTCTTGGTGGCGAAGAA
GAAGATGAAGATGAGAACATTGAGGTGGTGTATTGGAAGGCTGCCAGTGACCGAAAGTTGAGACTGTAAAGTCA
GACAACAAGGATGACGACATCGATATTGATGCCATTTAAGGGATGGATGCAACCTAGCTTAACAGTATAATGCT
GCAATTTTCTCCATTATCAGCCAGAAGTGCAACATGTATGTGCAAAAGCTAAATGGCTTAACATCATGCTAC
ACTTTACACTAAAATCTATTACTGTGAGTGGTCTGTTATTAAGCCCAATGAGACATCTAGGGAGTCCATACACA
TCAGTGAGCAGATGTAGTTTGCTTATTTATAGCATGTTTCTTTTTGAAAACTAGTGGTGGACACATTTGGATCA
CATTTATACAGTTATAAAAATAAAGGTTTGATTTTGGTCGTTCTTCAGATGTTTGGCTCTGAATGACTTAAGCTG
AAGTAACTGGCTCCTTACTTTAAATGTTCTGCCATCATTTACCTGATGAGCATTCTTGGAGCCTGCCAGATATT
GTTAGGTCCTGGGGCTGCAAAGAGGTCTCAACAGGATGTAAAGCAAACCTAATTGTAATTAATTTATTAGCCC
ATTAAGAAAGTACTAAAGTTTTATCTCTGTAGTTCTCAAATTGGCATCTGGTAATGTACATTGTGAGGTAGACT
GATAATGAAATGACAGTGCAACATCTTAACCAAGAAGTAAATATGACCTCAGTGTCTTATAAATAATGTAAGAGC
AGGATTTGAAACTTGAGAGCTGTTTTCTCATTTTCACTGTACACTTGCCCCAAATTGTCTTTGAAGTCGTGTGCAT
TGCAGGTTGGATGAGCCAGGGAATTATTACATTAACAAGCATTTTGTGTGTGCGTAGTAGTTACTTTGTACTGA
GAGAACTTGCTTTGGGGTGCAATTAAACAATAAACTGATTTTATTTGGGAGAAACAAGGAAGGGTGCACTTAACT
AGCAACCTAAGCATGATTTTTCAGCTTTTGGCCTTAGGGTTTAAATTACAATTCCAAAATGTTAGACATACTGTA
TTTTTTCGTTTCAGTGTGGCTTTAATTTTCCCCTCTTGCAAGTTTGTCTGTAATGCCTTTTACATTTGGACACATA
GTTTATGCTTTTTTAGATTTTGGTTGCTTTCTTGCCAAAATAAGTGTTAACTGTGTTTCAAACCTTGATTTTCTTTC
TTTTTCTTTTTTTTTCTTCCAGAATGTCTTATTTAAAAAGAAAGCTAAAAGCATACTTCTAAGTCAGAGCCTCT
ATTTTGGTGTAAGACTTGGGATATTTTTTACTTCACATTGAATATAGCCAGGCACCCAAGAGTCTGATGGCCAC
CTGAGTGCAAGTGACAAGGACCTGACAGAGCCCATGCAGGGCTTTAGATTGGACACACAAGAGTTGATAACTTC
CTCATGAACTCCTTGCCGTGATCTAAACTCATATTATGGGTTCTGACTGTTGAGTAATCGTCTTCAAGGTTAAAC
CTCTTGGCAGTTACCTTTTTACAAAGTGACAGTGGGAATCGAGAATCGATAGGGTTAATTTGGAGCAGTGGC
TTATACCATTACCTCTGTTTTTTTGTGATTATTTACAGATAATGAGACCTTAATAACAAATAGGCGTAAAAAA
ATTTTACATTGAAATGATAGAAACATTTGATGTAATAAACTTGGTTGGCTTGATATTTTAAGGAATTGAAACC
TAGCAATCTTATTGGAGAGACAAGAATTGGTCTCCAGCTGCCTTTGATCAAGATTCGGGTGCAAGTGGAGCAGGA
GCCATATACCTGGAGGGAATGTGCTTTGTACACCAAAGAGGATTTTTTTTTCTTCAAACCTTGATGTTGCCTA
GGTTTCAAATCTTTGCCGCAAGGCTGATCTGCTTTCATTAACTGGAATCTGTAGGAGATACTGGTGACCTAAG

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FIGURE 698B

CTAAGTTGCACTCAGCATACTCAGTGTCAAGCTAATGAGGTTCTATTATAAAGGTTCTACTTTTAATCTGAGGGA
AAACATGTTTCAGGGCTTCTAGAACACTAAAAAATTTGGCTTAAACCAGTGTTTCAGTCTGGTGCCAACTTCGAAT
GGAATACAAATTCACATAATCTGAACTTTGTTTCACAGGTTATCCTAATAGAGTAATTCTTCACTTTGCTCTATTG
AACTGTCCTTAAGGATTTGTTTAAACAGCTAAGTTACTTGATTAAAATAATGATAAAATTGTAAAAAAAAAAAAAA

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FIGURE 699

MSVNVNRSVSDQFYRYKMPRLIAKVEGKGNGIKTVIVNMVDVAKALNRPPTYPTKYFGCELGAQTQFDVKNDRYI
VNGSHEANKLQDMLDGF IKKFVLCPECENPETDLHVNP KKQTIGNSCKACGYRGMLDTHHKLCTFILKNPPENS
SGTGKKEKEKKNRKGKDKENGSVSSSETPPPPPPNEINPPPHMTMEEEEDDDWGEDTTEEAQRRRMDEISDHAKV
LTLSDDLERTIEERVNILFDFVKKKKEEGVIDSSDKEIVAAERLDVKAMGPLVLTEVLFNEKIREQIKKYRRHF
LRFCHNNKKAQRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEV IISWSEKASKKYVSKELAKEIRVKA
EPFIKWLKEAEEESSGEEEEDEDENIEVVYSKAASVPKVETVKS DNKDDIDIDAI

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FIGURE 700

GGGGCGGGGAGCGGACTTCCTCCTCTGAGGGCCGTGCCGCGCTGCCAGATTTGTTCTTCCGCCCCCTGCCTCCGCG
GCTCGGAGGCGAGCGGAAGGTGCCCCGGGGCCGAGGCCCGTGACGGGGCGGGCGGGAGCCCCGGCAGTCCGGGGT
CGCCGGCGAGGGGCCATGTTCGCTGTTGGGGGACCCGCTACAGGCCCTGCCGCCCTCGCGCCCCACGGGGCCGC
TGCTCGCCCCCTCCGGCCGGCGCGACCCCTCAACCGCTGCCGGAGCCGCTGCTGCGGAGGCTCAGCGAGCTCCTGG
ATCAGGCGCCCCGAGGGCCGGGGCTGGAGGAGACTGGCGGAGCTGGCGGGGAGTCGCGGGCGCCTCCGCCTCAGTT
GCCTAGACCTGGAGCAGTGTTCTCTTAAGGTACTGGAGCCTGAAGGAAGCCCCAGCCTGTGTCTGCTGAAGTTAA
TGGGTGAAAAAGGTTGCACAGTCACAGAATTGAGTGATTTCTGCAGGCTATGGAACACACTGAAGTTCTTCAGC
TTCTCAGCCCCCAGGAATAAAGATTACTGTAAACCCAGAGTCAAAGGCAGTCTTGCTGGACAGTTTGTGAAAC
TGTGTTGCCGGGCAACTGGACATCCTTTTGTTCATATCAGTGGTTCAAAATGAATAAAGAGATTCCAAATGGAA
ATACATCAGAGCTTATTTTTAATGCAGTGCATGTAAAGATGCAGGCTTTTATGTCTGTGAGTTAATAACAATT
TCACCTTTGAATTCAGCCAGTGGTCACAGCTGGATGTTTGCAGCATCCAGAGAGCTTCCAGAGAAGTGTTGATG
GCGTCTCTGAATCCAAGTTGCAAATCTGTGTTGAACCAACTTCCAAAAGCTGATGCCAGGCAGCACATTGGTTT
TACAGTGTGTTGCTGTTGGAAGCCCTATTCTCACTACCAGTGGTTCAAAATGAATTACCATTAAACACATGAGA
CCAAAAGCTATACATGGTGCCTTATGTGGATTTGGAACACCAAGGAACCTACTGGTGTCTATGTATATAATGATC
GAGACAGTCAAGATAGCAAGAAGGTAGAAATCATCATAGGAAGAACAGATGAGGCAGTGGAGTGCAGTGAAGATG
AATTAATAATCTTGGTCATCTGATAATAAAGAGCAAACAAGTACCAGCCTTTGGCGAAGGACAAGGTTGCCC
TTTTGATAGGAAATATGAATTACCGGGAGCACCCCAAGCTCAAAGCTCCTTTGGTGGATGTGTACGAATTGACTA
ACTTACTGAGACAGCTGGACTTCAAAGTGGTTTCACTGTTGGATCTTACTGAATATGAGATGCGTAATGCTGTGG
ATGAGTTTTTACTCCTTTTAGACAAGGGAGTATATGGGTTATTATATTATGCAGGACATGGTTATGAAAATTTG
GGAACAGCTTCATGGTCCCCGTTGATGCTCCAAATCCATATAGGTCTGAAAATTGTCTGTGTGTACAAAATATAC
TGAAATTGATGCAAGAAAAAGAACTGGACTTAATGTGTTCTTATTGGATATGTGTAGGAAAAGAAATGACTACG
ATGATACCATTCCAATCTTGGATGCACTAAAAGTCACCGCCAATATTGTGTTTGGATATGCCACGTGTCAAGGAG
CAGAAGCTTTTGAAATCCAGCATTCTGGATTGGCAAATGGAATCTTTATGAAATTTTTAAAAGACAGATTATTAG
AAGATAAGAAAATCACTGTGTTACTGGATGAAGTTGCAGAAGATATGGGTAAGTGTACCTTACCAAAGGCAAAC
AGGCTCTAGAGATTGGAAGTAGTTTATCTGAGAAGAGAGCACTTACTGATCCAATACAGGGAACAGAATATTCTG
CTGAATCTCTTGTGCGGAATCTACAGTGGGCCAAGGCTCATGAACCTCCAGAAAGTATGTGTCTTAAGTTGACT
GTGGTGTTCAGATTCAATTAGGATTTGCAGCTGAGTTTTCCAATGTCATGATCATCTATACAAGTATAGTTTACA
AACCACCGGAGATAATAATGTGTGATGCCTACGTTACTGATTTTCCACTTGATCTAGATATTGATCCAAAAGATG
CAAATAAAGGCACACCTGAAGAACTGGCAGCTACTTGGTATCAAAGGATCTTCCCAAGCATTGCCTCTATACCA
GACTCAGTTCACTGCAAAAATTAAAGGAACATCTAGTCTTCACAGTATGTTTATCATATCAGTACTCAGGATTGG
AAGATACTGTAGAGGACAAGCAGGAAGTGAATGTTGGGAAACCTCTCATTGCTAAATTAGACATGCATCGAGGTT
TGGGAAGGAAGACTTGCTTTCAAACCTTGTCTTATGTCTAATGGTCCTTACCAGAGTTCTGCAGCCACCTCAGGAG
GAGCAGGGCATTATCACTCATTGCAAGACCCATTCCATGGTGTTFACCATTACATCCTGGTAATCCAAGTAATG
TTACACCAGCAGATAGCTGTCAATTGCAGCCGACTCCAGATGCATTTATTTCAAGTTTCGCTCACCATGCTTCAT
GTCATTTTAGTAGAAGTAATGTGCCAGTAGAGACAACCTGATGAAATACCATTTAGTTTTCTCTGACAGGCTCAGAA
TTTCTGAAAAATGACCTCCTTGTTTTTGAAAGTTAGCATAATTTTAGATGCCTGTGAAATAGTACTGCACTTACA
TAAAGTGAGACATTGTGAAAAGGCAAATTTGTATATGTAGAGAAAGAATAGTAGTAACTGTTTCATAGCAAACCTT
CAGGACTTTGAGATGTTGAAATTACATTATTTAATTACAGACTTCCTCTTTCT

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FIGURE 701

MSLLGDPLQALPPSAAPTGPLLAPPAGATLNRLREPLLRRLSELLDQAPEGRGWRRLAELAGSRGRLRLSCLDLE
QCSLKVLEPEGSPSLCLLKMGEKGCTVTELSDFLQAMEHTEVLQLLSPPGIKITVNPESKAVLAGQFVKLCCRA
TGHPFVQYQWFKMNKEIPNGNTSELIFNAVHVKDAGFYVCRVNNNFTFEFSQWSQLDVC DIPESFQRSVDGVSES
KLQICVEPTSQKLMPGSTLVLCVAVGSPIPHYQWFKNELPLTHETKKLYMVPYVDLEHQGTYWCHVYNDRDSQD
SKKVEIIIGRTDEAVECTEDELNNLGHPDNKEQTTDQPLAKDKVALLIGNMNYREHPKLKAPLVDVYELTNLLRQ
LDFKVVSLDLTEYEMRNAVDEFLLLLDKGVYGLLYYAGHGYENFGNSFMVPVDAPNPYRSENCLCVQNILKLMQ
EKETGLNVFLDMCRKRNDYDDTIPILDALKVTANIVFGYATCQGAFAFEIQHSGLANGIFMKFLKDRILLEDKKI
TVLLDEVAEDMGKCHLTGKGQALEIRSSLSEKRALTDPIQGTEYSAESLVRNLQWAKAHELPEMCLKFD CGVQI
QLGFAAEFSNVMIIYTSIVYKPPEIIMCDAYVTDFPLDLDDIDPKDANKGTPEETGSYLVS KDLPKHCLYTRLSSL
QKLKEHLVFTVCLSYQYSGLEDTVEDKQEVNVGKPLIAKLDMHRGLGRKTCFQTC LMSGPYQSSAATSGGAGHY
HSLQDPFHGVYHSHPGNPSNVTPADSCHCSRTPDAFISSFAHHASCHFSRSNVPVETTDEIPFSFSDRLRISEK

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FIGURE 702

ATGAGGAGGGACGAGCGAGACGCCAAAGCCATGCGGTCCCTGCAGCCGCCGGATGGGGCCGGCTCGCCCCCGAG
AGTCTGAGGAACGGCTACGTGAAGAGCTGCGTGAGCCCCCTGCGGCAGGACCCTCCGCGCGGCTTCTTCTTCCAC
CTCTGCCGCTTCTGCAACGTGGAGCTGCGGCCGCCCGCCGGCTCTCCCCAGCAGCCGCGCGCTGCTCCCCCTTC
TGCCGGGCGCGCCTCTCGCTGGGCGACCTGGCTGCCTTTGTCTCGCCCTGCTGCTGGGAGCGGAACCCGAGAGC
TGGGCTGCCGGGGCCGCTGGCTGCGGACGCTGCTGAGCGTGTGTTGCGACAGCTTGAGCCCCCTCTTCAGCATC
GCCTGTGCCTTCTTCTTCCCTCACCTGCTTCCTCACCCGGACCAAGCGGGGACCCGGCCCGGGCCGGAGCTGCGGC
TCCTGGTGGCTGCTGGCGCTGCCCCGCTGCTGTTACCTGGGGGACTTCTTGGTGTGGCAGTGGTGGTCTTGGCCT
TGGGGGGATGGCGACGCAGGGTCCGCGGCCCGCACACGCCCCCGAGGCGGCAGCGGGCAGGTTGCTGCTGGTG
CTGAGCTGCGTAGGGCTGCTGCTGACGCTCGCGCACCCGCTGCGGCTCCGGCACTGCGTTCTGGTGTGCTCCTG
GCCAGCTTCGTCTGGTGGGTCTCCTTCACCAGCCTCGGGTGCCTGCCCTCCGCCCTCAGGCCGCTGCTCTCCGGC
CTGGTGGGGGGCGCTGGCTGCCTGCTGGCCCTGGGGTTGGATCACTTCTTTCAAATCAGGGAAGCGCCTCTTCAT
CCTCGACTGTCCAGTGCCGCCGAAGAAAAGTGCCTGTGATCCGACCCCGAGGAGGTCCAGCTGCGTGTCTGTTA
GGAGAACTGCAGCCAGTTACTATGGCAGTTGCAAATATTTCAGGAGACCGTCGTTGCCCTTGTATTTCCAGAGAA
CAGATGATTCTTTGGGATTGGGACTTAAACAATGGTATAAGCCTCATTATCAAAATTCTGGAGGTGGAATGGA
GTTGATCTTTCAGTGCTAAATGAGGCTCGCAATATGGTGTGAGATCTTCTGACTGATCCAAGCCTTCCACCACAA
GTCATTTCTCTCTACGGAGTATTAGTAGCTTAATGGGTGCTTTCTCAGGTTCTGTAGGCCAAAGATTAACTCT
CTCACACCATTCTCTGGATTTTACCCCTGTTCTGAAATAGAGGACCCAGCTGAGAAAGGGGATAGAAACTTAAC
AAGGGACTAAATAGGAATAGTTTGCCAACCTCCACAGCTGAGGAGAAGCTCAGGAACCTCAGGATTGCTACCTGTT
GAACAGTCTTCAAGGTGGGATCGTAATAATGGCAAAGGCCTCACCAAGAATTGGCATTTCAGTCAAGGATGC
TATCTAAATGGGCCCTTTTAATTCAAATCTACTGACTATCCCGAAGCAAAGGTCATCTTCTGTATCACTGACTCAC
CATGTAGGTCTCAGAAGAGCTGGTGTTTTGTCCAGTCTGAGTCCTGTGAATTCTTCCAACCATGGACCAGTGTCT
ACTGGCTCTCTAATAATCGATCACCCATAGAATTTCTGATACTGCTGATTTTCTTAATAAGCCAAGCGTTATC
TTGCAGAGATCTCTGGGCAATGCACCTAATACTCCAGATTTTATCAGCAACTTAGAAATTCTGATAGCAATCTG
TGTAACAGCTGTGGACATCAAATGCTGAAATATGTTTCAACATCTGAATCAGATGGTACAGATTGCTGCAGTGGA
AAATCAGGTGAAGAAGAAAACATTTTCTCGAAAAGATCATTCAAACCTTATGGAACTCAACAAGAAGAGGAAACA
GAGAAGAAAGACAGCAGAAAATTATTTAGGAAGGTGATAAGTGGCTAACAGAAGAGGCACAGAGTGAACAGCAA
ACAAATATTGAACAGGAAGTATCACTGGACCTGATTTTAGTAGAAGAGTATGACTCATTAATAGAAAAGATGAGC
AACTGGAATTTTCCAATTTTGAACCTGTAGAAAAGATGGGAGAGAAATCAGGAAGGATTCTCAGTCAGGTTATG
TATACCTTATTTCAAGACACTGGTTTATTGAAATATTTAAATTTCCCACTCAACAATTTATGAACTATTTTCGT
GCATTAGAAAATGGCTATCGAGACATTCCTTATCACAATCGTATACATGCCACAGATGTGCTACATGCAGTTTGG
TATCTGACAACACGGCCAGTTCTTGCTTACAGCAGATCCACAATGGTTGTGGAACAGGAAATGAAACAGATTCT
GATGGTAGAATTAACCATGGGCGAATTGCTTATATTTCTTGAAGAGCTGCTCTAATCCTGATGAGAGTTATGGC
TGCCTGTCTTCAAACATTCCTGCATTAGAATTGATGGCTCTATACGTGGCAGCTGCCATGCATGATTATGATCAC
CCAGGGAGGACAAATGCATTTCTAGTGGCTACAAATGCCCTCAGGCAGTTTTATACAATGACAGATCTGTTCTG
GAAATCATCATGCTGCGTCAGCTTGGAATCTATATCTTCTCGCCAGAATACAACCTTCTTCTCATCTTGAT
CATGTGGAATTCAGCGCTTTCGTTTTTTAGTCATTGAAGCAATCCTTGCTACGGATCTTAAAAAGCATTTTGAT
TTTTCTCGCAGAATTCAATGCCAAGGCAAATGATGTAAATAGTAATGGCATAGAATGGAGTAATGAAAATGATCGC
CTCTTGGTATGCCAGGTGTGCATCAAACCTGGCAGATATAAATGGCCAGCAAAGTTTCGAGACTTGCATTTGAAA
TGGACAGAAGGCATTGTCAATGAATTTTATGAGCAGGGAGATGAAGAAGCAAATCTTGGTCTGCCCATCAGTCCA
TTCATGGATCGTTCTTCTCCTCACTAGCAAACTCCAAGAATCTTTTATCACCCACATAGTGGGTCCCCTGTGT
AACTCCTATGATGCTGCTGGTTTGCTACCAGGTGAGTGGTTAGAAGCAGAAGAGGATAATGATACTGAAAGTGGT
GATGATGAAGACGGTGAAGAATTAGATACAGAAGATGAAGAAATGGAAAACAATCTAAATCCAAACCACCAAGA
AGGAAAAGCAGACGGCGAATATTTTGTGAGCTAATGCACCACCTCACTGAAAACCACAAGATATGGAAGGAAATC
GTAGAGGAAGAAGAAAATGTAAAGCTGATGGGAATAAACTGCAGGTGGAGAATTCCTCCTTACCTCAAGCAGAT
GAGATTCAGGTAATTGAAGAGGCAGATGAAGAGGAATAG

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FIGURE 703

MRRDERDAKAMRSLQPPDGAGSPPESLRNGYVKSCVSPLRQDPPRGFFFHLCRFCNVELRPPPPASPOQPRRCSPF
CRARLSLGDIAAFVLALLLGAEPESWAAGAAWLRLLSVCSHSLSPLESIACAFFFLTCLTRTKRGPGPGRSCG
SWWLLALPACCYLGDFLVWQWWSWPWGDGDAGSAAPHTPPEAAAGRLLVLSCVGLLLTLAHLRLRHCVLVLLL
ASFVWVVSFTSLGSLPSALRPLLGLVGGAGCLLALGLDHFFQIREAPLHPRLSSAAEEKVPVIRRRRSSCVSL
AASYGSCKIFRRPSLPCISREQMILWDWDLKQWYKPHYQNSGGGNGVDLSVLNEARNMVSDLLTDPSSLPPQ
CLRSISLMLGAFSGSCRPKINPLTPFPGFYPCSEIEDPAEKGDRKLNKGLNRNSLPTPQLRRSSGTSGLLPV
SRWDRNNGKRPHQEFGISSQGCYLNGPFNSNLLTIPKQRSSSVSLTHHVGLRRAGVLSSLSPVNSSNHGPVS
TGLTNRSPIEFDPDTADFLNKPSVILQRSIGNAPNTPDFYQQLRNSDSNLCNSCGHQMLKYVSTSESDGTDCCSG
EENIFSKESEFKLMETQEEETEKKDSRKLFOEGDKWLTEEAQSEQQTNIEQEVSLDLILVEEYDSLIEKMS
PIFELVEKMGEKSGRILSQVMYTLFQDTGLLEIFKIPTQQFMNYFRALENGYRDIPYHNRIHATDVLHAVW
TRPVPGLOQIHNGCGTGNETDSDGRINHGRIAYISSKSCSNPDESYGCLSSNIPALELMALYVAAAMHDYDH
INAFVLATNAPQAVLYNDRSVLENHHAASAWNLYLSRPEYNFLLHLDHVEFKRFRFLVIEAILATDLKKHFD
AEFNAKANDVNSNGIEWSNENDRLLVCQVCIKLADINGPAKVRDLHLKWTEGIVNEFYEQGDEEANLGLPISP
MORSSPQLAKLQESFITHIVGPLCNSYDAAGLLPGQWLEAEEDNDTESGDDDEGEELDEDEEMENNLNPKPPR
PKSRRRIFCQLMHHLTENHKEIVEEEEEKCKADGNKLQVENSLLPQADEIQVIEEAEDEE

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FIGURE 704

CCATTCTTCTCCCGGGAGCCCTCATCTATGCACATCTCCTCAAGCCTGCCCCCTGACACACAGAAGTTCCTTCGC
TTTGAGAGACTCACCGCACTGTGTTAAACCAGATCCTACGGCAGTCCACGACCCACCTTGCTGATGGGCCTTTT
GCTGTCTGGTAGACTACATTCGTGTCCTCGACTTTGATGTCAAGCGCAAATATTTCCGCCAAGAGCTGGAGCGT
TTAGATGAGGGGCTCCGGAAAGAAGACATGGCTGTGCATGTCTTCGTGACCATGTGTTTGAAGACTCCTATCGT
GAGCTGCATCGCAAATCCCCCGAAGAAATGAAGAATCGATTGTATATAGTATTTGAAGGAGAAGAAGGGCAGGAT
GCTGGCGGGGCTCCTGCGGGAGTGGTATATGATCATCTCTCGAGAGATGTTTAACCCTATGTATGCCTTGTTCCGT
ACCTCACCTGGTGATCGAGTCACCTACACCATCAATCCATCTTCCCACTGCAACCCCAACCACCTCAGCTACTTC
AAGTTTGTGCGACGCATTGTGGCCAAAGCTGTATATGACAACCGTCTTCTGGAGTGCTACTTTACTCGATCCTTT
TACAAACACATCTTGGGCAAGTCAGTCAGATATACAGATATGGAGAGTGAAGATTACCACTTCTACCAAGGTCTG
GTTTATCTGCTGGAATATGATGTCTCCACACTAGGCTATGACCTCACCTTCAGCACTGAGGTCCAAGAGTTTGA
GTTTGTGAAGTTTCGTGACCTCAAACCCAAATGGGGCCAAACATCTTGGTAACAGAGGAGAATAAGAAGGAGTATGTA
CACCTGGTATGCCAGATGAGAATGACAGGAGCCATCCGCAAGCAGTTGGCGGCTTTCTTAGAAGGCTTCTATGAG
ATCATTCCAAAGCGCCTCATTTCATCTTCACTGAGCAGGAGTTAGAGCTGCTTATATCAGGACTGCCCACCATT
GACATCGATGATCTGAAATCCAACACTGAATACCACAAGTACCAGTCCAACCTCTATTTCAGATCCAGTGGTTCTGG
AGAGCATTGCGTTCTTTTCGATCAAGCTGACCGTGCCAAGTTCCTCCAGTTTGTACGGGTACTTCCAAGGTACCC
CTGCAAGGCTTTGCTGCCCTCGAAGGCATGAATGGCATTGAGAAGTTTCAGATCCATCGAGATGACAGGTCCACA
GATCGCTGCCTTCAGCTCACACATGTTTTAATCAGCTGGATCTGCCTGCCTATGAGAGCTTTGAGAAGCTCCGC
CACATGCTACTGTTGGCTATCCAGGAGTGCTCTGAAGGCTTTGGGCTGGCCTAATAAGGCCCTGCCCAACTCCGT
GGGGTTTTTTTTTACCATTGTTGGACCTGGGGAGGGGGGAGTTAAAAAAGAACCAGAAAGAAATTGTCAAAAACC
AATAAATGAAATCCACCAACTCACCGTGTGTGTCCCAGCTGCCCCATCTTCCCCAGCGCATACCTGTTCTCTTC
TCATTCTCTCCCCGCCGCTGTTTCTCACCTTCTCTCCCCTTTCCATGCCGTCCATGATCCCCACCCCATGTGT
TTTAAAAGGCAGTAGCCTTTGCAGGGACCTGTCTGTCCCAACTGTTTGAACAGTGTGCTCCTCAGATTCTGTGT
TCAGAAGGATTTGCTGCATTGAGACTTGAAACCTTTGGATAGGGGAAAAAATTATATATATATATATTTTTTTGT
TCTGTTTGCATTTCTTAATTTGTGCTTGGAAATGTGTTGATGTGCACAGCTAATGATTCAATGCGAGACAAGATTG
GCGTCTGTGTTGTGGAGGTTTCAAATAAAGAGCACTCTTCATAACTCAAAAAAAAAA

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FIGURE 705

MIISREMFNPMYALFRTSPGDRVTYITINPSSHCPNHLSTYFKFVGRIVAKAVYDNRLLCEYFTRSFYKHILGKSV
RYTDMESDYHFFYQGLVYLLENDVSTLGYDLTFSTEVQEFVCEVRDLKPNGANILVTEENKKEYVHLVCQMRMT
GAIRKQLAAFLEGFYEIIPKRLISIFTEQELELLISGLPTIDIDDLKSNTYHXYQSNSIQIQWFWRALRSFDQA
DRAKFLQFVTGTSKVPLQGFAALEGMNGIQKFQIHRDDRSTDRLP SAHTCFNQLDLPAYESFEKLRHMLLLAIQE
CSEGFGLA

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FIGURE 706A

TCTAGATGGGGGTCTTGGGCCCCAGGGTGTGCAGCCACTGACTTGGGGACTGCTGGTGGGGTAGGGATGAGGGAG
GGAGGGGCATTGTGATGTACAGGGCTGCTCTGTGAGATCAAGGGTCTCTTAAGGGTGGGAGCTGGGGCAGGGACT
ACGAGAGCAGCCAGATGGGCTGAAAGTGGAACTCAAGGGGTTTCTGGCACCTACCTACCTGCTTCCCCTGGGGG
GTGGGGAGTTGGCCAGAGTCTTAAGATTGGGGCAGGGTGGAGAGGTGGGCTCTTCTGCTTCCCACTCATCTTA
TAGCTTTCTTTCCCCAGATCCGAATTCGAGATCCAAACCAAGGAGGAAAGGATATCACAGAGGAGATCATGTCTG
GGGCCCCGCACTGCCTCCACACCCACCCCTCCCCAGACGGGAGGCAGTCTGGAGCCTCAAGCTAATGGGGAGACGC
CCCAGGTTGCTGTCTATTGTCCGGCCAGATGACCGGTACAGGGAGCAATCATTGCTGACCGGCCAGGGCTGCCTG
GCCCAGAGCATAGCCCTTCAGAATCCCAGCCTTCGTGCGCTTCTCCGACCCCATCACCATCCCCAGTCTTGGAAC
CGGGGTCTGAGCCTAATCTCGCAGTCTCTCTATTCTGCGGACACTATGACAACTATACAAATGTCTGTAGAAG
AATCAACCCCCATCTCCCGTGAAGTGGGGAGCCATATCGCCTCTCTCCAGAACCCACTCCTCTCGCCGAACCCA
TACTGGAAGTAGAAGTGACACTTAGCAAACCGGTTCCAGAATCTGAGTTTTCTTCCAGTCTCTCCAGGCTCCCA
CCCCTTTGGCATCTCACACAGTGGAATTCATGAGCCTAATGGCATGGTCCCATCTGAAGATCTGGAACAGAGG
TGGAGTCAAGCCAGAGCTTGCTCTCCCCAGCTTGCCCTCCGAATCCCCTGTGCCCATGTCTCCAAGTCCCC
AACCTGAGGAAGTCTCAACGGAGCCCCCTCGCCACCAGCTGTGGACTTAAGCCAGTCAAGTGAAGCAGAGGAGC
AGGCCAAGGAGGTGACAGCATCAGTGGCGCCCCCACCATCCCCCTCTGCTACTCCAGCTACGGCTCCTTCAGCTA
CTTCCCCAGCTCAGGAGGAGGAAATGGAAGAAGAAGAAGATGAGGAAGAAGGAGAAGTAGGGGAAGCAGGGGAAG
GTGAGAGTGAGAAGAGAGGAGAGGAACTGCTCCCCCAGAGAGTACCCCTATTCCAGCCAAGTGTCTCAGAATT
TGGAGGCAGCAGCAGCCACTCAAGTGGCAGTATCTGTGCCAAAGAGGAGACGGAAAATTAAGGAGCTAAATAAGA
AGGAGGCTGTTGGAGACCTTCTGGATGCCTTCAAGGAGGCGAACCCGGCAGTACCAGAGGTGGAATCAGCCTC
CTGCAGGCAGCAATCCAGGCCCAGAGTCTGAGGGCAGTGGTGTGCCCCACGTCCTGAGGAAGCAGATGAGACCT
GGGACTCAAAGGAAGACAAAATTCACAATGCTGAGAACATCCAGCCCCGGGGAACAGAAGTATGAATATAAGTCAG
ATCAGTGGAAGCCTCCAAACCTAGAGGAGAAAAACGTTACGACCGTGAGTTCCTGCTTGGTTTTAGTTTCATCT
TTTGCCAGATGCAGAAGCCAGAGGGATTGCCACATATCAGTGACGTGGTGTGGACAAGGCCAATAAAACACCAC
TGCGGCCACTGGATCCCCTAGACTACAAGGCATAAAATTGTGGCCCAGACTTCACTCCATCCTTTGCCAACCTTG
GCCGGAACCCCTTAGCACCCGTGGGCCCCCAAGGGGTGGGCCAGGTGGGGAGCTCGCCCGTGGCGCGCAGGCTG
GCCTGGGACCCCGCGCTCTCAGCAGGGACCCCCGAAAAGAACCGCAAGATCATTGCCACAGTGTTAATGACCG
AAGATATAAACTGAACAAAGCAGAGAAAGCCTGGAAACCCAGCAGCAAGCGGACAGCGGCTGATAAGGATCGAG
GGGAAGAAGATGCTGATGGCAGCAAAACCCAGGACCTATTCCGCAGGTGGCGCTCCATCCTGAATAAACTGACAC
CCCAGATGTTCCAGCAGCTGATGAAGCAAGTGACGCAGCTGGCCATCGACACCGAGGACGCCTCAAAGGGGTGAT
TGACCTCATTTTTTGAGAAGGCCATTTAGAGCCCAACTTCTCTGTGGCCTATCCAACATGTGCCGCTGCCTCATG
GCGCTGAAAGTGCCACTACGGAAAGCCAACAGTGACTGTGAAGTTCGAAAGCTGTTGTTGAATCGATGTCAGA
AGGAGTTTGAGAAAGACAAAGATGATGATGAGTTTTTGAAGAAGCAAAAAGAGATGGATGAAGCTGCTACGG
CAGAGGAACGAGAACGCCTGAAGGAGGAGCTGGAAGAGGCTCGGGACATAGCCCGGCGCTGCTCTTTAGGGAATA
TCAAGTTTATTGGAGAGTTGTTCAAACCTGAAGATGTTAACAGAGGCAATAATGCATGACTGTGTGGTCAAACCTGC
TTAAGAACCATGATGAAGAGTCCCTTGAGTGCCTTTGTCTGCTCACCACCATTTGGCAAAGACCTGGACTTTG
AAAAAGCCAAGCCCCGAATGGATCAGTATTTCAACCAGATGGAAAAAATCATTAAAGAAAAGAAGACGTCATCCC
GCATCCGCTTTATGCTGCAGGACGTGCTGGATCTGCGAGGGAGCAATTGGGTGCCACGCCGAGGGGATCAGGGTC
CAAGACCATTGACCAGATCCATAAGGAGGCTGAGATGGAAGACATCGAGAGCACATCAAAGTGCAGCAGCTCATG
CAAGGGCAGTGACAAGCGTCGGGGCGGTCTCCAGGCCCTCCCATCAGCCGTGGACTTCCCCCTTGTGGATGATGG
TGGCTGACACAGTTCCCATCAGCAAAGGTAGCCGCCCATTTGACACCTCAGACTCACCAAGATCACCAAGCCTG
GCTCCATCGATTCTAACAACCAGCTCTTTGCACCTGGAGGGCGACTGAGCTGGGGCAAGGGCAGCAGCGGAGGGT
CAGGAGCCCAGCCCTCAGACGCAGCATCAGAAGCTGCTCGCCAGCTACTAGTACTTTGATTGCTTCTCAGCCC
TTCAACAAGCGGTACCCACAGAAAGCACAGATAATAGACGTGTGGTGCAGAGGAGTAGCTTGAGCCGAGAACGAG
GCGAGAAAGCTGGAGACCGAGGAGACCGCTAGAGCGAGTGAACGGGGAGGGGACCGTGGGGACCGGCTTGATCG
TGTCGCGGACACCTGCTACCAAGCGGACGTTAGCAAGGAAGTGGAGGAGCGGAGTAGAGAACGGCCCTCCCAGC
CTGAGGGGCTGCGCAAGGCAGCTAGCCTACGGAGGATCGGGACCGTGGGCGGGATGCCGTGAAGCGAGAAGCTG
CCCTACCCCCAGTGAGCCCCCTGAAGGCGGCTCTCTCTGAGGAGGAGTTAGAGAAGAAATCCAAGGCTATCATTG
AGGAATATCTCCATCTCAATGACATGAAAGAGGCAGTCCAGTGCCTGCAGGAGCTGGCCTCACCCCTCCTTGCTCT

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FIGURE 706B

TCATCTTTGTACGGCATGGTGTGCGAGTCTACGCTGGAGCGCAGTGCCATTGCTCGTGAGCATATGGGGCAGCTGC
TGCACCAGCTGCTCTGTGCTGGGCATCTGTCTACTGCTCAGTACTACCAAGGGTTGTATGAAATCTTGGAATTGG
CTGAGGACATGGAAATTGACATCCCCACGTGTGGCTCTACCTAGCGGAAGTGGTAACACCCATTCTGCAGGAAG
GTGGGGTGCCCATGGGGGAGCTGTTTCAGGGAGATTACAAAGCCTCTGAGACCGTTGGGCAAAGCTGCTTCCCTGT
TGCTGGAGATCCTGGGCCTCCTGTGCAAAAGCATGGGTCCATAAAAAGGTGGGGACGCTGTGGCGAGAAGCCGGGC
TTAGCTGGAAGGAATTTCTACCTGAAGGCCAGGACATTGGTGCAATTCGTCGCTGAACAGAAGGTGGAGTATACCC
TGGGAGAGGAGTCGGAAGCCCCCTGGCCAGAGGGCACTCCCCCTCCGAGGAGCTGAACAGGCAGCTGGAGAAGCTGC
TGAAGGAGGGCAGCAGTAACCAGCGGGTGTTCGACTGGATAGAGGCCAACCTGAGTGAGCAGATAGTATCCAACA
CGTTAGTTCGAGCCCTCATGACGGCTGTCTGCTATTCTGCAATTATTTTTGAGACTCCCCCTCCGAGTGGACGTTG
CAGTGCTGAAAGGCGACATAGTGCTGCAGAAATACCTGTGTGACGAAGCAGAAGGAGCTACAGGCGCTCTACGCC
TCCAGGCCCTTGTAGTGACCTTAGAACAGCCTCCCAACCTGCTGCGGATGTTCTTTGACGCACTGTATGACGAGG
ACGTGGTGAAGGAGGATGCCTTCTACAGTTGGGAGAGTAGCAAGGACCCCGCTGAGCAGCAGGGCAAGGGTGTGG
CCCTTAAATCTGTACAGCCTTCTTCAAGTGGCTCCGTGAAGTCAGAGGAGGAGTCTGACCACAACCTGAGGGCTG
GTGGGGCCGGGACCTGGAGCCCCATGGACACACAGATGGCTCCGGCTAGCCGCCTGGACTGCAGGGGGGCGGCA
GCAGCGGCGGTGGCAGTGGGTGCCTGTAGTGTGATGTGTCTGAACTAATAAAGTGGCTGAAGAGGCAGGATGGCT
TGGGGCTGCCTGGGCCCCCTCCAGGATGCCGCCAGGTGTCCCTCTCCTCCCCTGGGGCACAGAGATATATTATA
TATAAAGTCTTGAAATTTTGAATTTGGTGTGTCTTGGGGTGGGGAGGGGCACCAACGCCTGCCCCTGGGGTCC
TTTTTTTTATTTTCTGAAATCACTCTCGGACTGCCGTCTCGCTGCTGGGCATATGCCCCAGCCCCGTACCAC
CCCTGCTGTTGCCTGGGCAGGGGAAGGGGGGCACGGTGCCTGTAATTATTAAACATGAATTCAATT

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FIGURE 707

MSGARTASTPTPPQTGGSLPEQANGETPQVAVIVRPDDRSQGAI IADRPGLPGPEHSPSESQPSSTPSPSPV
LEPGSEPNLAVLSIPGDTMTTIQMSVEESTPISRETGEPYRLSPEPTPLAEP ILEVEVTL SKVPSESEFSSSPLO
APTPLASHTVEIHEPNGMVPSSEDLPEVESSPELAPPPACPSESPVPIAPTAQPEELLNGAPSPPAVDLSPVSEP
EEQAKEVTASVAPPTIP SATPATAPSATSPAQEEEMEEEEDEEEGEVGEAGEGESEKRGEELLPPESTPI PANLS
QNLEAAAATQVAVSVPKRRRKIKELNKKEAVGDLDDAFKEANPAVPEVENQPPAGSNPGPESESGVPPRPEEAD
ETWDSKEDIHNAENIQPGGEQKYEYKSDQWKPPNLEEKRYDREFLLGFQFIFCQMOKPEGLPHISDVVLDKANK
TPLRPLDPTRLQG INCGPDFTPSFANLGRITTLSTRGPPRGGPGGELARGAQAGLGPRRSQQGPRKEPRKIIATVL
MTEDIKLNKAEKAWKPSSKRTAADKDRGEEDADGSKTQDLFRRWRSILNKLTQPMFQQLMKQVTLAIDTEDASK
GSLTSFLRRPFQSP TSLWPIQHVP LPHGAESAHYGKPTVTVNFRKLLLNRCQKEFEKDKDDDEVFEKKQKEMDEA
ATAEERERLKEELEEAR DIARRCSLGNIKFIGELFKLKM LTEAIMHDCVVKLLKNHDEESLECLCRLTTIGKDL
DFEKAKPRMDQYFNQMEKIIKEKKTSSRIRFMLQDVLDLRGSNWVPRRGDQGPRLTRSIRRLRWKTSRAHQSA
AHARAVTSVGAVLQALPSAVDFPLWMMVADTVPISKGSRPIDTSRLTKITKPGSIDSNQLFAPGGRLSWGKSS
GGSGAQPSDAASEAARPATSTLIRFSALQQAVPTTESTDNRRVVQRSSLSRERGEKAGDRGDRLERVNGEGTVGTG
LIVSRTPATKRTFSKEVEERSRERPSQPEGLRKAASLTEDRDRGRDAVKREAALPPVSP LKAALSEELEKSKA
IIEEYLHLNDMKEAVQCQELASPSLLFIFVRHGVESTLERSAIAREHMGQLLHQLLCAGHLSTAQYYQGLYEIL
ELAEDMEIDIPHVWLYLAELVTPILQEGGVPMGELFREITKPLRPLGKAASLLEILGLLCKSMGPKKVGTLWRE
AGLSWKEFLPEGQDIGAFVAEQKVEYTLGEESEAPGQORALPSEELNRQLEKLLKEGSSNQRFVDWIEANLSEQIV
SNTLVRALMTAVCYSAIIFETPLRVDVAVLKGDIVLQKYLCDEAGATGALRLQALVVTL EQPNLLRMFFDALY
DEDVVKEDAFYSWESSKDPAEQQGKGVALKSVTAFFKWLREVRGGV

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FIGURE 708

AAAAAGAAATCAAGAATGCAATTTTATTTACAATAGTCACGCCGGAATACCTAGAAATAAATTTAACTGAGGAT
GTAAAGACCTCTACAAGGAGAGTTCAATGCGTAGCGGGAGCGGAGAGCTGACCCAGAGAGCCCTGGGCAGCCC
CACCTCCGCCGCCGCCCTAGTTACCATCACACCCCGGAGAGCCCGCAGCTGCCGCAGCCGGCCCCAGTCACCATC
ACCGCAACCATGAGCAGCGAGGCCGAGACCCAGCAGCCGCCGCCGCCGCCGCCGCCGCCGCCCTCAGCGCC
ACACCAAGCCCGGCACTACCGGAGCGGCGCAGGGAGCGGTGGCCCCGGGCGGCTCACATCGGCGGCGCTGGC
CGACAAGAAGGTCATCGCAACGAAGTTTTGGGAACAGTAAAATGGTTCAATGTAAGGAACGGATATGGT
TCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAAGAATAACCCAGGAAG
TACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAAAGGGTGCGGAGGCAGCA
TTACAGGTCTTGGTGGTGTTCAGTTCAAGGCAGTAAATATGCAGCAGACCGTAACCATATAGACGCTAT
GTCTGTAGGGGTCTCCACGCAATTACCAGCAAATACCAGAATAGTGAGAGTGGGGAAAAGAACGAGGGA
AGAGTGCTCCCGAAGCCAGGCCCAACAACGCCGCCCTACGCAGGCGAAGGTTCCACCTTACTACATGCG
ACCTATGGGCGTGCACCACAGTATTCCAACCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAG
TGCAGGAGAACAAGGTAGACCAGTGAGGCAGATATGTATCGGGGATATAGACCACGATTCCGCAGGGGCCCTC
CGCCAAAAGACAGCCTAGAGAGGACGGCAATGAAGAAGATAAAGAAAATCAAGGAGATGAGACCCAAGGTCAG
CAGCCACCTCAAGCTCGGTACCGCCGCAACTTCAATTACCGACGCAGACGCCAGAAAACCTAAACCACAAGAT
GGCAAAGAGACAAAAGCAGCCGATCCACCAGCTGAGAATTCGTCCGCTCCCGAGGCTGAGCAGGGCGGGGCTGAG
TAAATGCCGGCTTACCATCTCTACCATCATCCGTTTTAGTCATCCAACAAGAAGAAATATGAAATTCAGCAATA
AGAAATGAACAAAAGATTGGAGCTGAAGACCTAAAGTGCTTGCTTTTTGCCGTTGACCAGATAAATAGAACTAT
CTGCATTATCTATGCAGCATGGGGTTTTTATTATGTTTTACCTAAAGACGTCTTTTTTGGTAATAACAAACCGT
GTTTTTTAAAAAAGCCTGGTTTTTCTCAATACGCCTTTAAAGGAATTCC

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FIGURE 709

MSSEAETQQPPAAPPAAPALSAADTKPGTTGAAQGAVARAAHIGGAGAGDKKVIATKVLGTVKWFNVRNGYGF IN
RNDTKEDVVFVHQTAIKKNNPRKYLRSVGDGETVEFDVVEGEKGAEAAANVTGPGGVPVQGSKYAADRNHYRRYP RR
RGPPRNYQQNYQNSESGEKNESSESAPPEARPNNAGPTQAKVPTLLHAETYGRRPQYSNPPVQGEVMEGADNQGAG
EQGRPVRQICIGDIDHDSAGALLAKRQPREDEGNEEDKENQDETQGGQPPQARYRRNFNYRRRRPENPKPDGKE
TKAADPPAENSSAPEAEQGGAE

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FIGURE 710

GGTAAGAGAAGACTGGAAGCATGTCGGAGTTTTGGTTAATTTCTGCCCTGGCGATAAGGAAAATTTGCAAGCTC
TGGAGAGGATGAATACTGTAACCTCCAAGTCCAACCTGTCTTATAATACCAAATTCGCTATTCCTGACTTCAAGG
TGGGGACCTTGGATTCCCTGGTTGGCCTCTCTGATGAGTTGGGGAACTCGACACCTTTGCTGAAAGCCTCATAA
GGAGAATGGCTCAGAGCGTGGTGGAGTCATGGAGGACTCAAAGGGGAAGGTCCAGGAGCACCTCCTGGCAAACG
GAGTTGACTTAACATCCTTTGTGACCCACTTTGAATGGGACATGGCCAAATATCCTGTCAAGCAGCCGCTCGTGA
GTGTGGTGGACACAATAGCCAAGCAACTGGCGCAGATCGAGATGGACCTGAAGTCCCGAACGGCCGCCTACGACA
CTCTGAAGACAAACCTGGAGAACCTGGAAAAGAAATCCATGGGGAACCTCTTCACCCGGACACTGAGTGATATTG
TGAGCAAAGAGGACTTCGTGCTGGATTCTGAATATCTCGTCACACTTCTGGTCATCGTCCCCAAACCAAACCTACT
CACAATGGCAAAAACCTACGAATCTCTCTCAGACATGGTGGTCCCTCGATCAACCAAACCTCATTACTGAGGACA
AGGAAGGGGGCCTTTTCACTGTGACTCTGTTTCGAAAAGTGATTGAAGATTTCAAACCAAGGCCAAAGAAAACA
AGTTCACTGTTTCGTGAATTTTACTATGATGAGAAGGAAATTGAAAGGGAAAGGGAGGAGATGGCCAGATTGCTGT
CTGATAAGAAGCAACAGTATGGCCCCCTGCTGCGCTGGCTCAAGGTGAACCTTCAGTGAAGCCTTCATTGCCCTGGA
TCCACATCAAGGCCCTGAGAGTGTGTTGTGGAGTCCGTGCTCAGGTATGGACTACCACTGAACCTCCAGGCAGTGC
TCCTGCAGCCGCATAAGAAGTCATCCACCAAGCGTTTAAAGAGAGGTTCTAAACTCTGTCTTCCGACATCTGGATG
AAGTAGCCGCTACAAAGTATACTGGATGCATCTGTGGAGATCCCGGGACTGCAACTCAATAACCAAGACTATTTTC
CTTATGTCTACTTCCATATTGACCTTAGTCTTCTTGACTAGAAAGGCCAGCTGGCACCTCTGTCTCATGTTCGTG
CAGATTATTACAGACACCTCTTTCCTTTAGCCAGAGAATGGTTCAAATGTCTTACAGAACTAAGATCTTTTTTCAG
AGAAATTGCTCACAAAAGTTAGTGACAGTTGTATTTATTTTTTAAAGTTACAATAAAATGCTCTCAAGTCCTTTG
AATGTTCCAACAAATTCAAACCTTCATTTTCTGAATGTTTTACATAAATGCGAACTACCTGTTTCGCATTGGTAAC
CTGCTGCTGTATTTTCATGTCTTAACGGCTATTTTGAGGTTTATTAACAACATAGAAAGCCTTGAAGTGTATAACC
AGCTAGATTCCTTAATAATTAGTCACTAGAGACAGCCCAAAGACAAATATTGGGCAGGAAATCAGTTCTCACTGA
GCCCCGTTTCCATGTAAATCTCTGTTGTGGTGGGCATAGGTGGCACCATCTAAAGAAAAGAGGTCTTGTTTTTT
GTTTAAAAAAGTTTGTGGGGAGGAAAGACATCTGTGTATCACTTCAAATATTGATTTACTGCTAAACATCACTC
TGAATTTATGATGTGGATACTAACTTCATACATTTATCGGCATTGTCCAAAATATTTTATTCTTTAATGGAAAAA
GCCATTAATATTCAAATGAAGGGATCACATTAACCAAGGATACATAAGAAACAGCCTCCAAGAACATTCAAG
CAGCAGTCAGAGAGAAAAATGTTTCGACAGCCAAAGTTTTCTTCAAATATTATGTGACAGAATACGACTCAATTC
ACCGGCTACAACAATTATAGAAATTTTCAATGTTTTCTTGAGATGCAAAAGTTCAGTGTGAGTGTTCAAA
TGACCAATCAAGTACTACTTCTTGGTTAAAGGCCACTGGTAGAGTCATCTGAGTGTAGAGAATGTCCCTTCACT
GCTGGAAAAATCCACTGGCTCCCAAGAAAAGAAAATGGTCTGAAGCCTCTGTTGTGGCTCTCACAACCTCATCTTT
CCCTAAGTCATCAAGCTCCACATCACTGAGGTCAATGTCATCTCCACGGGAAGCTGGGAGACGACAGAAAGCCA
CTGTTAGATCTGCAGAAGGGGACACCCTGGAAGGTCAACATCTCATTTTTATGGAAGAGCGACTCTCTGGAGCTAC
TCCTGCTACAATCCAGGTCTCCTCAGTCTGACTCCTACCCTGACCTTCGTACCTATGATTATACGGATGGAAAA
GCTCAGAACTCAGGTGAAACATTTCAACATCACATCACTCACCATTTTAACTGGAAGCCACTTGAACGTGTCC
TTTTGAGGAGGGTGGGACACAACAGTACAGAAATAAGTGCTAATTTCAAAGCTATCATTTTTCTATTTTTCTAAGA
TAAAGTAAATGAATTCAGGTTAAATGTTCACTTTAAGGTAATAATCAGGAAAGCAACCTTACTACTGAAATGTA
TCTTGGCTGTCAAGAGTATCAAATGCCATGCAGCACTTAACTTGTGATAAGGAAGATGAAGGGTCTTCAGAGAA
GAACCTCTTAAAGGGCCACGGGTGCACCAGGGCTGAGGTCTGATGGGAAGGACTTGACTCCAGGTGCAGAGATG
CACAGGCTCAAGAGAGTAAACCAGGACTGCTGCCCGCACAGCTTCCCTCCCGGGCACTCACCTCGCCATCCCTGC
CGTCCCAAGGCTCTCTCTCAACGATGGTAGGGAAAGCCCCGCCTCTACAGGTGCCGTGGAGCCACGCCAAAAG
AGAGCTCCCTTAGGGAAAAATGACCAAAACACACACACATTTACAATGGACTGCTGGTGCAGAAGAATAAACA
ACTTTAAAAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 711

MSEFWLISAPGDKENLQALERMNTVTSKSNLSYNTKFAIPDFKVGTLDSLVLGSLDELGKLDTFAESLIRMAQSV
VEVMEDSKGKVQEHLLANGVDLTSFVTHFEWDMAKYPVKQPLVSVVDLIAKQLAQIEMDLKSRTAAYDTLKTNLE
NLEKKSMGNLFTRTLSDIVSKEDFVLDSEYLVTLVIVPKPNYSQWQKTYESLSDMVVPRSTKLITEDKEGGFT
VTIFRKVIEDFKTKAKENKFTVREFYYDEKEIEREREEMARLLSDKKQYGPLLRLKVNFEAFIAWIIKALR
VFVESVLRVGLPVNFQAVLLQPHKKSSTKRLREVLNSVFRHLDEVAATSILDASVEIPGLQLNNQDYFPYVFHI
DLSLLD

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FIGURE 712

CTGCCACTGCCACCTCGCGGATCAGGAGCCAGCGTTGTTCCGCCGACGCCTCGCTGCCGGTGGGAGGAAGCGAGA
GGGAAGCCGCTTGGGCTCTTGTGCGCCGCTGCTCGCCACCGCCTGGAAGAGCCGAGCCCCGCCAGTCGGTCGCT
TGCCACCGCTCGTAGCCGTTACCCGCGGGCCGCCACAGCCGCCGGCGGGAGAGGCGCGGCCATGCTTCTGGAG
CCGATTCAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAGAACCCTCCCAATCGGTTAATTGTTGATG
AAGCCATCAATGAGGACAACAGTGTGGTGTCTTGTCCAGCCCAAGATGGATGAATTGCAGTTGTTCCGAGGTG
ACACAGTGTGCTGAAAGGAAAGAAGAGACGAGAAGCTGTTTGCATCGTCCTTTCTGATGATACTTGTCTGATG
AGAAGATTTCGGATGAATAGAGTTGTTTCGGAATAACCTTCGTGTACGCCTAGGGGATGTCATCAGCATCCAGCCAT
GCCCTGATGTGAAGTACGGCAAACGTATCCATGTGCTGCCATTGATGACACAGTGAAGGCATTACTGGTAATC
TCTTCGAGGTATACCTTAAGCCGTACTTCTGGAAGCGTATCGACCCATCCGGAAGGAGACATTTTTCTTGTC
GTGGTGGGATGCGTGCTGTGGAGTTCAAAGTGGTGGAAACAGATCCTAGCCCTTATTGCATTGTTGCTCCAGACA
CAGTGATCCACTGCGAAGGGGAGCCTATCAAACGAGAGGATGAGGAAGAGTCCTTGAATGAAGTAGGGTATGATG
ACATTGGTGGCTGCAGGAAGCAGCTAGCTCAGATCAAAGAGATGGTGGAACTGCCCCTGAGACATCCTGCCCTCT
TTAAGGCAATTGGTGTGAAGCCTCCTAGAGGAATCCTGCTTTACGGACCTCCTGGAACAGGAAAGACCCTGATTG
CTCGAGCTGTAGCAAATGAGACTGGAGCCTTCTTCTTCTTGATCAATGGTCCTGAGATCATGAGCAAATTGGCTG
GTGAGTCTGAGAGCAACCTTCGTAAAGCCTTTGAGGAGGCTGAGAAGAATGCTCCTGCCATCATCTTCATTGATG
AGCTAGATGCCATCGCTCCCAAAGAGAGAAAACCTCATGGCGAGGTGGAGCGGCGCATTGTATCACAGTTGTTGA
CCCTCATGGATGGCCTAAAGCAGAGGGCACATGTGATTGTTATGGCAGCAACCAACAGACCCAACAGCATTGACC
CAGCTCTACGGCGATTGGTTCGCTTTGACAGGGAGGTAGATATTGGAATTCCTGATGCTACAGGACGCTTAGAGA
TTCTTCAGATCCATACCAAGAACATGAAGCTGGCAGATGATGTGGACCTGGAACAGGTAGCCAATGAGACTCACG
GGCATGTGGGTGCTGACTTAGCAGCCCTGTGCTCAGAGGCTGCTCTGCAAGCCATCCGCAAGAAGATGGATCTCA
TTGACCTAGAGGATGAGACCATTGATGCCGAGGTGATGAACCTCTAGCAGTTACTATGGATGACTTCCGGTGGG
CCTTGAGCCAGAGTAACCCATCAGCACTGCGGGAACCGTGGTAGAGGTGCCACAGGTAACCTGGGAAGACATCG
GGGGCCTAGAGGATGTCAAACGTGAGCTACAGGAGCTGGTCCAGTATCCTGTGGAGCACCCAGACAAATTCCTGA
AGTTTGGCATGACACCTTCCAAGGGAGTTCTGTTCTATGGACCTCCTGGCTGTGGGAAAACCTTTGTTGGCCAAAG
CCATTGCTAATGAATGCCAGGCCAAGTTTCTCATCTCCATCAAGGGTCTGAGCTGCTCACCATGTGGTTTTGGGGAGT
CTGAGGCCAATGTGAGAGAAATCTTTGACAAGGCCCCGCAAGCTGCCCCCTGTGTGCTATTCTTTGATGAGCTGG
ATTCGATTGCCAAGGCTCGTGGAGGTAAACATTGGAGATGGTGGTGGGGCTGCTGACCGAGTCATCAACCAGATCC
TGACAGAAATGGATGGCATGTCCACAAAAAATGTGTTTCATCATTGGCGCTACCAACCGGCCTGACATCATTG
ATCCTGCCATCCTCAGACCTGGCCGTCTTGATCAGCTCATCTACATCCCACTTCTGATGAGAAGTCCCGTGTG
CCATCCTCAAGGCTAACCTGCGCAAGTCCCCAGTTGCCAAGGATGTGGACTTGGAGTTCCTGGCTAAAATGACTA
ATGGCTTCTCTGGAGCTGACCTGACAGAGATTTGCCAGCGTGCTTGCAAGCTGGCCATCCGTGAATCCATCGAGA
GTGAGATTAGGCGAGAACGAGAGAGGCAGACAAACCCATCAGCCATGGAGGTAGAAGAGGATGATCCAGTGCCTG
AGATCCGTCGAGATCACTTTGAAGAAGCCATGCGCTTTGCGCGCCGTTCTGTGAGTACAATGACATTCCGAAGT
ATGAGATGTTTTGCCAGACCCCTCAGCAGAGTCGGGGCTTTGGCAGCTTCAGATTCCCTTCAGGGAACAGGGTG
GAGCTGGCCCCAGTCAGGGCAGTGGAGGCGGCACAGGTGGCAGTGATACACAGAAGACAATGATGATGACCTGT
ATGGCTAAGTGGTGGTGGCCAGCGTGAGCTGAGCTGGCCTGCCTGGACCTTGTTCCCTGGGGGTGGGGCGCTTGC
CCAGGAGAGGGACAGGGGTGCGCCACAGCCTGCTCCATTCTCCAGTCTGAACAGTTCAGCTACAGTCTGACTC
TGGACAGGGGGTTTCTGTTGCAAAAATACAAAACAAAAGCGATAAAATAAAAGCGATTTTTCATTGGTAGCGGA
GAGTGAATTACCAACAGGGAATTGGGCCTTGGGCCTATGCCATTCTGTTGTAGTTTGGGGCAGTGCAGGGGACC
TGTGTGGGGTGTGAACCAAGGCACTACTGCCACCTGCCACAGTAAAGCATCTGCACTTGACTCAATGCTGCCCGA
GCCCTCCCTTCCCCCTATCCAACCTGGGTAGGTGGGTAGGGGCCACAGTTGCTGGATGTTTATATAGAGAGTAGG
TTGATTTATTTTACATGCTTTTGAAGTTAATGTTGGAAAACATAACAGCAGTTTCTAAACCAAAAAATGACAT
GTTGTAAAGGACAATAAACGTTGGGTCAAATGGAAAAA

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FIGURE 713

MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTVLLKGKKRREAVCIVLSDD
TCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKPYFLEAYRPIRKGD
IFLVRGGMRAVEFKVVETDPSPYCIVAPDTVIHCEGEPIKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLR
PPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESESNLKAFEEAEKNAPAI
DELDAIAPKREKTHGEVERRIVSQLLTLMDGLKQRAHVIVMAATNRPNSIDPALRRFGRFDREVDIGIPDAT
ILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEAALQAIRKKMDLIDLEDETIDAEVMNSLAVTMD
ALSQSNPSALRETVVEVPQVTWEDIGGLEDVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGPFGCGKT
AKAIAIANECQANFISIKGPELLTMWFGSEANVREIFDKARQAAPCVLFFDELDSIAKARGGNIGDGGGAADRV
LTEM DGMSTKKNVFIIGATNRPDIIIDPAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKDVDLEFL
NGFSGADLTEICQRACKLAIRESIESEIRRERERQTNPSAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDN
YEMFAQTLQQSRGFGSFRFPSGNQGGAGPSQGSGGGTGGSVYTEDNDDDLYG

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FIGURE 714

GGATCGAGGGGACTCTGACCACAGCCTGTGGCTGGGAAGGGAGACAGAGGCGGCGGGCTCAGGGGAAACGAGG
CTGCAGTGGTGGTAGTAGGAAGATGTCGGGCGAGGACGAGCAACAGGAGCAAACCTATCGCTGAGGACCTGGTCGT
GACCAAGTATAAGATGGGGGGCGACATCGCCAACAGGGTACTTCGGTCCTTGGTGGAAGCATCTAGCTCAGGTGT
GTCGGTACTCAGCCTGTGTGAGAAAGGTGATGCCATGATTATGGAAGAAACAGGGAAAATCTTCAAGAAAGAAAA
GGAAATGAAGAAAGGTATTGCTTTTCCCACCAGCATTTCGGTAAATAACTGTGTATGTCACTTCTCCCTTTGAA
GAGCGACCAGGATTATATTCTCAAGGAAGGTGACTTGGTAAAAATTGACCTTGGGGTCCATGTGGATGGCTTCAT
CGCTAATGTAGCTCACACTTTTGTGGTTGATGTAGCTCAGGGGACCCAAGTAACAGGGAGGAAAGCAGATGTTAT
TAAGGCAGCTCACCTTTGTGCTGAAGCTGCCCTACGCCTGGTCAAACCTGGAAATCAGAACACACAAGTGACAGA
AGCCTGGAACAAAGTTGCCCCTCATTTAACTGCACGCCAATAGAAGGTATGCTGTACACCAGTTGAAGCAGCA
TGTCATCGATGGAGAAAAAACCATTATCCAGAATCCCACAGACCAGCAGAAGAAGGACCATGAAAAAGCTGAATT
TGAGGTACATGAAGTATATGCTGTGGATGTTCTCGTCAGCTCAGGAGAGGGCAAGGCCAAGGATGCAGGACAGAG
AACCCTATTTACAAACGAGACCCCTCTAAACAGTATGGACTGAAAATGAAAACCTCACGTGCCTTCTTCAGTGA
GGTGGAAAGGCGTTTGTATGCCATGCCGTTTACTTTAAGAGCATTGGAAGATGAGAAGAAGGCTCGGATGGGTGT
GGTGGAGTGCGCCAAACATGAAGTGTGCAACCATTAAATGTTCTCTATGAGAAGGAGGGTGAATTTGTTGCCCA
GTTTAAATTTACAGTTCTGCTCATGCCCAATGGCCCCATGCGGATAACCAGTGGTCCCTTCGAGCCTGACCTCTA
CAAGTCTGAGATGGAGGTCCAGGATGCAGAGCTAAAGGCCCTCCTCCAGAGTTCTGCAAGTCGAAAAACCCAGAA
AAAGAAAAAAAAGAAGGCCTCCAAGACTGCAGAGAATCCCACAGTGGGGAAACATTAGAAGAAAATGAAGCTGG
GGACTGAGGTGCGTCCCCTCTCCCCAGCTTGCTGCTCCTGCCTCATCCCCTTCCCACCAAACCCAGACTCTGTG
AAGTGCAGTTCTTCTCCACCTAGGACCGCCAGCAGAGCGGGGGATCTCCCTGCCCCCAGGCTTCCCCAACC
CACTCCCTTCCAACAACAACCAGCTCCAAGTACTCTGGTCTTGGGAGGTGAGGCTTCCCAACCACGGAAGACTA
CTTTAAACGAAAAAAGAAATTGAATAATAAAATCAGGAGTCAAAATTCATCGTCTTCAAGGCCCTCTTTCTAG
CCTTTTCTACTACTCTCTGCTTGGTCAAGGTTTGTGCCCCACTACAGAACAGGGCTAAATTAGCCACCACCACTG
AAAACTCAGCCGAATTTTTTTTATACCACTCTGACGTCAGCATTTTTT

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FIGURE 715

MSGEDEQQEQTIAEDLVVTKYKMGGDIANRVLRLSVEASSSGVSVLSLCEKGDAMIMEETGKIFKKEKEMKKGIA
FPISISVNNCVCHFSPKSDQDYILKEGDLVKIDLGVDGFIANVAHTFVVDVAQGTQVTGRKADVIKAAHLCA
EAALRLVKPGNQNTQVTEAWNKAHSFNCTPIEGMLSHQLKQHVIDGEKTI IQNPTDQKKDHEKAEFEVHEVYA
VDVLVSSGEGKAKDAGQRTTIYKRDP SKQYGLKMKTSRAFFSEVERRFDAMPFTLRAFEDEKKARMGVVECAKHE
LLQPFNVLYEKEGEFVAQFKFTVLLMPNGPMRITSGPFEPDLYKSEMEVQDAELKALLOSSASRKTQKKKKKKAS
KTAENPTSGETLEENEAGD

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FIGURE 716

GTTCTTGCCTGGTGTGCGGTGGTTAGTTTCTGCGACTTGTGTTGGGACTGCTGATAGGAAGATGCTTTCAGGAAAT
GCTAAAATTGGGCACCCTGCCCCAACTTCAAAGCCACAGCTGTTATGCCAGATGGTCAGTTTAAAGATATCAGC
CTGTCTGACTACAAAGGAAAATATGTTGTGTTCTTCTTTTACCCTCTTGACTTCACCTTTGTGTGCCCCACGGAG
ATCATTGCTTTTCAGTGATAGGGCAGAAGAATTTAAGAACTCAACTGCCAAGTGATTGGTGCTTCTGTGGATTCT
CACTTCTGTCACTAGCATGGGTCAATACACCTAAGAAACAAGGAGGACTGGGACCCATGAACATTCCTTTGGTA
TCAGACCCGAAGCGCACCATTTGCTCAGGATTATGGGGTCTTAAAGGCTGATGAAGGCATCTCGTTCAGGGGCCTT
TTTATCATTGATGATAAGGGTATTCTTCGGCAGATCACTGTAAATGACCTCCCTGTTGGCCGCTCTGTGGATGAG
ACTTTGAGACTAGTTCAGGCCTTCCAGTTCAGTACAAACATGGGGAAGTGTGCCCAGCTGGCTGGAAACCTGGC
AGTGATAACCATCAAGCCTGATGTCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGAGCGCTGGGCTGTTTT
AGTGCCAGGCTGCGGTGGGCAGCCATGAGAACAAAACCTCTTCTGTATTTTTTTTTTCCATTAGTAAAACACAAG
ACTTCAGATTAGCCGAATTGTGGTGTCTTACAAGGCAGGCCTTTCCTACAGGGGGTGGAGAGACCAGCCTTTCT
TCCTTTGGTAGGAATGGCCTGAGTTGGCGTTGTGGGCAGGCTACTGGTTGTATGATGTATTAGTAGAGCAACCC
ATTAATCTTTTGTAGTTTGTATTAACTTGAAGTGAAG

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FIGURE 717

MSSGNAKIGH PAPNFKATAVMPDGQFKDISLSDYKGKYVVFYPLDFTFVCPTETIAFSDRAEEFKKLNCQVIG
ASVDSHFCHLAWVNTPKKQGGLGPMNIPLVSDPKRTIAQDYGVKADEGISFRGLFIIDDKGILRQITVNDLPVG
RSVDETLRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVQKSKEYFSKQK

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FIGURE 718A

CGGGTGGCGGCTCGGGACGGAGGACGCGCTAGTGTCTTCTGTGTGGCAGTTCAGAAATGATGGATCAAGCTAGAT
CAGCATTCTCTAACTTGTTTTGGTGGAGAACCATTGTCTATATACCCGGTTCAGCCTGGCTCGGCAAGTAGATGGCG
ATAACAGTCATGTGGAGATGAACTTGCTGTAGATGAAGAAGAAAATGCTGACAATAACACAAAGGCCAATGTCA
CAAAACCAAAAAGGTGTAGTGAAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTTCTTGATTGGATTTA
TGATTGGCTACTTGGGCTATTGTAAAGGGGTAGAACCAAAACTGAGTGTGAGAGACTGGCAGGAACCGAGTCTC
CAGTGAGGGAGGAGCCAGGAGAGGACTTCCCTGCAGCACGTCGCTTATATTGGGATGACCTGAAGAGAAAGTTGT
CGGAGAACTGGACAGCACAGACTTCACCGGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCCTCGTGAGG
CTGGATCTCAAAAAGATGAAAATCTTGCCTGTATGTTGAAAATCAATTTTCGTGAATTTAACTCAGCAAAGTCT
GGCGTGATCAACATTTTGTTAAGATTCAAGTCAAAGACAGCGCTCAAACTCGGTGATCATAGTTGATAAGAACG
GTAGACTTGTTTACCTGGTGGAGAATCCTGGGGGTATGTGGCGTATAGTAAGGCTGCAACAGTTACTGGTAAAC
TGGTCCATGCTAATTTTGGTACTAAAAAGATTTTGAGGATTTATACACTCCTGTGAATGGATCTATAGTGATTG
TCAGAGCAGGGAAAATCACCTTTGCAGAAAAGGTTGCAAATGCTGAAAGCTTAAATGCAATTGGTGTGTTGATAT
ACATGGACCAGACTAAATTTCCCATTTGTTAACGCAGAACTTTTATTCTTTGGACATGCTCATCTGGGGACAGGTG
ACCCTTACACACCTGGATTCCCTTCCTTCAATCACACTCAGTTTCCACCATCTCGGTATCAGGATTGCCTAATA
TACCTGTCCAGACAATCTCCAGAGCTGCTGCAGAAAAGCTGTTTGGGAATATGGAAGGAGACTGTCCCTCTGACT
GGAAAACAGACTCTACATGTAGGATGGTAACCTCAGAAAGCAAGAATGTGAAGCTCACTGTGAGCAATGTGCTGA
AAGAGATAAAAAATTCTTAACATCTTTGGAGTTATTAAGGCTTTGTAGAACCAGATCACTATGTTGTAGTTGGGG
CCCAGAGAGATGCATGGGGCCCTGGAGCTGCAAAATCCGGTGTAGGCACAGCTCTCCTATTGAACTTGCCCAGA
TGTTCTCAGATATGGTCTTAAAAGATGGGTTTTCAGCCAGCAGAAGCATTATCTTTGCCAGTTGGAGTGTGGAG
ACTTTGGATCGGTTGGTGCCACTGAATGGCTAGAGGGATACCTTTTCGTCCCTGCATTTAAAGGCTTTCACTTATA
TTAATCTGGATAAAGCGTTTCTTGGTACCAGCAACTTCAAGGTTTCTGCCAGCCCACTGTTGTATACGCTTATTG
AGAAAACAATGCAAAATGTGAAGCATCCGTTTACTGGGCAATTTCTATATCAGGACAGCAACTGGGCCAGCAAAG
TTGAGAACTCACTTTAGACAATGCTGCTTTCCCTTTCTTGCATATTCTGGAATCCCAGCAGTTTCTTTCTGTT
TTTTCGAGGACACAGATTATCCTTATTTGGGTACCAACCATGGACACCTATAAGGAACCTGATTGAGAGGATTCTG
AGTTGAACAAAGTGGCACGAGCAGCTGCAGAGGTGCTGGTCAGTTTCGTGATTAACTAACCCTATGATGTTGAAT
TGAACCTGGACTATGAGAGGTACAACAGCCAACCTGCTTTTCAATTTGTGAGGGATCTGAACCAATACAGAGCAGACA
TAAAGGAAATGGGCCTGAGTTTACAGTGGCTGTATTCTGCTCGTGGAGACTTCTTCGTGCTACTTCCAGACTAA
CAACAGATTTTCGGGAATGCTGAGAAAACAGACAGATTTGTCTATGAAGAACTCAATGATCGTGTCTATGAGAGTGG
AGTATCACTTCTCTCCCTACGTATCTCCAAAAGAGTCTCCTTTCCGACATGTCTTCTGGGGCTCCGGCTCTC
ACACGCTGCCAGCTTTACTGGAGAACCTTGAACTGCGTAAACAAAATAACGGTGCTTTTAAATGAAACGCTGTTCA
GAAACCAGTTGGCTCTAGCTACTTGGACTATTCAAGGAGCTGCAAATGCCCTCTCTGGTGACGTTTGGGACATTG
ACATGAGTTTTTAAATGTGATACCCATAGCTTCCATGAGAACAGCAGGGTAGTCTGGTTTTCTAGACTTGTGCTGA
TCGTGCTAAATTTTCACTAGGGCTACAAAACCTGATGTTAAATTTCCATCCCATCATCTTGGTACTACTAGATGT
CTTTAGGCAGCAGCTTTTAAATACAGGGTAGATAACCTGTACTTCAAGTTAAAGTGAATAACCACTTAAAAAATGT
CCATGATGGAATATTTCCCTATCTCTAGAATTTTAAAGTGCTTTGTAAATGGGAACCTGCCTCTTTCTGTTGTTGTT
AATGAAAATGTGAGAAACAGTTATGTGAATGATCTCTCTGAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTAA
GTGGTCGCTTACTTTGAGTGATCCTCCAACCTCATTGTATGCTAAATAGGAGATACCAGGTTGAAAGACCTTCTC
CAAATGAGATCTAAGCCTTTCCATAAGGAATGTAGCTGGTTTTCTCATTCTGAAAGAAACAGTTAACTTTCAGA
AGAGATGGGCTTGTTTTCTTGCCAATGAGGTCTGAAATGGAGGTCTTCTGCTGGATAAAATGAGGTTCAACTGT
TGATTGCAGGAATAAGGCCTTAATATGTTAACCTCAGTGTCAATTTATGAAAAGAGGGGACCAGAAGCCAAAGACT
TAGTATATTTTTCTTTTCTCTGTCCCTTCCCCCATAAGCCTCCATTTAGTTCTTTGTTATTTTTGTTTCTTCCAA
AGCACATTGAAAGAGAACCAAGTTTTCAGGTGTTTAGTTGCAGACTCAGTTTGTGAGACTTTAAAGAATAATATGCT
GCCAAATTTTGGCCAAAGTGTTAATCTTAGGGGAGAGCTTTCTGTCTTTTGGCACTGAGATATTTATTGTTTAT
TTATCAGTGACAGAGTTCACTATAAATGGTGTTTTTTTTAATAAGATATAATTATCGGAAGCAGTGCCTTCCATAA
TTATGACAGTTATACTGTCTGTTTTTTTTTAAATAAAGCAGCATCTGCTAATAAAACCCAACAGATACTGGAAGT
TTTGCATTTATGGTCAACACTTAAGGGTTTTAGAAAACAGCCGTGAGCCAAATGTAATTGAATAAAGTTGAAGCT
AAGATTTAGAGATGAATTAATTTAATTAGGGGTGCTAAGAAGCGAGCACTGACCAGATAAGAATGCTGGTTTT
CCTAAATGCAGTGAATTGTGACCAAGTTATAAATCAATGTCACTTAAAGGCTGTGGTAGTACTCCTGCAAAATTT

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FIGURE 718B

1A TAGCTCAGTTTATCCAAGGTGTAACCTAATTCCCATTTTGCAAAATTTCCAGTACCTTTGTCACAATCCTAA
CACATTATCGGGAGCAGTGTCTTCCATAATGTATAAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCG
GAGACAGTGATCTCCATATGTTACACTAAGGGTGTAAGTAATTATCGGGAACAGTGTTTCCCATAAATTTCTTCA
TGCAATGACATCTTCAAAGCTTGAAGATCGTTAGTATCTAACATGTATCCCAACTCCTATAATTCCTATCTTTT
TAGTTGCAGAAACATTTTGTGGTCATTAGCATTGGGTGGGTAAATTCAACCACTGTAAAATGAAATTAC
AAATTTGAAATTTAGCTTGGGTTTTTGTACCTTTATGGTTTCTCCAGGTCCTCTACTTAATGAGATAGTA
ACATTTATAATGTTTGCTATTGACAAGTCATTTTAACCTTTATCACATTATTTGCATGTTACCTCCTATAAA
CTTAGTGCGGACAAGTTTTAATCCAGAATTGACCTTTTGACTTAAAGCAGGGGGACTTTGTATAGAAGGTTTGGG
TGTGGGGAAGGAGAGTCCCCTGAAGGTCTGACACGTCTGCCTACCCATTTCGTGGTGATCAATTAAATGTAGG
AATAAGTTTGAAGCTCCGTGAGTGAACCATCATTATAAACGTGATGATCAGCTGTTTGTATAGGGCAGTT
ACGGCCTCCTAGGGAAAAGTTCATAGGGTCTCTTCAGGTTCTTAGTGTCACTTACCTAGATTTACAGCCTC
GAATGTGTCACTACTCACAGTCTCTTTAATCTTCAGTTTTATCTTTAATCTCCTCTTTTATCTTGGACTGA
ITAGCGTAGCTAAGTGAAAAGGTCATAGCTGAGATTCCTGGTTCGGGTGTTACGCACACGTACTTAAATGAA
CATGTGGCATGTTTCATCGTATAACACAATATGAATACAGGGCATGCATTTTGCAGCAGTGAGTCTCTTCAGAA
AACCTTTTCTACAGTTAGGGTTGAGTTACTTCCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCCTGAAT
GAAATATCAGACTAGTGACAAGCTCCTGGTCTTGAGATGTCTTCTCGTTAAGGAGATGGGCCTTTTGGAGGTAA
GGATAAAATGAATGAGTTCTGTATGATTCACTATTCTAGAACTTGCATGACCTTTACTGTGTAGCTCTTTGAA
TGTTCTTGAAATTTTAGACTTTCTTTGTAAACAAATAATATGTCCTTATCATTGTATAAAAGCTGTTATGTGCAA
CAGTGTGGAGATTCCTTGTCTGATTTAATAAAATACTTAAACACTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 719

MMDQARSASFNLFGGEPLSYTRFSLARQVDGDN SHVEMKLAVDEEENADNNTKANVT KPKRCSGSICYGTIAVIV
FFLIGFMIGYLG YCKGV EPKTECERLAGTESPVREEPGEDFPAARRLYWDDLKRKLSEKLDSTDFTGTIKLLNEN
SYVPREAGSQKDENLALYVENQFREFKLSKVWRDQH FVKIQVKDSAQNSV IIVDKNGRLVYLVENPGGYVAYS KA
ATVTGKLVHANFGTKKDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFPIVNAELSFFGH
AHLGTGDPYTPGFPSFNHTQFPFSRSSGLPNIPVQTISRAAAEKLFGNMEGDCPSDWKTDSTCRMVTSESKNVKL
TVSNVLKEIKILNIFGVIKGFVEPDHYVVVGAQRDAWGPGAAGSGVGTALLKLAQMFSDMVLKDGFPQRSIIF
ASWSAGDFGSVGATEWLEGYLSSLHLKAFTYINLDKAVLGTSNFKVSASPLLYTLIEKTMQNVKHPVTGQFLYQD
SNWASKVEKLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIK
LTHDVELNLDYERYNSQLLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDFGNAEKTD RFVMKKLN
DRVMRVEYHFLSPYVSPKESPF RHVFWGSGSHTLPALLENLKL RKQNNGAFNETLFRNQLALATWTIQGAANALS
GDVWDIDNEF

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FIGURE 720

GTCAC TCGTATAAAAACCTATGCTTTGAAGGTTCTCGTGTGTCTCGGCCTGCAGGTCTCGCTCAGAGCTGTGTCC
CTGAACATCCACCCTGCTGGGGTGGCTTGACGCACTTCTGTGCAAATCTGTTTCGCTCGCAACCCTACCTACCTCT
CTCCCGAACCGGAGAAAACCTTCGGCGGGGTCCTTCCGGGTTTTGTGTGCGAATCTGCGGCGGCGACCCGGCGCCG
CGTCACGCGGTGGTGAATGTGCGGCAGTACGCGCGCCGCGTCTTTACGCGGCGATTTTCATCATGCTCCGAGCCG
GCGGCGCGCGCCGCTTCCGTCGCCACCCTCTCTGGACAGCCCAGGGCCGAGGCTCATGCCCTCTCCGCGTCCAG
TGCTGCTTAGAGGTGCTCGCGCCGCTCTGCTGCTGCTGCTGCCGCCCGGCTCTTAGCCCGACCCTCGCTCCTCC
TCCGCCGCTCCCTCAGCGCGGCTCTCTGCCGCCGATCTCTTGCCCGCCGCGCCTCCCGGAGCAGCATGGACG
GCGCGGGGGCTGAGGAGGTGCTGGCACCTCTGAGGCTAGCAGTGCGCCAGCAGGGAGATCTTGTGCGAAAACTCA
AAGAAGATAAAGCACCCCAAGTAGACGTAGACAAAGCAGTGGCTGAGCTCAAAGCCCCGAAGAGGGTTCTGGAAG
CAAAGGAGCTGGCGTTACAGCCCAAAGATGATATTGTAGACCGAGCAAAAATGGAAGATACCCTGAAGAGGAGGT
TTTTCTATGATCAAGCTTTTGCTATTTATGGAGGTGTTAGTGGTCTGTATGACTTTGGGCCAGTTGGCTGTGCTT
TGAAGAACAATATTATTACAGACCTGGAGGCAGCACTTTATCCAAGAGGAACAGATCCTGGAGATCGATTGCACCA
TGCTCACCCCTGAGCCAGTTTTAAAGACCTCTGGCCATGTAGACAAATTTGCTGACTTCATGGTGAAAGACGTAA
AAAATGGAGAATGTTTTCGTGCTGACCATCTATTAAGGCTCATTTACAGAAATTGATGTCTGATAAGAAGTGTT
CTGTGCGAAAAGAAATCAGAAATGGAAAGTGTTTTGGCCAGCTTGATAACTATGGACAGCAAGAAGTTGCGGATC
TTTTTGTGAAGTATAATGTAAGTCTCCCATTTACTGGAATGATCTATCCCTCCAGTGCTTTTAAGTTAATGT
TCAAGACTTTTATTGGGCTGGAGGAAACATGCCTGGGTACTTGAGACCAGAAAGTGCACAGGGGATTTTCTTGA
ATTTCAAACGACTTTTGGAGTTCAACCAAGGAAAGTTGCCTTTTGCTGCTGCCAGATTGGAAATCTTTTAGAA
ATGAGATCTCCCTCGATCTGGACTGATCAGAGTCAGAGAATTCACAATGGCAGAAATTGAGCACTTTGTAGATC
CCAGTGAGAAAGACCACCCCAAGTTCCAGAATGTGGCAGACCTTCACCTTTATTTGTATTACAGAAAAGCCCAGG
TCAGCGGACAGTCCGCTCGGAAAATGCGCCTGGGAGATGCTGTTGAACAGGGTGTGATTAATAACACAGTATTAG
GCTATTTTATTGGCCGATCTACCTCTACCTCACGAAGGTTGGAATATCTCCAGATAAACTCCGCTTCCGGCAGC
ACATGGAGAATGAGATGGCCATTATGCCTGTGACTGTTGGGATGCAGAATCCAAAACATCTACGTTTGGATTG
AGATTGTTGGATGTGCTGATCGTTTCTGTTATGACCTCTCTGTGATGCACGAGCCACCAAAGTCCCACTTGTAG
CTGAGAAACCTCTGAAAGAACCCAAAACAGTCAATGTTGTTGAGTTTGAACCCAGTAAGGGAGCAATTGGTAAGG
CATATAAGAAGGATGCAAACTGGTGATGGAGTATCTTGCCATTTGTGATGAGTGCTACATTACAGAAATGGAGA
TGCTGCTGAATGAGAAAGGGGAATTCACAATTGAACTGAAGGGGAAAACATTTAGTTAACAAAAGACATGATCA
ATGTGAAGAGATTCCAGAAAACACTATATGTGGAAGAAGTTGTTCCGAATGTAATTGAACCTTCTTCCGGCTGG
GTAGGATCATGTATACGGTATTTGAACATACATTCCATGTACGAGAAGGAGATGAACAGAGAACATTCTTCAGTT
TCCCTGCTGTAGTTGCTCCATTCAAATGTTCCGTCTTCCACTGAGCCAAAACCAGGAGTTTATGCCATTTGTCA
AGGAATTATCGGAAGCCCTGACCAGGCATGGAGTATCTCACAAAGTAGACGATTCTCTGGGTCAATCGGAAGGC
GCTATGCCAGGACTGATGAGATTGGCGTGGCTTTTGGTGTACCATTGACTTTGACACAGTGAACAAGACCCCCC
ACACTGCAACTCTGAGGGACCGTGACTCAATGCGGCAGATAAGAGCAGAGATCTCTGAGCTGCCAGCATAGTCC
AAGACCTAGCCAATGGCAACATCACATGGGCTGATGTGGAGGCCAGGTATCCTCTGTTTGAAGGGCAAGAGACTG
GTAAAAAGAGACAATCGAGGAATGAGGACAATTTGACAACCTTTTGACCACTTGCGCTAATAAAAAAAAAAAAAA
CTACTCTTATGTCCACTTTACAAAAGAAAACAGCATTGTGATTACTCCAGGGACCGTATTTTATCTTCAGTGGC
TGCCTGATTTTACCCCCACAATTAAAGTTGAAGGAATCCTGA

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FIGURE 721

MDGAGAEVLA PLRLAVRQQGDLVRKLKEDKAPQVDVDKAVAE LKARKRVLEAKELALQP KDDIVDRAKMEDTLK
RRFFYDQAF AIYGGVSGLYDFGPVGCALKNNIIQTWRQHFIQEEQILEIDCTMLTPEPVLKTS GHVDKFADFMVK
DVKNGECFRADHLLKAHLQKLMSDKKCSVEKKSEMESVLAQLDNYGQQELADLFVNYNVKSPITGNDLSPPVSFN
LMFKTFIGPGGNMPGYLRPETAQGIFLNFKRLLEFNQGKLPFAAAQIGNSFRNEISPRSGLIRVREFTMAEIEHF
VDPSEKDH PKFQNVADLHLYLYSAKAQVSGQSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTKVGISPDKLRF
RQHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPKTVNVVQFEP SKGAI
GKAYKKDAKL VMEYLAICDECYITEMEMLLNEKGFTIETEGKTFQLTKDMINVKRFQKTLYVEEVV PNVIEPSF
GLGRIMYTVFEHTFHVREGDEQRTFFSFPVAVVAPFKCSVLPLSQNQEFMPFVKELSEALTRHGVSHKVDDSSGSI
GRRYARTDEIGVAFGVTIDFDTVNKTPHTATLDRDRDSMRQIRAEISELPSIVQDLANGNITWADVEARYPLFEGQ
ETGKKETIEE

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FIGURE 722

GTCCATGGGGACCCTCGCCTTCGATGAATATGGGCGCCCTTTCCTCATCATCAAGGATCAGGACCGCAAGTCCCG
TCTTATGGGACTTGAGGCCCTCAAGTCTCATATAATGGCAGCAAAGGCTGTAGCAAATACAATGAGAACATCACT
TGGACCAAATGGGCTTGATAAGATGATGGTGGATAAGGATGGGGATGTGACTGTAACATAATGATGGGGCCACCAT
CTTAAGCATGATGGATGTTGATCATCAGATTGCCAAGCTGATGGTGGAACTGTCCAAGTCTCAGGATGATGAAAT
TGGAGATGGAACACAGGAGTGGTTGTCTGGCTGGTGCCTTGTTAGAAGAAGCGGAGCAATTGCTAGACCGAGG
CATTACCCAATCAGAATAGCCGATGGCTATGAGCAGGCTGCTCGCGTTGCTATTGAACACCTGGACAAGATCAG
CGATAGCGTCCTTGTTGACATAAAGGACACCGAACCCCTGATTAGACAGCAAAAACACGCTGGGCTCCAAAGT
GGTCAACAGTTGTACCCGACAGATGGCTGAGATTGCTGTGAATGCCGTCCTCACTGTAGCAGATATGGAGCGGAG
AGACGTTGACTTTGAGCTTATCAAAGTAGAAGGCCAAAGTGGGCGGCAGGCTGGAGGACACTAAACTGATTAAGGG
CGTGATTGTGGACAAGGATTTTCAGTCACCCACAGATGCCAAAAAAGTGGGAAGATGCGAAGATTGCAATTCTCAC
ATGTCCATTTGAACCACCCAAACCAAAAAACAAGCATAAGCTGGATGTGACCTCTGTGCAAGATTATAAAGCCCT
TCAGAAATACGAAAAGGAGAAATTTGAAGAGATGATTCAACAAATTAAAGAGACTGGTGCTAACCTAGCAATTTG
TCAGTGGGGCTTTGATGATGAAGCAAATCACTTACTTCTTCAGAACAACCTGCCTGCGGTTGCTGAGGAGG
ACCTGAAATTGAGCTGATTGCCATCGCAACAGGAGGGCGGATCGTCCCCAGGTTCTCAGAGCTCACAGCCGAGAA
GCTGGGCTTTGCTGGTCTTGACAGGAGATCTCATTGTTGGGACAACATAAGGATAAAATGCTGGTCATCGAGCAGTG
TAAGAACTCCAGAGCTGTAACCATTTTTATTAGAGGAGGAAATAAGATGATCATTGAGGAGGCGAAACGATCCCT
TCACGATGCTTTGTGTGTCATCCGGAACCTCATCCGCGATAATCGTGTGGTGTATGGAGGAGGGGCTGCTGAGAT
ATCCTGTGCCCTGGCAGTTAGCCAAGAGGCGGATAAGTGCCCCACCTTAGAACAGTATGCCATGAGAGCGTTTGC
CGACGCACTGGAGGTCATCCCCATGGCCCTCTCTGAAAACAGTGGCATGAATCCCATCCAGACTATGACCGAAGT
CCGAGCCAGACAGGTGAAGGAGATGAACCCTGCTCTTGGCATCGACTGTTGCACAAGGGGACAAATGATATGAA
GCAACAGCATGTCATAGAAACCTTGATTGGCAAAAAGCAACAGATATCTCTTGCAACACAAATGGTTAGAATGAT
TTTGAAGATTGATGACATTCGTAAGCCTGGAGAATCTGAAGAATGAAGACATTGAGAAAATATGTAGCAAGATC
CACTTCTGTGATTAAGTAAATGGATGTCTCGTGATGCGTCTACAGTTATTTATTGTTACATCCTTTCCAGACAC
TGTAGATGCTATAATAAAAAATAGCTGTTTGGTAACCATAGTTTCACTTGTTCAAAGCTGTGTAATCGTGGGGTA
CTATCTCAACTGCTTTTGTATTTCATTGTATTAAAAGAATCTGTTTAAACAACCTTTATCTTCTCTCGGGTTTAA
GAAACGTTTATTGTAAACAGTAATTAAATGCTGCCTTAATTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 723

SMGTLAFDEYGRPFLIIKDQDRKSRLMGLEALKSHIMAAKAVANTMRTSLGPNGLDKMMVDKDGDTVTVNDGATI
LSMMDVDHQIAKLMVELSKSQDDEIGDGTTGVVVLGALLEEAEQLLDRIHPRIADGYEQARVAIEHLDKIS
DSVLVDIKDTEPLIQTAKTTLGSKVVNSCHROMAEIAVNAVLTVADMERRDVSFELIKVEGKVGGRLDTKLIK
VIVDKDFSHQPMPKKVEDAKIAILTCPFEPKPKTKHKLDVTSVEDYKALQYEKEKFEEMIQQIKETGANLAIC
QWGFDDDEANHLLQNNLPAVRWVGPEIELIAIATGGRIVPRFSELTAEKLGFAGLVQEISFGTTDKMLVIEQC
KNSRAVTIFIRGGNKMIIEEAKRSLHDALCVIRNLIRDNRVVYGGGAAEISCALAVSQEADKCPTLEQYAMRAFA
DALEVIPMALENSGMNPIQTMTEVRARQVKEMNPALGIDCLHKGTNDMKQQHVIETLIGKKQQISLATQMVRMI
LKIDDIRKPGEESE

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FIGURE 724

CGTTGAAGACATTGTCGGGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCG
TCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTTGATCCTACTA
TGAGCAAGAAGAAAAAGAAGAAGAAGACCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCC
AGCCTTCAGAAACAAAAGAAGTGGAGCCAGAGCCAACTGAGGACAAGGATTTGGAAGCTGATGAAGAGGACACTA
-AAAAGATGCTTCTGATGATCTAGATGACTTGAACTTCTTTAATCAAAGAAAAAGAAGAAAAAACTAAAA
A TTTGATATTGATGAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTG
AGAGGATGACCTTGACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGAATGTTAAGTTCCCAGATGAGG
ATGAAATACTAGAGAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAGATGATGGTATCTCATTCAAGTAATC
-TAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCA
-GGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCGGAG
-AACCAAGAAAACCTCTTTTGTCAACTTTACAGATATCTGTAACTATTACATCGTCAGCCCCAACATCTCC
-ATTTTTTGTGGCTGAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGAT
-AACAGAAACAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACTTGTCACACATGCCGATCAC
-GACACAATCCTGCAGAAGGACATACGACTCTATTTCTACAGTGCGAACTTGTCATTCTAGATGTTCTGTTG
-CAGTATCAAAACCGGCTTCCAGGCTGTACGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTTATTTGCTA
ATCACTGATTTTGCAAAGCTTGTTGTGGAGATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCGTTGTAT
TAAAAACAAGATAAAAAAGCTGCCAAGATTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTC
AAGCTGTTGACATACTCATTGCCTACTTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTT
AAAATCGTTCATAGACTTCTGTAAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCTTTCA

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FIGURE 725

MSGDEMIFDPTMSKKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEADEEDTRKKDASDDLDDLNF
FNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQEPTPEDDLDIMLGNNKKKKKKNVKFPDEDEILEKDEALEDED
NKKDDGISFSNQTGPAWAGSERDYTYEELNRFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTKKTSFVNFTDI
CKLLHRQPKHLLAFLLAELGTSGSIDGNNQLVIKGRFQQQIENVLRRYIKEYVTCHTCRSPDTILQKDIRLYFL
QCETCHSRCVASIKTGFQAVTGKRAQLRAKAN

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FIGURE 726

AATTCGGGGGCCGTGGAGTTTGTGACATACGAGGTGACACCCCTCGAGTCACTTCCCTTCAACTCCAGCTGGAGC
GCCTGCTTGGCTTTGGGTTTCGTTCTGCAGCCTTCGCCCCGCTCCTAGCCTCAGGGCCGGACTCCAGCGCAGAGCC
CAGCCCAGCGCAGCCTGCCAGCAGCCACCCAGCCGCCCAGCCGCCAGCCCCGCAGAAACCCGGCCAGAGCTTC
CTAGCAGCCCCGAGCCATGAACACCGAAATGTATCAGACCCCCATGGAGGTGGCGGTCTACCAGCTGCACAATTTT
TCCATCTCCTTCTTCTCTCTGCTTGGAGGGGATGTGGTTTCCGTTAAGCTGGACAACAGTGCCTCCGGAGCC
AGCGTGGTGGCCATAGACAACAAGATCGAACAGGCCATGGATCTGGTGAAGAATCATCTGATGTATGCTGTGAGA
GAGGAGGTGGAGATCCTGAAGGAGCAGATCCGAGAGCTGGTGGAGAAGAACTCCCAGCTAGAGCGTGAGAACACC
CTGTTGAAGACCCTGGCAAGCCCAGAGCAGCTGGAGAAGTTCCAGTCCCTGTCTGAGCCCTGAAGAGCCAGCTCCC
GAATCCCCACAAGTGCCCCGAGGCCCTGGTGGTTCTGCGGTGTAAAGTGGCTCTGTCTCAGGGTGGGCAGAGCCA
CTAACTTGTTTTACCTAGTTCTTTCCAGTTTGTTTTTGGCTCCCCAAGCATCATCTCACGAGGAGAACTTTACA
CCTAGCACAGCTGGTGCCAAGAGATGTCCTAAGGACATGGCCACCTGGGTCCACTCCAGCGACAGACCCCTGACA
AGAGCAGGTCTCTGGAGGCTGAGTTGCATGGGGCCTAGTAACACCAAGCCAGTGAGCCTCTAATGCTACTGCGCC
CTGGGGGCTCCCAGGGCCTGGGCAACTTAGCTGCAACTGGCAAAGGAGAAGGGTAGTTTGAGGTGTGACACCAGT
TTGCTCCAGAAAGTTTAAAGGGTCTGTTTCTCATCTCCATGGACATCTTCAACAGCTTACCTGACAACGACTGT
TCCTATGAAGAAGCCACTTGTTGTTTTAAGCAGAGGCAACCTCTCTCTCTCTGTTTTCTGTAAGGCAGGGGAC
ACAGATGGGAGAGATTGAGCCAAGTCAGCCTTCTGTTGGTTAATATGGTATAATGCATGGCTTTGTGCACAGCCC
AGTGTGGGATTACAGCTTTGGGATGACCGCTTACAAAGTTCTGTTTGGTTAGTATTGGCATAGTTTTTCTATATA
GCCATAAATGCGTATATATACCCATAGGGCTAGATCTGTATCTTAGTGTAGCGATGTATACATATACACATCCAC
CTACATGTTGAAGGGCCTAACCAGCCTTGGGAGTATTGACTGGTCCCTTACCTCTTATGGCTAAGTCTTTGACTG
TGTTCAATTTACCAAGTTGACCCAGTTTGCTTTTTAGGTAAAGTAAGAACTCGAGAGTAAAGGCAAGGAGGGGGGC
CAGCCTCTGAATGCGGCCACGGATGCCTTGCTGCTGCAACCCTTTCCCCAGCTGTCCACTGAAACGTGAAGTCTT
GTTTTGAATGCCAAACCCACCATTCACTGGTGTGACTACATAGAATGGGTTGAGAGAAGATCAGTTTGGGCTTC
ACAGTGTCAATTTGAAAAAGCGTTTTTGTGTTTTGTTTTGAATTATTGTGGAAAACCTTCAAGTGAACAGAAGGATGG
TGTCTACTGTGGATGAGGGATGAACAAGGGGATGGCTTTGATCCAATGGAGCCTGGGAGGTGTGCCAGAAAGC
TTGTCTGTAGCGGTTTTGTGAGAGTGAACACTTTCCACTTTTTGACACCTTATCCTGATGTATGGTTCCAGGAT
TTGGATTTTGATTTTCCAAATGTAGCTTGAAATTTCAATAAACTTTGCTCTGTTTTTCTAAAAATAAAAA

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FIGURE 727

MNTEMYQTPMEVAVYQLHNFSISFFSSLLGGDVVSVKLDNSASGASVVAIDNKIEQAMD LVKNHLMYAVREEVEI
LKEQIRELVEKNSQLERENTLLKTLASPEQLEKFQSCLSPEEPAPESPQVPEAPGGS AV

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FIGURE 728

ATGGCGGCGGCGGCGGTGGTGGAGTTCCAGAGAGCCCAGTCTCTACTCAGCACCGACCGGGAGGCCTCCATCGAC
ATCCTCCACTCCATCGTGAAGCGTGACATTGAGGAAAACGATGAAGAGGCAGTGCAAGTCAAAGAGCAGAGCATC
CTGGAAGTGGGATCTCTCCTGGCAAAGACTGGACAAGCTGCAGAGCTTGGAGGACTCCTGAAGTATGTACGACCC
TTCTTGAATTCCATCAGCAAGGCTAAAGCAGCTCGCCTGGTCCGATCTCTTCTTGATCTGTTTCTTGATATGGAA
GCAGCTACAGGGCAGGAGGTGAGCTGTGTTTAGAGTCCATCGAATGGGCCAAGTCAGAGAAAAGAACTTTCTTA
CGCCAAGCTTTGGAGGCAAGACTGGTGTCTTTGTACTTTGATACCAAGAGGTACCAGGAAGCATTGCATTTGGGT
TCTCAGCTGCTGCGGGAGTTGAAAAAGATGGACGACAAAGCTCTTTTGGTGGAAGTACAGCTTTTAGAAAGCAA
ACATACCATGCCCTGAGCAACCTGCCGAAAGCCCGAGCTGCCTTAACCTTCTGCTCGAACCACAGCAAATGCCATC
TACTGCCCCCTAAATTGCAGGCCACCTTGGACATGCAGTCGGGTATTATCCATGCAGCAGAAGAGAAGGACTGG
AAAAGTGCCTACTCATACTTCTATGAGGCATTTGAGGGTTATGACTCCATCGACAGCCCCAAGGCCATCACATCT
CTGAAGTACATGTTGCTGTGCAAAATCATGCTCAACACCCCAAGATGTCCAGGCTTTGGTGAGCGGGGAGCTT
GCACTTCGGTATGCAGGGAGGCAGACAGAAGCATTAAATGCGTGGCTCAGGCTAGCAAGAACAGATCACTGGCA
GATTTTGAAGGCTCTGACAGATTACCGGGCAGAGCTCCGGGATGACCCAATCATCAGCACACACTTGGCCAAG
TTGTATGATAACTTACTAGAACAGAATCTGATCCGAGTCATTGAGCCTTTTCCAGAGTACAGATTGAACACATA
TCTAGTCTCATCAAATCTCCAAGGCCGACGTGGAAAGGAAATTATCACAGATGATTCTTGACAAGAAATTCAT
GGGATTTTGGACCAGGGGGAGGGTGTCTGATTATTTTCGATGAACCCCAAGTAGATAAACTTACGAAGCTGCT
CTGGAAACAATTCAGAACATGAGCAAAGTAGTGGATTCCCTCTACAACAAAGCCAAGAACTGACATAG

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FIGURE 729

MAAAVVEFQRAQSLLSTDREASIDILHSIVKRDIQENDEEAVQVKEQSILELGSLLAKTGQAAELGGLLKYVRP
FLNSISKAKAARLVRSLLDLFLDMEAATGQEVCLCLESIEWAKSEKRTFLRQALEARLVSLYFDTKRYQEALHLG
SQLRELKKMDDKALLVEVQLLESKTYHALSNLPKARAALTSARTTANAIYCPPKLQATLDMQSGIIHAAEEKDW
KTAYSIFYEAFEGYDSIDSPKAITSLKYMLLCKIMLNTPEDVQALVSGKLALRYAGRQTEALKCVAQASKNRS
LA DFEKALTDYRAELRDDPIISTHLAKLYDNLLEQNLRVIEPFSRVQIEHISSLIKLSKADVERKLSQMILDKKFH
GILDQGEGLIIFDEPPVDKTYEAALETIQNMSKVVDLSYNKAKKLT

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FIGURE 730

ACGTGTATCGCTGCCGTCAAGATGGAGGGGCCTTTGTCCGTGTTTCGGTGACCGCAGCACTGGGGAAACGATCCGC
TCCAAAACGTTATGGCTGCAGCTTCGATTGCCAATATTGTAAAAAGTTCTCTTGGTCCAGTTGGCTTGGATAAA
ATGTTGGTGGATGATATTGGTGATGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAA
CATCCTGCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGTTGGAGATGGAACACTTTCAGTG
ATTATTGCAGCAGAACTCCTAAAAAATGCAGATGAATTAGTCAAACAGAAAATTCATCCACATCAGTTATT
GCTATCGACTTGCTTGCAAGGAAGCAGTGCGTTATATCAATGAAAACCTAATTGTTAACACAGATGAAGTG
AGAGATTGCCTGATTAATGCTGCTAAGACATCCATGTCTTCCAAAATCATTGGGATAAATGGTGATTTCTTT
GTTAATATTTTGAAGCCCATGGGAGAAGTCAAATGGAGAGTATGCTCATCAGTGGCTATGCACTCAACTGT
GTTGGGATCCCAGGGCATGCCAAGAGAATCGTAAATGCAAAAATTGCTTGCTTGACTTCAGCCTGCAAAAA
AAATGAAGCTTGGTGTACAGGTGGTCATTACAGACCCTGAAAACTGGACCAAATTAGACAGAGAGAATCA
ATCACCAGGAGAGAATTCAGAAGATCCTGGCAACTGGTGCCAATGTTATTCTAACCCTGGTGGAATTGAT
ATATGTGTCTGAAGTATTTTGTGGAGGCTGGTGCTATGGCAGTTAGAAGAGTTTTAAAAAGGGACCTTAAACGC
ATGGCCAAAGCTTCTGGAGCAACTATTCTGTCAACCTGGCCAATTTGGAAGGTGAAGAACTTTTGAAGCTGCA
ATGTTGGGACAGGCAGAAGAAGTGGTACAGGAGAGAATTTGTGATGATGAGCTGATCTTAATCAAAAATACTAAG
GCTCGTACGTCTGCATCGATTATCTTACGTGGGGCAAATGATTTTATGTGTGATGAGATGGAGCGCTCTTTACAT
GATGCACTTTGTGTAGTGAAGAGAGTTTTTGGAGTCAAAATCTGTGGTTCCCGGTGGGGGTGCTGTAGAAGCAGCC
CTTTCCATATACCTTGAAAATATGCAACCAGCATGGGGTCTCGGGAACAGCTTGCGATTGCAGAGTTTGCAAGA
TCACTTCTTGTTATTCCCAATACACTAGCAGTTAATGCTGCCCAGGACTCCACAGATCTGGTTGCAAAATTAAGA
GCTTTTCATAATGAGGCCAGGTTAACCCAGAACGTAAAAATCTAAAATGGATTGGTCTTGATTGAGCAATGGT
AAACCTCGAGACAACAAACAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTTTTGAAATTTGCAACA
GAAGCTGCAATCACCATTCTTCGAATTGATGATCTTATTAAATTACATCCAGAAATCCTTCGGATTAAACATGGA
AGTTATGAAGATGCTGTTCACTCTGGAGCCCTTAATGATGATCTGATGTTTCTTTTATTATAACAATGTTAAA
TGCAATGTCTTGTTACCTTGAGTTGAGTATTACACATTAAAGTAAAGTACAAGCTGTAAACTTTGGGTTTTTGTGAT
GTAGGAAATGGTTTCCATCTGTACTTTGGTCCTCTGATTTTCAGATATTGCAACCTAGTACTTTATTAGTTTAAAA
AGAAATTGAGGTTGTTCAAAGTTTAAGCAATTCATTCTCTCTGAACACACATTGCTATTCCCATCCACCCCCAA
TGCACAGGGCTGCAACACCACGACTTCTGCCCATCTCTCCAGTGTGTGTAACAGGGTCACAAGAATTC

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FIGURE 731

MEGPLSVFGDRSTGETIRSQNVMAAASIANIVKSSLGPVGLDKMLVDDIGDVTITNDGATILKLLEVEHPAAKVL
CELADLQDKEVGDGTTSVVIAAELLKNADELVKQKIHPTSVISGYRLACKEAVRYINENLIVNTDELGRDCLIN
AAKTSMSKIIIGINGDFFANMVVDAVLAIKYTDIRGQPRYPVNSVNILKAHGRSQMESMLISGYALNCVVGSGQM
PKRIVNAKIACLDFSLQKTKMKLGVQVVIDPEKLDQIRQRES DITKERIQKILATGANVILTTGGIDDMCLKYF
VEAGAMAVRRVLKRD LKRIAKASGATILSTLANLEGEETFEAAMLGQAEEVVQERICDDELILIKNTKARTSASI
ILRGANDFMCDEMERSLHDALCVVKRVLESKSVVPGGGAVEAALSIYLENYATSMGSREQLAIAEFARSLVIPN
TLAVNAAQDSTD LVAKLRAFHN EAQVNPERKNLKWIGLDLSNGKPRDNKQAGVF EPTIVKVKSLKFATEAAITIL
RIDDLIKLHPEILRIKHGSYEDAVHSGALND

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FIGURE 732

GCTTTCTTTCCGTCGCAGAGAGCATCGGCCGGCGACCGTTCCGGCGGCCATTGCGAAAACTTCCCCACGGCTACT
GCGTCCACGTGGCGGTGGCGTGGGGACTCCCTGAAAGCAGAGCGGCAGGGCGCCCCGGAAGTCGTGAGTCGAGTCT
TCCCGGGCTAATCCATGCGGGGTGGAGGCTGCTGACGCAGGTCGGCGCCCAGGTGCTGGGTGCGACTCGGGGACG
GCCTGGGTGCTGCCCTGGGCCCCGGGGAACAGAACACACATCTGGCTTTTTGTTAGAGGTCTTCATGGAAAGAGTG
GTACATGGTGGGATGAGCATCTTTCTGAAGAAAATGTCCCATTCATTAAGCAGTTGGTCTCTGATGAAGATAAAG
CCCAATTAGCAAGTAACTGTGTCTCTGAAAGATGAACCATGGCCTATACATCCTTGGAACCAAGGTTCCCTTA
GAGTTGGTCTTATTGCCTTGAAGCTGGGCATGATGCCCTTTATGGACCAAGGATGGTCAAAAGCATGTGGTCACAT
TACTTCAGGTACAAGACTGTCTGTCTTAAAAATACGTCAAAGGAAAACGTGAATGGAAAAATGGCAACCCTGT
CTGTAGGAGGAAAACTGTATCACGTTTTTCGTAAAGCTACATCCATATTGGAATTTTACCGGGAACCTTGGATTGC
CGCCGAAACAGACAGTTAAAAATCTTTAATATAACAGATAATGCTGCAATTAAACCAGGCACTCCTCTTTATGCTG
CTCACTTTTCGTCCAGGACAGTATGTGGATGTCACAGCCAAAACCTATTGGTAAAGGTTTTCAAGGTGTCATGAAAA
GATGGGGATTTAAAGGCCAGCCTGCTACGCATGGTCAAACGAAAACCCACAGGAGACCTGGAGCTGTTGCAACTG
GTGATATTGGCAGAGTCTGGCCTGGAACATAAAATGCTTGAAAAATGGGAAACATATACAGGACAGAATATGGAC
TGAAAGTGTGGAGAATAAACACAAAGCACAAACATAATCTATGTAAATGGCTCTGTACCTGGACATAAAAAATTGCT
TAGTAAAGGTCAAAGATTCTAAACTGCCTGCATATAAGGATCTCGGTAAAAATCTACCATTCCCTACATATTTTC
CTGATGGAGATGAAGAGGAACTGCCAGAAGATTTGTATGATGAAAACGTGTGTCAGCCCCGGTGCGCCTTCTATTA
CATTTGCCCTAACATCTTTGGACGTGGCAGAACCTTACATATTCTGTGAGCTTCGATGAGCCAGAGTGATATCATA
ACCACCAGAAATCATACTCTCCTTTCTTAGTCACAACAAAATCACACATGTCATCTTTGTCAAGGGCATAAATAT
ATCATTATACCCCCATTAAATTTTGTAGAAAAATTACCACATTAAATATATGAGTTAAGTAGATTGGATTGTC
TGAAATTGGTGTGGGCATATTAGCAAAATATTCTTAATTTGTGGACTCGATTCTTTTTTACTACATATTTCCCA
AGTTATCTTAAGATGTCTGTAAATTTAACTTTTTATTAAAGTTTTGTCAATCTTTGTGAAATAGTGGTTGTGGAAC
AGTAGAAAACCATATGGGGACTATAGTGCAACCTATTTGGGTAAAGAAACCATTTGCTAAAATGGAGAAAGTAA
TAGATTTTTATTAAATTACAGAAACATGTTAAAGGCCGGACAAAGGAAAGACAATAAAATCATAAATTATCGGT
CCTGTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 733

MPGWRLLTQVGAQVLGRLGDGLGAALGPGNRTHIWLFVRGLHGKSGTWWEHLSEENVPFIKQLVSDDEKAQLAS
KLCPLKDEPWPIHPWEPGSFRVGLIALKLGMMPLWTKDGQKHVVTLQVQDCHVLKYTSKENCNGKMATLSVGGK
TVSRFRKATSILEFYRELGLPPKQTVKIFNITDAAIKPGTPLYAAHFRPGQYVDVTAKTIGKGFQGVMKRWGFK
GQPATHGQTKTHRRPGAVATGDIGRVWPGTKMPGKMGNIRTEYGLKVWRINTKHNIIVVNGSVPGHKNCLVKVK
DSKLPAYKDLGKNLPFPPTYFFPDGDEEELPEDLYDENVCQPGAPSITFA

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FIGURE 734A

CGCCGCGGTGCTGAGGGGGAGGGGAGCCGGCGAGCGCGCGCAGCGGGGGCGGGGTGGCGCGCTGTGTGTGA
AGGGGGGGCGGTGGCCGAGGCGGGCGGGCGCGCGCGCAGGCTTCCCCTCGTTTGGCGGCGGCGGGCTTCTTT
GTTTCGTGAAGAGAAGCGAGACGCCATTCTGCCCCGCGCCCCGCGCGGAGGGGCGGGGAGGCGCCGGGAAGTC
GACGGCGCCGGCGGCTCCTGCGAGAGGCCACTGTCTGCAGCTCCCCTGAAGATGTCCACTCCAGACCCACCCCTG
GGCGGAACCTCCTCGGCCAGGTCCTTCCCCGGGCCCTGGCCCTTCCCCTGGAGCCATGCTGGGCCCTAGCCCGGGT
CCCTCGCCGGGCTCCGCCACAGCATGATGGGGCCAGCCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACC
CAGGGGCTGGAGGGTACCCTCAGGACAACATGCACCAGATGCACAAGCCCATGGAGTCCATGCATGAGAAGGGC
ATGTCGGACGACCCGCGCTACAACCAGATGAAAGGAATGGGGATGCGGTGAGGGGGCCATGCTGGGATGGGGCC
CCGCCAGCCCCATGGACCAGCACTCCCAAGGTTACCCCTCGCCCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCA
GTTCCAGCCAGTGGCCCGTCTTTCGGGGCCCCAGATGTCTTCCGGGCCAGGAGGTGCCCGCTGGATGGTGCTGAC
CCCCAGGCCTTGGGGCAGCAGAACCAGGGGGCCCAACCCATTAAACCAGAACCAGCTGCACCAGCTCAGAGCTCAG
ATCATGGCCTACAAGATGCTGGCCAGGGGGCAGCCCCCTCCCCGACCACCTGCAGATGGCGGTGCAGGGCAAGCGG
CCGATGCCCGGGATGCAGCAGCAGATGCCAACGCTACCTCCACCCCTCGGTGTCCGCAACAGGACCCGGCCCTGGC
CCTGGCCCTGGCCCGGGCCCGGGTCCCAGGGCCGACCTCCAAATTACAGCAGGCCTCATGGTATGGGAGGGCCC
AATATGCCTCCCCAGGACCCCTCGGGCGTGCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAAGCCC
TGGCCTGAAGGACCCATGGCGAATGCTGCTGCCCCACGAGCACCCCTCAGAAGCTGATCCCCCGCAGCCAACG
GGCCGCCCTTCCCCCGCGCCCCCTGCCGTCCCACCCGCCGCTCGCCCGTGATGCCACCGCAGACCCAGTCCCCC
GGGCAGCCGGCCAGCCCGCGCCCATGGTGCCACTGCACCAGAAGCAGAGCCGCATACCCCCATCCAGAAGCCG
CGGGGCTCGACCCTGTGGAGATCCTGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCCGAATTCAG
GAACCTGAAAACCTTCCCGGGTCCCTGGCCGGGGATTGCGCAACCAGGCGACCATGAGCTCAAGGCCCTCAGG
CTGCTGAACCTCCAGAGGCAGCTGCGCCAGGAGGTGGTGGTGTGCATGCGGAGGGACACAGCGCTGGAGACAGCC
CTCAATGCTAAGGCCTACAAGCGCAGCAAGCGCCAGTCCCTGCGCGAGGCCCGCATCACTGAGAAGCTGGAGAAG
CAGCAGAAGATCGAGCAGGAGCGCAAGCGCCGGCAGAAGCACCAGGAATACCTCAATAGCATTCTCCAGCATGCC
AAGGATTTCAAGGAATATCACAGATCCGTACAGGCAAAATCCAGAAGCTGACCAAGGCAGTGGCCACGTACCAT
GCCAACACGGAGCGGGAGCAGAAGAAAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAA
GATGAGGAGGGGTACCGCAAGCTCATCGACCAGAAGAAGGACAAGCGCCTGGCCTACCTCTTGACAGCAGACAGAC
GAGTACGTGGCTAACCTCACGGAGCTGGTGCAGGAGCACAAGGCTGCCAGGTGCGCAAGGAGAAAAAGAAAA
AAGAAAAAGAAGAAGGCAGAAAAATGCAGAAGGACAGACGCCTGCCATTGGGCCGGATGGCGAGCCTCTGGACGAG
ACCAGCCAGATGAGCGACCTCCCGGTGAAGGTGATCCACGTGGAGAGTGGGAAGATCCTCACAGGCACAGATGCC
CCCAAAGCCGGGCAGCTGGAGGCCTGGCTCGAGATGAACCCGGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAA
GAAAGTGGCTCAGAAGAAGAGGAAGAGGAGGAGGAGGAAGAGCAGCCGAGGCAGCAGCCTCCCACCTGCC
GTGGAGGAGAAGAAGAAGATTCCAGATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAG
AATGCCAAGCAAGATGTCGATGATGAATATGGCGTGTCCAGGCCCTTGACGTGGCCTGCAGTCTACTATGCC
GTGGCCCATGCTGTCACTGAGAGAGTGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCTCTAAACAGTACCAG
ATCAAAGGTTTGGAGTGGCTGGTGTCCCTGTACAACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTG
GGGAAGACCATCCAGACCATCGCGCTCATCACGTACCTCATGGAGCACAAACGCATCAATGGGCCCTTCCTCATC
ATCGTGCTCTCTCAACGCTGTCCAACCTGGGCGTACGAGTTTGACAAGTGGGCCCCCTCCGTGGTGAAGGTGTCT
TACAAGGGATCCCCAGCAGCAAGACGGGCCTTTGTCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACG
ACGTACGAGTACATCATCAAAGACAAGCACATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGT
CACCGCATGAAGAACCACCACTGCAAGCTGACGCAGGTGCTCAACACGCACTATGTGGCACCCCGCCGCTGCTG
CTGACGGGCACACCGCTGCAGAACAAGCTTCCCGAGCTCTGGGCGCTGCTCAACTTCTGCTGCCACCATCTTC
AAGAGCTGCAGCACCTTCGAGCAGTGGTTTTAACGCACCCCTTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAG
GAGGAAACCATTTCTCATCTCCGGCGTCTCCACAAAGTGCTGCGGCCCTTCTTGCTCCGACGACTCAAGAAGGAA
GTGAGGGCCAGTTGCCCGAAAAGGTGGAGTACGTATCAAGTGCGACATGTCTGCGCTGCAGCGAGTGTCTAC
CGCCACATGCAGGCCAAGGGCGTGCTGCTGACTGATGGCTCCGAGAAGGACAAGAAGGGCAAAGGCGGCACCAAG
ACCCTGATGAACACCATCATGCAGCTGCGGAAGATCTGCAACCACCCCTACATGTTCCAGCACATCGAGGAGTCC
TTTTCGAGCACTTGGGGTTCACTGGCGGCATTGTCCAAGGGCTGGAOCTGTACCGAGCCTCGGGTAAATTTGAG
CTTCTTGATAGAATTCTTCCCAAACCTCCGAGCAACCAACCAAAAGTGCTGCTGTTCTGCCAAATGACCTCCCTC

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FIGURE 734B

ATGACCATCATGGAAGATTACTTTGCGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAG
GACCGGGGCATGCTGCTGAAAACCTTCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCT
GGGGGGCTCGGCCCTGAACCTCCAGTCGGCAGACACTGTGATCATTTTTGACAGCGACTGGAATCCTCACCAGGAC
CTGCAAGCGCAGGACCGAGCCACCGCATCGGGCAGCAGAACGAGGTGCGTGTGCTCCGCCTCTGCACCGTCAAC
AGCGTGGAGGAGAAGATCCTAGCTGCAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATG
TTCGACCAGAAGTCCTCCAGCCATGAGCGGCGCGCCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAG
AGCAGACACTGCAGCACGGGCAGCGGCAGTGCCAGCTTCGCCCACACTGCCCTCCGCCAGCGGGCGTCAACCCC
GACTTGGAGGAGCCACCTCTAAAGGAGGAAGACGAGGTGCCCGACGACGAGACCGTCAACCAGATGATCGCCCGG
CACGAGGAGGAGTTTGATCTGTTTCATGCGCATGGACCTGGACCGCAGGCGGAGGAGGCCGCAACCCCAAGCGG
AAGCCGCGCCTCATGGAGGAGGACGAGCTCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACC
TGTGAGGAGGAGGAGGAGAAGATGTTCCGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTCACTG
ACGGAGAAGCAGTGGCTCAAGGCCATCGAGGAGGGCACGCTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAGAAA
TCATCACGGAAGCGCAAGCGAGACAGCGACGCCGGCTCCTCCACCCCGACCACCAGCACCCGCGGACGACAAG
GACGACGAGAGCAAGAAGCAGAAGAAGCGCGGGCGGCCCTGCCGAGAACTCTCCCTAACCCACCCAACCTC
ACCAAGAAGATGAAGAAGATTGTGGATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTCAGCTCAGCGAG
GTCTTCATCCAGCTGCCCTCGCGAAAGGAGCTGCCCGAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAG
AAGATAAAGGAGCGCATTTCGCAACCACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTCATGCTCCTGTGC
CAGAACGCACAGACCTTCAACCTGGAGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGAGTCCGGTCTTCACC
AGCGTGCAGGAGAAAATCGAGAAGGAGGATGACAGTGAAGGCGAGGAGAGTGAGGAGGAGGAAGAGGGCGAGGAG
GAAGGCTCCGAATCCGAATCTCGGTCCGTCAAAGTGAAGATCAAGCTTGGCCGGAAGGAGAAGGCACAGGACCGG
CTGAAGGGCGGGCGGGCGGGCGGCGGAGCCGAGGGTCCCGAGCCAAGCCGGTCTGTGAGTGACGATGACAGTGAGGAG
GAACAAGAGGAGGACCGCTCAGGAAGTGGCAGCGAAGAAGACTGAGCCCCGACATTCCAGTCTCGACCCCGAGCC
CCTCGTTCCAGAGCTGAGATGGCATAGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGGAGTA
AACTGTATAAACAAGAAATCTTCCATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGTGACTGGCCCTGTC
CTGGCATCAGTAGCATCTGTAAACAGCATTAACTGTCTTAAAGAGAGAGAGAGAGAATTCCGAATTGGGGAAACACA
CGATACCTGTTTTTCTTTTCCGTTGCTGGCAGTACTGTTGCGCCGACGTTTGGAGTCACTGTAGTTAAGTGTGGA
TGCATGTGCGTACCGTCCACTCCTCCTACTGTATTTTATTGGACAGGTGAGACTCGCCGGGGGGCCCGCGAGGG
TATGTCAGTGTCACTGGATGTCAAACAGTAATAAATTAAACCAACAACAAAACGCA

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FIGURE 735

MSTPDPLGGTPRPGPSPGPGSPGAMLGSPGSPGSAHSMGSPSGPPSAGHP IPTQGGGYPQDNMHQMHKP
MESMHEKGMSDDPRYNQMKGMGRSGGHAGMGPPSPMDQHSQGYPSPLGGSEHASSVPASGPSSGPMSSGPG
GAPLDGADPQALGQQNRGPTPFNQNLHQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMGPMQQQMPTLPPPSV
SATGPGPGPGPGPGPGPAPPNYSRPHGMGGPNMPPPGPSGVPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQ
PPQFTGRPSAPPAPVPPAASPVMPPTQSPGQPAQAPAMVPLHQKQSRITPIQKPRGLDPVEILQEREYRLQ
RHRIQELNLPGLAGDLRTKATIELKALRLNLFQRQLRQEVVCMRRDTALETALNAKAYKRSKRQSLREA
FKLEKQQKIEQERKRRQKHQEYLSILQHAKDFKEYHRSVTKGIQKLTAVATYHANTEREQKKENERIEKE
PMRLMAEDEEGYRKLIDQKKDKRLAYLLQOTDEYVANLTELVRQHKAQVAKEKKKKKKKKKAENAEGQTPAIG
FPLDETSQMSDLPVKVIHVESGKILTGTDAPKAGQLEAWLEMNPGYEVAPRSDSEESGSEEEEEEEEEEQPQ
FPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDDYGVVSQALARGLQSYAVAHAVTERVDKQSALMV
KQYQIKGLEWLVSNNLNGILADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKW
VVKVSYKGSPAARRAFVPQLRSGKFNVLLTTYEYIIKDKHILAKIRWKYMIVDEGHRMKNHHCKLTQVLNTH
APRRLLLTGTPLQNKLPWALLNLLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEETILIIIRRLHKVLRPF
ARRLKKEVEAQLPEKVEYVIKCDMSALQRVLYRHMQAQGVLLTDGSEKDKKGKGGTKTLMNTIMQLRKICNHPY
MFQHIEESFSEHLGFTGGIVQGLDLYRASGKFELLDRIPLPKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLR
LOGTTKAEDRGMLLKTTFNEPGSEYFIFLLSTRAGGLGLNLQSADTVIIFDSDWNPHQDLQAQDRAHRIGQONEVR
VLRCTVNSVEEKILAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILEHEEQDESRHCSTGSGSASFHTA
PPPAGVNPDLPEPPLKEEDEVPDDETQNMIAHHEEEFDLFMRMDLDRRREARNPKRKPRLMEDELP SWI IKD
DAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEVRQKKSSRKRKRDSDAGSSTPT
TSTRSRDKDDESKKQKGRPPAEKLSNPNNLTCKMKKIVDAVIKYKDSSSGRQLSEVFIQLPSRKELPEYYEL
IRKPVDFFKKIKERIRNHKYRSLNLEKDVMLLCQNAQTFFNLEGLIYEDSIVLQSVFTSVRQKIEKEDDSEGEES
EEEEEGEEGSESESRSVKVIKILGRKEKAQDRLKGGRRRPSRGSRAKPVVSDDDSEEEQEEDRSGSGSEED

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FIGURE 736

ATGGCGCTTGCCAGCGTGTTGGAGAGACCGCTACCGGTGAACCAGCGCGGGTTTTTCGGACTTGGGGGTCGTGCA
GATCTGCTGGATCTAGGTCCAGGGAGTCTCAGTGATGGTCTGAGCCTGGCCGCGCCAGGCTGGGGTGTCCCAGAA
GAGCCAGGAATCGAAATGCTTCATGGAACAACCACCCTGGCCTTCAAGTTCCGCCATGGAGTCATAGTTGCAGCT
GACTCCAGGGCTACAGCGGGTGCTTACATTGCCTCCCAGACGGTGAAGAAGGTGATAGAGATCAACCCATACCTG
CTAGGCACCATGGCTGGGGGCGCAGCGGATTGCAGCTTCTGGGAACGGCTGTTGGCTCGGCAATGTCGAATCTAT
GAGCTTCGAAATAAGGAACGCATCTCTGTAGCAGCTGCCTCCAAACTGCTTGCCAACATGGTGTATCAGTACAAA
GGCATGGGGCTGTCCATGGGCACCATGATCTGTGGCTGGGATAAGAGAGGCCCTGGCCTCTACTACGTGGACAGT
GAAGGGAACCGGATTTTCAGGGGCCACCTTCTCTGTAGGTTCTGGCTCTGTGTATGCATATGGGGTCATGGATCGG
GGCTATTCCTATGACCTGGAAGTGGAGCAGGCCTATGATCTGGCCCGTCGAGCCATCTACCAAGCCACCTACAGA
GATGCCTACTCAGGAGGTGCAGTCAACCTCTACCACGTGCGGGAGGATGGCTGGATCCGAGTCTCCAGTGACAAT
GTGGCTGATCTACATGAGAAGTATAGTGGCTCTACCCCTTGA

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FIGURE 737

MALASVLERPLPVNQRGFFGLGGRADLLDLGPGSLSDGLSLAAPGWGVPEEPGIEMLHGTTTTLAFKFRHGVIVAA
DSRATAGAYIASQTVKKVIEINPYLLGTMAGGAADCSFWERLLARQCRIYELRNKERISVAAASKLLANMVYQYK
GMGLSMGTMICGWDKRGPGLYYVDSEGNRISGATFSVSGSGSVYAYGVMDRGYSYDLEVEQAYDLARRAIYQATYR
DAYSGGAVNLYHVREDGWIRVSSDNVADLHEKYSGSTP

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FIGURE 738A

TGCTAAGTAACTTGTTTATTGTCAGACATCTAGTGAGTCGCAGAGCCAGGGAAGTACCACGGGCATTTTCACCC
CATTACCCCTTCAGCTTATTGCCGACTGCTCCCGAAGGGAGCGAAAAGGACAGGCAAAGGGTTTCACCAAACCCCT
TTGTAATGGGAGATTCTTGCCCTTCTTACCTTTCCCTACGTTTGCTTCTCTGCCAGAATGTCTTCCCGCACTTTCC
CCAGAACCCAAAGTTCTCCTAATCATCTTTCAAGATCCCTTTCCCTCAACCACAGATGAGCCGTGCCTATTTCTCC
TTCAAATGACTCCCTATGGCTTCTAGTTGGTAGTCTTTTTATTTACCACCTCATAGTCCTTTTATTTATATCCCAT
AAATGATCGTCCGGCCCCGCACCGTGGGACCAGGACGCTGCCTCGACCATGGCGGTCTCCTGGAAACAGGCTGCT
TTGAGCCGAAACTGGTGACCGTTTCCCAACCCCGTCCAGGAGTCCGACGCCCTCTTTCTCCAGGCCAACTTCAAG
TGAGGTGTATCAACTCTATCCGCACAAATTTCTTGCCACGAGAGCAGAAGATTATGATCTCTGATGCTGCCTTAG
GGCTGAAGACACTCCCAACTCGGCGACGCTTAGCAATCATCGACTTCCTCCTCCTCTTGCTGCCTCGGAGATCC
TGTTCCGGGGCAGAGGTCTCCCCGCCCGCCCCCTCGTCTCCTCCAAGATGGCGAGCGGCGGCAGCGGGGGGTGT
CAGTACCTGCGCTGTGGAGTGAAGTGAACCGGTATGGCCAGAACGGCGACTTCACGCGCGCTCTCAAGACCGTCA
ATAAGATACTACAGATCAACAAAGATGACGTAAGTGCCTTGCAAGACAATAGAAAGTGCCAAACCAGCAGACAGACA
GTTTCAAGGAAGCTTTGAATGTCAATACTCACACCAAAGTGTTAGCCAATAACTCTCTCTCCTTTGAAAAGG
CATATTGCGAGTACAGGCTGAACAGAATTGAGAATGCCTTGAAAGACAATAGAAAGTGCCAAACCAGCAGACAGACA
AACTGAAGGAGCTTTATGGACAAGTGTTATACCGTTTGGAACGCTATGATGAATGCTTAGCAGTGTATAGAGATC
TCGTCCGAAACTCCCAAGATGATTATGATGAGGAGAGGAAAACAAACCTTTCAGCAGTTGTTGCAGCTCAAAGCA
ATTGGGAAAAAGTGGTTCAGAGAACCTGGGCCTCCAAGAAGGCACACATGAGCTGTGCTACAACACTGCATGTG
CACTGATAGGCCAAGGCCAGCTGAACCAGGCCATGAAAATCCTACAAAAGCTGAAGATCTTTGCCGCCGTTTCAT
TATCAGAAGACACTGATGGGACTGAGGAAGACCCACAGGCAGAACTGGCCATCATTATGGTCAGATGGCTTATA
TTCTGCAGCTTCAGGGTCTGAACAGAGGAGGCTTTGCAACTTTACAATCAAATAATAAACTAAAACCAACAGATG
TGGGATTACTAGCTGTAATTGCAAATAACATCATTACCATTAAACAAGGACCAAAATGTCTTTGACTCCAAGAAGA
AAGTGAAATTAACCAATGCGGAAGGAGTAGAGTTTAAAGCTTTCCAAGAAACAACTACAAGCTATAGAATTTAACA
AAGCTTTACTTGCTATGTACACAAACCAGGCTGAACAATGCCGCAAAATATCTGCCAGTTTACAGTCCCAAAGTC
CCGAGCATCTCTTACCTGTGTTAATCCAAGCTGCCCAGCTCTGCCGTGAAAAGCAGCACACAAAAGCAATAGAGC
TGCTTCAGGAATTTTCAGATCAGCATCCAGAAAATGCAGCTGAAATTAAGCTGACCATGGCACAGTTGAAAATTT
CTCAAGGTAATATTTCTAAAGCATGTCTAATATTGAGAAGCATAGAGGAGTTAAAGCATAAACCAGGCATGGTAT
CTGCATTAGTTACCATGTATAGCCATGAAGAAGATATTGATAGTGCCATTGAGGTCTTCACACAAGCTATCCAGT
GGTATCAAACCATCAGCCAAAATCTCCTGCTCATTGTCTTGATAAGAGAAGCTGCAAACCTTCAAACCTCAAAT
ATGGGCGGAAGAAGGAGGCAATTAGTGACCTACAACAGCTGTGGAAACAAAATCCAAAAGATATTCACACCCCTGG
CACAGCTTATTTCTGCTTACTCACTTGTAGATCCAGAGAAAGCCAAAGCTCTTAGTAAACACTTGCCATCGTCAG
ATAGTATGTCTCTAAAAGTAGATGTTGAGGCTCTTGAAAATCTGCTGGTGCTACATACATTGGAAGAAGGGTG
GAAAAGTTACTGGAGATAGTCAACCAAAGGAACAAGGACAGGGAGATTGAAAAGAAGAAAAAGAAAAAGAAGG
GAAAATTGCCTAAGAATTATGACCCAAAAGTTACCCAGATCCAGAAAGATGGCTGCCAATGCGAGAACGTTCTT
ACTACCGGGGAAGAAAGAAGGGTAAAAAGAAGGATCAGATTGGAAAAGGGACCCAGGGAGCAACTGCAGGAGCTT
CATCTGAAGTGGATGCCAGTAAACTGTGAGCAGCCACCCACCTCCCCAAGACCTGGCAGTGTGCAACAGTAT
CTGCCCTCTACAAGTAACATCATACCCCCAAGACACCAGAAACCTGCAGGGGCTCCAGCAACAAAAAGAAACAGC
AACAGAAAAAGAAGAAAGGTGGAAAAGGTGGCTGGTGAATGAGAATATTCTTGTTGCAGGCTGTTTTTAACTAGT
GTCAGTGACACTAGGAATATAATAAAGGTAACACAGCAAGAAGCACAGAACTACTCCCTCTTCATCTCCATATTT
TCATAATTTCTTGTTTCAAATAGGGAAACATCTTCTCAAAGTCTGCCTAGTGAGATATGGCCTACTGGTTGC
CTCATAGCTTTGTACAGATTATGAGGACTGAAAATAATTGGGCATTTACCCATCTTGGTATCTGTTGTATCCTTT
ATCTGTGTGTGCTGATTTGATCTTTTTTCAGTTTCACATACCTTATCTAAGGTTTCCCAGGATTTAAACAGAAAC
TACTTCTATGATTTACAGCTGGAGTCTGAAGATACTTGTTTCTGTTCAAGTCCCACTTTAAATTATGTCTTAGGAG
ACTGAAAGTGGAATCTTCTGAGCATTCTTAATATCTGCTTAGAAATATCATGTGATAAAGAGGGACCTTCTTAA
TACACTGATGTTCTTCACTAAATGGATGGCCACAAGAAAAATAAAGTAAATGTCTTAAATAATTTAACCATAAAT
TTTCTGTCTATGTGATACTGGAATATGGGATACTTTTCATGTTTATATATATATATATATATATATATATACGA
TATATATATATATAAACNTGAAATATATATATATATGGCTCCTTTGTGCCCCATGTCATTTTCAGATTATGGTAG
CATGCTGATACAGCACCATGAAAGAACTCAAGGAAAATATATCAATGTAAGAAGTTCCTTCTAGACCCAGTGT
CTGAGGTCACATGGGTTTGACTGTCTCAATCAGAAAGATTAATGACTGTTATCAAGAACATGAACATTGGCTTC

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FIGURE 738B

CTCCATAGAGAAGAAATCAGTATCTGAGTTGCATACCAGGCAGTATTAAAATCTAACAGGTCTGTTTGGCCCAT
GATAGATACTCAAATGGTGTCTCCTTCTGGTTATGGATTTTGACCATTGATTACCTTTCTCAATGTAATGAAGTA
TTTTACAGTCAATTTGTGGTGTAATGTTGCTCTTGCTTTTCCTTGCTTACAACTACTTTCACATTGAACAGCT
GTGAGACAGACATATTGAGATGCCCTGCCCTTGTTAGTATTCAATTTATGCTGCCCAAGATATCATTTAATTTAGA
CTTAACAAGTATTTCCCTTGTGATTATATTACTCTGTCTTGTTAATAAAGTGCTGCTGTGTTTGACTCTGAACAT
ACTACCAAACCTTCTTCAAAGAGTTTTTTATGAAAGACTTTCCTCCTTTACAAGAAAGAAATGGGGTGCTGCCTT
TCTGTTTAGTAAAAGCAGAATTTGCAGTGGCATCTAAAGAGATCTTTTTTAAATAAAAATTATGTATTGTGGCAT
AATCCTTTTTTTGAGCTCTACAGAGAACAGTCTTTTGGTAATAGTGGCAGGTATTTATTCCTTCTGAATATATAC
CCCATTATAGGAATAACTGTTACTTATTTAGGATTCCATCATTGAAAATTTTGACCCAAGGCACAGCAGTGAAAT
TTATAGTTCTCAATTTAGTTGTCATTATTGACAGGCATTGGTATTATTAGTCATTGCTAAGCAACTAAACTTCA
TCAGTTCAAATAAGTTTTAATTGTCAAATGAAGTATAAACACATGAACTTTCTAGAAATATTTCTCTTTTGGAT
AGGTCTTTAACCAGTTCATATATATACTTTGTCAAATATATGGATGTGTATGTGTACATTTATAAGAACCAGTAT
GGATACATCCATTCACTGTGGTACATTTTAAATAAAATATTTTAGCAGTGAATATGGAAA

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FIGURE 739

MIVRPRTVGPGRCLDHGGLLETGCFEPKLVTVSQPRPGVRRLFSPGQLQVRCINSIRTNFLPREQKIMISDAALG
LKTLPTRRRLAIIDFLLLLAASEILFRGRGLPAPPLVSSKMASGGSGGVSPALWSEVNRYGQNGDFTRALKTVN
KILQINKDDVTALHCKVVCLIQNGSFKEALNVINTHTKVLANNLSFEKAYCEYRLNRIENALKTIESANQQTDK
LKELYGQVLYRLERYDECLAVYRDLVRNSQDDYDEERKTNLSAVVAAQSNWEKVVPENLGLQEGTHELCYNTACA
LIGQGQLNQAMKILQKAEDLCRRSLSEDTDGTEEDPQAE LAI IHGQ MAY ILQLQGRTEEALQLYNQI IKLKPTDV
GLLAVIANNIITINKDQNVFDSKKKVKLTAEGVEFKLSKKQLQAIEFNKALLAMYTNAEQCRKISASLQSQSP
EHLPLVLIQAAQLCREKQHTKAIELLQEFSDQHPENAAEIKLTMAQLKISQGNISKACILRSIEELKHKPGMVS
ALVTMYSHEEDIDSAIEVFTQAIQWYQNHQPKSPAHL SLIREAANFKLKYGRKKEAISDLQQLWKQNP KD IHTLA
QLISAYSLVDPEKAKALSKHLPSSDSMSLKV DVEALENSAGATYIRKKGGKVTGDSQPKEQGQGLKKKKKKKG
KLPKNYDPKVTPDPERWLPMRERSYYRGRKKGKKKDQIGKGTQGATAGASSELDASKTVSSPPTSPRPGSAATVS
ASTSNIIPPRHQKPAGAPATKKKQQQKKKKGGKGGW

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FIGURE 740

CGGTGCCTGGTGC GGGAGCTACGGGGCC CAGGGATTGTGTTTAAAGTAGTGCTTCTACCAACATGTCCCGTGGTT
CTAGCGCCGGTTTTGACCGCCACATTACCATTTTTTACCCGAGGGTCGGCTCTACCAAGTAGAATATGCTTTTA
AGGCTATTAACCAGGGTGGCCTTACATCAGTAGCTGTCAGAGGGAAAGACTGTGCAGTAATTGTGCACACAGAAGA
AAGTACCTGACAAATTATTGGATTCCAGCACAGTGACTCACTTATTCAAGATAACTGAAAACATTGGTTGTGTGA
TGGGAATGACAGCTGACAGCAGATCCCAGGTACAGAGGGCACGCTATGAGGCAGCTAACTGGAAATACAAGT
TATGAGATTCCGTGGACATGCTGTGTAAAAGAATTGCCGATATTTCTCAGGTCTACACACAGAATGCTG
GAGGCCTCTTGGTTGTTGTATGATTTTAATTGGTATAGATGAAGAGCAAGGCCCTCAGGTATATAAGTGTG
CTGCAGGTTACTACTGTGGGTTTAAAGCCACTGCAGCGGGAGTTAAACAACTGAGTCAACCAGCTTCCTTG
AAAAGTGAAGAAGAAATTTGATTGGACATTTGAACAGACAGTGGAACTGCAATTACATGCCTGTCTACTG
ATCAATTGATTTCAAACCTTCAGAAATAGAAGTTGGAGTAGTGACAGTTGAAAATCCTAAATTCAGGATTC
AGAAGCAGAGATTGATGCTCACCTTGTTGCTCTAGCAGAGAGAGACTAAACATTGTCGTTAGTTTACCAGA
GATGCCACTTACCTGTGTGTTTGGTAACAACAAACATCATGGAGGTCCTGGATTGAAAAAGGAGC
TCCCACTCCTCCTACCACCGAAGTGTTAGGACTCTATATAAATAAAAACAAGGCTTTTGAAAAAAAAAAAA
AAAA

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FIGURE 741

MSRGSSAGFDRHITIFSPEGRLYQVEYAFKAINQGGLTSVAVRGKDCAVIVTQKKVPDKLLDSSTVTHLFKITEN
IGCVMTGMTADSRSQVQRARYEAANWKYKYGYEIPVDMLCKRIADISQVYTQNAEMRPLGCCMILIGIDEEQGPQ
VYKCDPAGYYCGFKATAAGVKQTESTSFLEKKVKKKFDWTFEQTVETAITCLSTVLSIDFKPSEIEVGVVTVENP
KFRILTEAEIDAHLVALAERD

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FIGURE 742

TCTCTTGATTCCCTAGTCTCTCGATATGGCACCTCCGTCAGTCTTTGCCGAGGTTCCGCAGGCCAGCCTGTCCTG
GTCTTCAAGCTCACTGCCGACTTCAGGGAGGATCCGGACCCCCGCAAGGTCAACCTGGGAGTGGGAGCATATCGC
ACGGATGACTGCCATCCCTGGGTTTTGCCAGTAGTGAAGAAAGTGGAGCAGAAGATTGCTAATGACAATAGCCTA
AATCACGAGTATCTGCCAATCCTGGGCCTGGCTGAGTTCCGGAGCTGTGCTTCTCGTCTTGCCCTTGGGGATGAC
AGCCAGCACTCAAGGAGAAGCGGGTAGGAGGTGTGCAATCTTTGGGGGGAACAGGTGCACTTCGAATTGGAGCT
GATTTCTTAGCGCGTTGGTACAATGGAACAAACAACAAGAACACACCTGTCTATGTGTCCTACCAACCTGGGAG
AATCACAATGCTGTGTTTTCCGCTGCTGGTTTTAAAGACATTCCGGTCCTATCGCTACTGGGATGCAGAGAAGAGA
GGATTGGACCTCCAGGGCTTCCTGAATGATCTGGAGAATGCTCCTGAGTTCTCCATTGTTGTCTCCACGCCTGT
GCACACAACCCAACTGGGATTGACCCAACTCCGGAGCAGTGAAGCAGATTGCTTCTGTCTATGAAGCACC GGTTT
CTGTTCCCTTCTTTGACTCAGCCTATCAGGGCTTCGCATCTGGAAACCTGGAGAGAGATGCCTGGGCCATTTCGC
TATTTTGTGTCTGAAGGCTTCGAGTCTTCTGTGCCAGTCCTTCTCCAAGAACTTCGGGCTCTACAATGAGAGA
GTCGGGAATCTGACTGTGGTTGGAAAAGAACCTGAGAGCATCCTGCAAGTCCTTTCCAGATGGAGAAGATCGTG
CGGATTACTTGGTCCAATCCCCCGCCAGGGAGCACGAATTGTGGCCAGCACCTCTCTAACCCTGAGCTCTTT
GAGGAATGGACAGGTAATGTGAAGACAATGGCTGACCGGATTCTGACCATGAGATCTGAACTCAGGGCACGACTA
GAAGCCCTCAAAACCCCTGGGACCTGGAACCACATCACTGATCAAATTGGCATGTTTCAGCTTCAGTGGTTGAAC
CCCAAGCAGGTTGAGTATCTGGTCAATGAAAAGCACATCTACCTGCTGCCAAGTGGTCAATCAACGTGAGTGGC
TTAACCACCAAAAATCTAGATTACGTGGCCACCTCCATCCATGAAGCAGTCACCAAAATCCAGTGAAGAAACACC
ACCCGTCCAGTACCACCAAAGTAGTTCTCTGTCTATGTGTGTTCCCTGCCTGCACAAACCTACATGTACATACCAT
GGATTAGAGACACTTGCAGGACTGAAAGCTGCTCTGGTGAGGCAGCCTCTGTTTAAACCGGCCCCACATGAAGAG
AACATCCCTTGAGACGAATTTGGGAGACTGGGATTAGAGCCTTTGGAGGTCAAAGCAAATTAAGATTTTTATTAA
GAATAAAAGAGTACTTTGATCATGAGACATAGGTATCTTGTCCTCTCACTAAAAAGGAGTGTGTGTGTGGCGG
CCACGTGCTTCTATGTGGTGTTTACTCTGTACAAATTCTAGTCCCAAAGATCAAGTTGTCTGAAGGAGCCAAAG
TGTGAATGTGGGTGTCGGCTGCGGCATTAAATTCATCATCTCAACCCAGAGTGTCTGGTCTCCCTGCTCTTTCTG
CATGGTTGTGTCCCTAGTCCTAAGCTTTGGTTCTTTAGGGTGACTGTGGTAAGAAGGATATTTAATCATGACATG
CACGGACACGTACATATTTAACTGAAACAAGTTTTACCAACAGTATTTACTCGTGATGTGCGTAGTGCATTCTG
ATATTTTGTAGCCATTCTATTGTGTTCTACTTCACCTAAAAAATAAAATAAAATGTTGATCAAG

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FIGURE 743

MAPP SVFAEVPQAQPVLVFKLTADFREDPDPRKVN LGVGAYRTDDCHPWVLPVVKKVEQKIANDNSLNHEYLPIL
GLAEFRSCASRLALGDDSPALKEKRVGGVQSLGGTGALRIGADFLARWYNGTNNKNTPVYVSSPTWENHNAV FSA
AGFKDIRSYRYWDAEKRGDLQGF LNDLENAPEFSIVVLHACAHNPTGIDPTPEQWKQIASVMKHRFLFPFFDSA
YQGFASGNLERDAWAI RYFVSEGFEFFCAQSFSKNFGLYNERVGNLTVVGKEPESILQVLSQMEKIVRITWSNPP
AQGARIVASTLSNP ELFEEWTGNVKT MADRILTMRSELRARLEALKTPGTWNHITDQIGMFSFTGLNPKQVEYLV
NEKHIYLLPSGRINV SGLTTKNLDYVATSIHEAVTKIQ

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FIGURE 744

GCACGAGCTGCGGCTCCGCTCTCGTCGCAACGAGATCTTTTCGAGATCTTCTCCGCCCCGCTACCGGCGCCTCCT
CTGCGGCCACTGAGCCGGAGCCGGCCTGAGCAGCGCTCTCGGTTGCAGTACCCACTGGAAGGACTTAGGCGCTCG
CGTGACACCGCAAGCCCCTCAGTAGCCTCGGCCAAGAGGCCTGCTTTCCACTCGCTAGCCCCGCCGGGGTCCG
TGTCTGTCTCGGTGGCCGGACCCGGGCCCCGAGCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCATAGACC
TGGGCTTCCAGAGCTGCTACGTCGCTGTGGCCCCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAGCGACC
GCTGCACGCCGGCTTGCAATTTCTTTGGTCCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGTAATTT
CTAATGCAAAGAACACAGTCCAAGGATTTAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGAGGCAG
AAAAATCTAACCTTGCAATATGATATTGTGCAGTTGCCTACAGGATTAACAGGTATAAAGGTGACATATATGGAGG
AAGAGCGAAATTTTACCACTGAGCAAGTGACTGCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAGTGTTT
TTAAGAAGCCTGTAGTTGACTGTGTTGTTTCGGTTCCTTGTTTCTATACTGATGCAGAAAGACGATCAGTGATGG
ATGCAACACAGATTGCTGGTCTTAATTGCTTGCGATTAATGAATGAAACCACTGCAGTTGCTCTTGCAATATGGAA
TCTATAAGCAGGATCTTCTGCCTTAGAAGAGAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTCTGCTT
ATCAAGTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTTGACACGACATTGGGAG
GTAGAAAATTTGATGAAGTGTTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACATTAAGT
CCAAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGCTTCAG
ATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAATATGAATAGAGGCAAATTTCTGG
AGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCACTTCGTAGTGTTTTGGAACAAACCAAGTTAAAGAAAG
AAGATATTTATGCAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAAATTTT
TCGGTAAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGCCATCT
TATCGCTGCTTTCAAAGTCAGAGAATTTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATGGAATT
CTCCAGCTGAAGAAGGGTCAAGTGACTGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGTTCTTA
CATTTTATAGAAAGGAACCTTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGATCCTG
CTATAGCTCAGTTTTTCAGTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAAGTGAAAGTCAAAGTTC
GAGTAAATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTTAGTGGAGGTTTACAAGTCTGAGGAAAATGAGG
AGCCAATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCATGTTGAAG
AGCAACAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATCCAAGG
ATAAAAAGATGGACCAACCACCCCAAGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAATCGAGA
ATCAGCTATTATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCATGCAGG
ATAAACTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGAGGGAATATGTGTATGAAATGAGAGACAAGCTTA
GTGGTGAATATGAGAAGTTTGTGAGTGAAGATGGTCGTAACAGTTTTACTTTGAACTGGAAGATACTGAAAATT
GGTTGTATGAGGATGGAGAAGACCAGCCAAAGCAAGTTTATGTTGATAAGTTGGCTGAATTAATAAATCTAGGTC
AACCTATTAAGATACGTTTCCAGGAATCTGAAGAACGACCAAAATTATTTGAAGAACTAGGGAAACAGATCCAAC
AGTATATGAAAATAATCAGCTCTTTCAAAAACAAGGAGGACCAGTATGATCATTGGATGCTGCTGACATGACAA
AGGTAGAAAAAAGCACAAATGAAGCAATGGAGTGGATGAATAACAAGCTAAATCTGCAGAACAAGCAGAGTTTGA
CCATGGATCCAGTTGTCAAGTCAAAAGAGATTGAAGCTAAAATTAAGGAGCTGACAAGTACTTGTAGCCCTATAA
TTTCAAAGCCCCAAACCCAAAGTGGAACCTCCAAAAGAGGAACAAAAAATGCAGAGCAGAATGGACCAGTGGATG
GACAAGGAGACAACCCAGGCCCCAGGCTGCTGAGCAGGGTACAGACACAGCTGTGCCTTCGGATTGAGACAAGA
AGCTTCCTGAAATGGACATTGATTGATTCCAACACTTGTTTCTATTAAACAGACTATTATAAA

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FIGURE 745

MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAKSQVISNAKNTVQGFKRFHGRAF
SDPFVEAEKSNLAYDIVQLPTGLTGIVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPFCFYTD
AERRSVM DATQIAGLNCLRLMNETTAV ALAYGIYKQDLPAL EEEKPRNVVFVDMGHSAYQVSVCAFNRGKLVLAT
AFDTTLGGRKFDEVLVNHFC EEF GK KYKLDIKSKIRALLRLS QECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPA FKVREFSITDVVPYPI SLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYPDP AIAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSASLVEVHKSEENE EPMETDQNAKEEEKMQVD
QEEPHVEEQQQTPAENKA ESEEMETSQAGSKDKKMDQPPQAKKAKVKTSTVDLP IENQLLWQIDREMLNLY IEN
EGKMIMQDKLEKERND AKN AVREYVYEMRDKLSGEYEKFVSEDGRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQ ESEERPKLFEELGKQIQQYMKI ISSFKNKEDQYDHLDAADMTKVEKSTNEAMEWMNNKLN
LQNKQSLTMDPVVKSKEIEAKIKELTSTCSP IISKPKPKVEPPKEEQKNAEQNGPVDGQGDNP GPQAAEQGTDTA
VPSDSK KLP EMDID

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FIGURE 746

GCCTTTTTTGCAGTCTCAGGACGGGCGCTTTGGAGCCGGCCCCAGGCAGCGTGTGTCGGTCGCCTAGTCTGGAGA
ACTAGTCCTCGACTCACGGTGAGGGAATGGACCGACACGGGTATTGTACCGCTGAGGGAAAGGAGCGGGACTCCG
GACCTCCAGGAGTGCAAGGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGACCCTGG
GCGTTTTTTACACATGGGGACCCAGGCTCGCCAAAGCATTGCTGCTCACCTAGATAACCAGGTTCCAGTTGAGAG
JAGAGCTATTTCCCGCACCAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGAGGGTCAGCACTACAA
TCCCCCAGGATTTGGGAGACTGTATTTCCCATGGCCTTCCTCCTCGCTTTGTGATGCAGGTGAAGACATT
TGAAGCTTGCTGATGGTAAGGAAACCAGCCCTAGAATTCTGCATTACCTGAAAAACACCAGTTTTGCTTA
1. CAGCTATACGATATCTTCTGTATGGAGAGAAGGGAACAGGAAAAACCCCTAAGTCTTTGCCATGTTATTCATTT
TGCAAAACAGGACTGGCTGATACTACATATTCAGATGCTCATCTTTGGGTGAAAAATTGTCGGGATCTTCT
ATCCAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTGGCTGAAGAATTTCAAACACTAC
TAGAGCGCTTCCTGAACCAGATAAAAGTTCAAGAGAAGTATGTCTGGAATAAGAGAGAAAGCACTGAGAAAGG
TCTCTCGGGAGAAAGTGTTGAACAGGGCATAACACGGGTGAGGAACGCCACAGATGCAGTTGGAATTGTGCT
TAAGAGCTAAAGAGGCAAAGTTCTTTGGGTATGTTTTACCTCCTAGTGCCGTGGATGGAATCAATGCTCTTTG
GGAAGAACCACTCTGAAAAGAGAAGATAAAAGCCCGATTGCCCCGAGGAATTAGCACTTGTTCACAACTTGAG
GAAAATGATGAAAAATGATTGGCATGGAGGCGCCATTGTGTGCGCTTTGAGCCAGACTGGGTCTCTCTTTAAGCC
CCGGAAAGCCTATCTGCCCCAGGAGTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATTCCCATCCT
GGTTTCCAACATAACCCAAAGGAATTTGAAAGTTGTATTTCAGTATTATTTGGAAAACAATTGGCTTCAACATGA
GAAAGCTCCTACAGAAGAAGGGAAAAAAGAGCTGCTGTTCCCTAAGTAACGCGAACCCTCGCTGCTGGAGCGGCA
CTGTGCCTACCTCTAAGCCAAGATCACAGCATGTGAGGAAGACAGTGGACATCTGCTTTATGCTGGACCCAGTAA
GATGAGGAAGTCGGGCAGTACACAGGAAGAGGAGCCAGGCCCTTGACCTATGGGATTGGACAGGACTGCAGTTG
GCTCTGGACCTGCATTAAATGGGTTTTCACTGTGAATGCGTGACAATAAGATATTCCCTTGTTTCTAAACTTTA
TATCAGTTTATTGGATGTGTTTTTACATTTAAGATAATTATGGCTCTTTTCCTAAAAAATAAAATATCTTTCT

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FIGURE 747

MMLKGITRLISRIHKLDPGRFLHMGTOARQSIAAHLDNQVPVESPRAISR TNENDPAKHGDQHEGQHYNISPQDL
ETVFP HGLPPREFVMQVKT FSEACLMVRKPALELLHYLKNTSFAYPAIRYLLYGEKGTGKTL SLCHVIHFCAKQDW
LILHIPDAHLWVKNCRDLLQSSYNKQRFDO PLEASTWLKNFKTTNERFLNQIKVQEKYVWNKRESTEKGSPLGEV
VEQGITRV RNATDAVGIVL KELKRQSSLGMFHLLVAVDGINALWGRTTLKREDKSPIAPEELALVHNLRKMMKND
WHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDALDPFIPILVSNYNPKEFESCIQYYLENNWLQHEKAPTEE
GKKELFLSNANPSLLERHCAYL

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FIGURE 748

ATGACGAAGAACGAGAAGAAGTCCCTCAACCAGAGCCTGGCCGAGTGGAAGCTCTTCATCTACAACCCGACCACC
GGAGAATTCCTGGGGCGCACCGCCAAGAGCTGGGGTTTGATCTTGCTCTTCTACCTAGTTTTTTATGGGTTCCCTG
GCTGCACTCTTCTCATTACGATGTGGGTTATGCTTCAGACTCTCAACGATGAGGTTCCAAAATACCGTGACCAG
ATTCCTAGCCCAGGACTCATGGTTTTTCCAAAACCAAGTACCGCATTGGAATATACATTACAGTAGGTTCTGATCCA
ACTTCGTATGCAGGGTACATTGAAGACCTTAAGAAGTTTCTAAAACCATATACTTTAGAAGAACAGAAGAACCTC
ACAGTCTGTCCTGATGGAGCACTTTTTGAACAGAAGGGTCCAGTTTATGTTGCATGTCAGTTTCCTATTTTCATTA
CTTCAAGCATGCAGTGGTATGAATGATCCTGATTTTGGCTATTCTCAAGGAAACCCCTTGATTCTTGTGAAAATG
AACAGAATAATTGGATTAAAGCCTGAAGGAGTGCCAAGGATAGATTGTGTTTCAAAGAATGAAGATATACCAAAT
GTAGCAGTTTATCCTCATAATGGAATGATAGACTTAAAATATTTCCCATATTATGGGAAAAAACTGCATGTTGGG
TATCTACAGCCATTGGTTGCTGTTTCAGGTCAGCTTTCCTCCTAACAACTGGGAAAGAAGTAACAGTTGAGTGC
AAGATTGATGGATCAGCCAACCTAAAAAGTCAGGATGATCGTGACAAGTTTTTGGGACGAGTTATGTTCAAAATC
ACAGCACGTGCATAGTATGAGTAGGATATCTCCACAGAGTAAATGTTGTGTTGTCTGCTCTTCATTTTGTAACAGC
TGGACCTTCCATTCTAGAATTATGAGACCACCTTGGAGAAAGGTGTGTGGTACATGACATTGGGTTACATCATAA
CGTGCTTCCAGATCATAGTGTTCAGTGTCCCTCTGAAGTAACTGCCTGTTGCCTCTGCTGCCCTTTGAACCAGTGT
ACAGTCGCCAGATAGGGACCGGTGAACACCTGATTCCAAACATGTAGGATGGGGGTCTTGTCTCTTTTTATGTG
GTTTAATTGCCAAGTGTCTAAAGCTTAATATGCCGTGCTATGTAAATATTTTATGGATATAACAACTGTCATATT
TTGATGTCAACAGAGTTTTAGGGATAAAATGGTACCCGGCCAACATCAAGTGACTTTATAGCTGCAAGAAATGTG
GTATGTGGAGAAGTTCTGTATGTGAGGAAGGAAAAAAGAAAATAAAAGTGTGTTTGAAAAATATTATCTTGGGT
TCTTTGTAAATTTATTTTTTACATGCTGAATTAGCCTCGATCTTTTTTGATTAAAGAGCACAACTTTTTTTTGTA
AAACATGTAAAAAATAAACTGGGATTAAATTTTTAGTGTGGAACTGCCTCTTATTTTAGGCTGTAGATAAAATA
GCATTTTTAGGTTAGCCAGTGTGACTATGCACCTAATTTTTATGAGATTAAATTCATAAGACTTAATTTGTACA
ATAGTTTGTGAAATATCTTGTACTGCTTTTATTTAGCAGACTGTGGACTGTAATAAAGTATATAAATTGTGAAA
TATAAAAACCTTGGAACTTATTCAAAGCTT

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FIGURE 749

MTKNEKKSLNQSLAEWKLF IYNPTTGEFLGRTAKSWGLILLFYLVFYGF LAALFSFTMWVMLQTLNDEVPKYRDQ
IPSPGLMVFPKPVIALEYTFSRSDPTSYAGYIEDLKKFLKPYTLEEQKNLTVCPDGALFEQKGPVYVACQFPISL
LQACSGMNDPDFGYSQGNPCILVKMNRI IGLKPEGVPRIDCVSKNEDIPNVAVYPHNGMIDLKYFPYYGKKLHVG
YLQPLVAVQVSFAPNNTGKEVTVECKIDGSANLKSQDDRDKFLGRVMFKITARA

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FIGURE 750

GAATTCGCTTTGGATCCATTTCCATCGGTCCTTACAGCCGCTCGTCAGACTCCAGCAGCCAAGATGGTGAAGCAG
ATCGAGAGCAAGACTGCTTTTCAGGAAGCCTTGGACGCTGCAGGTGATAAACTTGTAGTAGTTGACTTCTCAGCC
ACGTGGTGTGGGCCTTGCAAAATGATCAACCCCTTCTTTCATTCCCTCTCTGAAAAGTATTCCAACGTGATATTC
CTTGAAGTAGATGTGGATGACTGTCAGGATGTTGCTTCAGAGTGTGAAGTCAAATGCACGCCAACATTCCAGTTT
TTTAAGAAGGGACAAAAGGTGGGTGAATTTTCTGGAGCCAATAAGGAAAAGCTTGAAGCCACCATTAATGAATTA
GTCTAATATGTTTTCTGAAAACATAACCAGCCATTGGCTATTTAACTTGTATTTTTTTATTTACAAAATATAA
ATATGAAGACATAACCAGTTGCCATCTGCGTGACAATAAACATTATGCTAA

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FIGURE 751

MVKQIESKTAFQEALDAAGDKLVVDFSATWCGPCKMINPFFHSLSEKYSNVIFLEVDVDDCQDVASECEVKCTP
TFQFFKKGQKVGEFSGANKEKLEATINELV

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FIGURE 752

GGGAGAGAGTGGGGACGTCCGGCTTCGGAGCGGGAGTGTTCGTTGTGCCAGCGACTAAAAAGAGAATTAAATAT
GGTGATGTTGAGAAAGGCAAGAAGATTTTTATTATGAAGTGTCCAGTACCACACCGTTGAAAAGGGAGGCAA
GCACAAGACTGGGCCAAATCTCCATGGTCTCTTTGGGCGGAAGACAGGTCAGGCCCTGGATACTTTACACAGC
CGCCAATAAGAACAAAGGCATCATCTGGGGAGAGGATACACTGATGGAGTATTTGGAGAATCCAAGAAGTACAT
GGAAACAAAATGATCTTTGTCGGCATTAAAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAAAAA
CTAATGAGTAATAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTTATGTGT
ATCCTTTAATAGATCTCATAACACCAGAATTCAGATCATGAATGACTGACAGAATATTTGTTGGGCAGTCCT
GTTTAAAACTAAGACTGGCTTGTGGTTAAATGAATATGTTTCAGTTTTTGAATTTAATAGTAACTCCAATTCAG
AATGGTATCACTGTTTACCCCTTTTAAAGATATGATTAGACTTCGTTAGTAATGTTCAACTTTTCACAAAGAT
AGTGCCATCTTAAACTTACTGGAGATTGGTTTATATTTAGATTTATATACTGGTTATGTGAATATATT
TACTGGGGAAATTGCTTCACTGTCTTAGAACCAAGCAAGATTCACCTGTGTTTTGTGTTCAITTCATTG
TTAAAGGCAAGGGTTGAAGATAAATAAGGTAGCAATGTCTATAGTTTTGGCCTTAACATGCCAATCTAAT
AATTCCTGTATTTAAATGGTTTCTTTACTTATTGAAAGGCATTTTAGTGIGGTTTATGTGTAATATTAA
AATATTCAACACCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 753

MGDVEKGKKIFIMKCSQYHTVEKGGKHKGTGPNLHGLFGRKTGQAPGYSYTAANKNKGI IWGEDTLMEYLENPKKY
IPGTMIFVGIKKKEERADLIAYLK KATNE

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FIGURE 754

CCGGCGGCGCCTCAGGTCGCGGGGCGCCTAGGCCTGGGTTGTCCTTTGCATCTGCACGTGTTTCGCAGTCGTTTCC
GCGATGCTGCCTCTGCTGCGCTGCGTGCCCCGTGTGCTGGGCTCCTCCGTCGCCGGGCTCCGCGCTGCCGCGCCC
GCCTCGCCTTTCCGGCAGCTCCTGCAGCCGGCACCCCGGCTGTGCACCCGGCCCTTCGGGGCTGCTCAGCGTGCGC
GCAGGTTCCGAGCGGCGGGCGGGCCTCCTGCGGCCTCGCGGACCTGCGCCTGTGGCTGTGGCTGCGGCTCGCTG
CACACCGACGGAGACAAAGCTTTTGTGATTTTCTGAGTGATGAAATTAAGGAGGAAAGAAAAATTCAGAAGCAT
AAAACCTCCCTAAGATGTCTGGAGGTTGGGAGCTGGAATGAATGGGACAGAAGCGAAATTAGTGCAGGAAAGTT
GCCGGGGAAAAATCACGGTCACTTTCAACATTAACAACAGCATCCCACCAACATTTGATGGTGAGGAGGAACCC
TCGCAAGGGCAGAAGGTTGAAGAACAGGAGCCTGAACTGACATCAACTCCCAATTTCTGTGGTTGAAGTTATAAG
AATGATGATGGCAAGAAGGCCCTTGTGTTGGACTGTCATTATCCAGAGGATGAGGTTGGACAAGAAGACGAGGCT
GAGAGTGACATCTTCTCTATCAGGGAAGTTAGCTTTCAGTCCACTGGCGAGTCTGAATGGAAGGATACTAATTAT
ACACTCAACACAGATTCCTTGGACTGGGCCTTATATGACCACCTAATGGATTTCTTGGCCAGCAGGGGTGGAC
AACACTTTTGCAGATGAGCTGGTGGAGCTCAGCACAGCCCTGGAGCACCAGGAGTACATTACTTTTCTTGAAGAC
CTCAAGAGTTTTGTCAAGAGCCAGTAGAGCAGACAGATGCTGAAAGCCATAGTTTCATGGCAGGCTTTGGCCAGT
GAACAAATCCTACTCTGAAGCTAGACATGTGCTTTGAAATGATTATCATCCTAATATCATGGGGGAAAAAATACC
AAATTTAAATTATATGTTTTGTGTTCTCATTATATTATCATTTTTTCTGTACAAATCTATTATTTCTAGATTTTT
GTATAACATGATAGACATAAAATTGGTTTATCTCCTCCGCTGAGTCTTCCTAGAAGTACCTGCTGGGTTCTCAGT
TCCAGTTCCCATCCTTTGATTGATCACTCTCCCTGACATCCACCTGTATGACTTTGTCACCAAATGCTGTCTTCT
CTTCTCCAATCAAGAAATAATAATCCCTCGAGTTTACAAAACAAAAAAAAAAAAA

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FIGURE 755

MLP LLRCVPRVLGSSVAGLR AAAPSPFRQLLQPAPRLCTRPFGLLSVRAGSERRPGLLRPRGPCACGCGGSLH
TDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIPPTFDGEEEPS
QGQKVEEQEP ELTSTPNFVVEVIKNDDGKKALVLDCHYPEDEVGQEDAE SDIFSIREVSFQSTGESEWKDTNYT
LNTDSL DWALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLEDLKS FVKSQ

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FIGURE 756

TGGACTTGGATCCGAGGCAGACGAGGAAGCTGAGAAAACCTGGCGTTGACCCCGTGGACCTGGGCGCCCCGGGA
AGGTCCAGCGCTTGGTCCAGGCAGGCGGGGATGTGCGGTGACCACCCTGGTCCTGAAAAGTCCAGCCCCGAATCT
CCCTCCCTCCTAGACCTGGAGGCCTGGAACAGCCAGCCGCCACGGACGCCAGAGCCGGGAACCCTGACGGCACT
TAGCTGCTGACAAACAACCTGCTCCGTGGACGCTGAAAACACCACTCTTGGGGCCAGTGCCTCAGTTTCAATCC
AGGTAACCTTTAAATGAACTTGCCTAAAATCTTAGGTCATACACAGAAGAGACTCCAATCGACAAGAAGCTGGA
AAAGAATGATGTTGTCCTTAAACAACCTACAGAATATCATCTATAACCCGGTAATCCCGTATGTTGGCACCATT
CCGATCAGCTGGATCCTGGAACCTTGATTGTGATATGTGGGCATGTTCTAGTGACGCAGACAGATTCCAGGTGG
ATCTGCAGAATGGCAGCAGTGTGAAACCTCGAGCCGATGTGGCCTTTCAATTCCTCGTTTCAAAGGGCCG
GCTGCATTGTTTGCAATACTTTGATAAATGAAAAATGGGGACGGGAAGAGATCACCTATGACACGCCTTTCAAAA
GAGAAAAGTCTTTTGAGATCGTGATTATGGTGCTAAAGGACAAATTCCAGGTGGCTGTAAATGGAAAACATACTC
TGCTCTATGGCCACAGGATCGGCCCAGAGAAAATAGACACTCTGGGCATTTATGGCAAAGTGAATATTTCACTCAA
TTGGTTTTAGCTTCAGCTCGGACTTACAAAGTACCCAAGCATCTAGTCTGGAAGTACAGAGATAAGTAGAGAAA
ATGTTCCAAAGTCTGGCACGCCCCAGCTTCAGACTGTCTCTCCCTCCTGGGATTTACAGGGTCATGGCTCTGAAA
CATTCTGTAGTGTTCTTTGGACACGAGTTTTCTGGAGATCGCTTTCTGCAGGCCTATTGGTCTGACTGTGGCTT
CTTTTCAGAGCCTGCCATTGCTGCAAGGTTGAACACCCCATGGGCCCTGGACGAAGTGTCTGCTTAAAGGAG
AAGTGAATGCAAATGCCAAAAGCTTTAATGTTGACCTACTAGCAGGAAAATCAAAGGATATTGCTCTACACTTGA
ACCCACGCCTGAATATTAAAGCATTTGTAAGAAATCTTTTCTTCAGGAGTCTGGGGAGAAGAAGAGAGAAATA
TTACCTCTTTCCCATTTAGTCTGGGATGTACTTTGAGATGATAATTTACTGTGATGTTAGAGAATTCAGGTTG
CAGTAAATGGCGTACACAGCCTGGAGTACAAACACAGATTTAAAGAGCTCAGCAGTATTGACACGCTGGAAATTA
ATGGAGACATCCACTTACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTACAAAAACCAAATACAGA
ATGGCTTCTGTGATACTGGCCTTGCTGAAACGCATCTCACTGTCTATTCTATTGTTTATATTGTTAAAATGAGCTT
GTGCACCATTAGATCCTGCTGGGTGTTCTCAGTCTTGCCATGAAGTATGGTGGTGTCTAGCACTGAATGGGGAA
ACTGGGGGCAGCAACACTTATAGCCAGTTAAAGCCACTCTGCCCTCTCTCCTACTTTGGCTGACTCTTCAAGAAT
GCCATTCAACAAGTATTTATGGAGTACCTACTATAATACAGTAGCTAACATGTATTGAGCACAGATTTTTTTTGG
TAAACTGTGAGGAGCTAGGATATATACTTGGTGAAACAAACCAGTATGTTCCCTGTTCTCTTGAGCTTCGACTC
TTCTGTGCTCTATTGCTGCGCACTGCTTTTTCTACAGGCATTACATCAACTCCTAAGGGGTCTCTGGGATTAGT
TAAGCAGCTATTAAATCACCCGAAGACACTAATTTACAGAAGACACAACCTCCTTCCCCAGTGATCACTGTCATAA
CCAGTGCTCTACCGTATCCCATCACTGAGGACTGATGTTGACTGACATCATTTTTATCGTAATAAACATGTGGCTC
TATTAGCTGCAAGCTTTACCAAGTAATTGGCATGACATCTGAGCACAGAAATTAAGGCAAAAAACCAAAGCAAAA
CAAATACATGGTGCTGAAATTAACCTTGATGCCAAGCCCAAGGCAGCTGATTTCTGTGTATTGAACTTAGGGCAA
ATCAGAGTCTACACAGACGCCTACAGAAAGTTTCAGGAAGAGGCAAGATGCATTCAATTTGAAAGATATTTATGG
GCAACAAAGTAAGGTCAGGATTAGACTTCAGGCATTCTAAGGCAGGCACTATCAGAAAGTGTACGCCAACTAAG
GGACCCACAAAGCAGGCAGAGGTAATGCAGAAATCTGTTTTGTTCCTATGAAATCACCATCAAGGCCTCCGTTT
TTCTAAAGATTAGTCCATCATCATTAGCAACTGAGATCAAAGCACTCTTCCACTTTACGTGATTAAATCAAACC
TGATACAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 757

MLSLNNLQNI IYNPVI PYVGTIPDQLDPGTLIVICGHVPSDADRFQVDLQNGSSVKPRADVAFHFNPRFKRAGCI
VCNTLINEKWGREEITYDTPFKREKSFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGKVNIHSIGF
SFSSDLQSTQASSLELTEISRENVPKSGTPQLQTVSPSWDLQGHGSETFCSVLWTRVFLEIAFCRPIGLTVASFQ
SLPFAARLNTPMGPGRTVVVKGEVNANAKSFNVDLLAGKSKDIALHLNPRLNIAFVRNSFLQESWGEEERNITS
FPFSPGMYFEMIIYCDVREFKVAVNGVHSLEYKHRFKELSSIDTLEINGDIHLLEVRWS

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FIGURE 758

GGCGGCGGCGGCTCCCGCAGGCGCCGAGGCGAGGCGAGCCCCGGCCCCAGGCGCCCGGGCCCCGCGCGCCCG
CGCGCGGCGCGGCATTTTATTAGGCGACGCTTAAGGGAGCCGGCCGCGCCCGGTGCATTGTGGGAGGCCCGCGG
CCGTTTTTCGGGAGGAAGGCGGAGGGGCCAAAGCGAGCCGGTGGATCCATAAAGAACCCAGCCAACCCGCAAGAGG
AGGGGAGGGGCTGAGCTGTGAGGAGAGCGGGGCCAAAGAACCATGTCTACGCGGGAGTCCTTTAACCCGGAAGT
GAATTGGACAAAAGCTTCCGGCTAACCAGATTCACTGAAGTGAAGGGCACAGGCTGCAAAGTGCCCCAAGAT
TGCAAAAATTGCTGGAATCTTTACAGGAGAACCCTTCCAAGAAGATGAGCAGTTTCTGGGAGCCGTTATG
AAGGCTTGGCATTGGAATGGATACTTGTGTCATTCTTTGAGGCACGGTGGGCTTTCTTGGTTCAAACCACA
ATTACATTTACCCGATCGTAGACGACCCCTTACATGATGGGCAGGATAGCGTGTGCCAATGTCCTCAGTGACCTC
TGCAATGGGGGTCACGGAATGTGACAATATGCTGATGCTCCTTGGAGTCAGTAATAAAATGACCGACAGGGAA
GATAAAGTGATGCCTCTGATTATCCAAGGTTTTAAAGACGCAGCTGAGGAAGCAGGAACGTCTGTAACAGGC
CAACAGTACTAAACCCCTGGATTGTCTTGGGAGGAGTGGCTACCCTGTCTGCCAACCCAATGAATTTATC
CAGACAATGCAGTGCCAGGGGACGTGCTGGTGCTGACAAAACCCCTGGGGACACAGGTGGCAGTGGCTGTG
CAGTGGCTGGATATCCCTGAGAAATGGAATAAGATTAACTAGTGGTCACCCAAGAAGATGTAGAGCTGGCC
ACAGGAGGCGATGATGAACATGGCGAGGCTCAACAGGACAGCTGCAGGACTCATGCACACGTTCAATACCCAC
GCGCCACTGACATCACGGGCTTCGGGATTTGGGCCATGCGCAGAACCTGGCCAAGCAGCAGAGGAACGAGGTG
TCGTTTGTAAATCACAACCTCCCGGTGCTGGCCAAGATGGCTGCGGTGAGCAAGGCCTGCGGAAACATGTTCCGC
CTCATGCACGGGACCTGCCCCGAGACTTCAGGCGGCCTTCTGATCTGTTTACCACGTGAGCAAGCAGCTCGGTT
TGTGCAGAGATAAAGTCCCCCAAATATGGTGAAGGCCACCAAGCATGGATTATTGGGATTGTAGAGAAGGGCAAC
CGCACAGCCAGAATCATAGACAAACCCCGGATCATCGAGGTGCGACACAAGTGGCCACTCAAAACGTGAATCCCA
CACCCGGGGCCACCTCTTAATCTAGACAGAAATAGCTGTTTGGTTTTGTTTTTAAATAGATCTATTTCCCTTATC
ACTTCAATTAAAGACTATAAAACAACAAAAATCTCATTGTGTCTACACATCGGGGTGACCTTAGGTCGGTTTGTA
GTGGATACAATTAATAAAATAAAATCCATTGCCTTTTTTCTGTTACATTAAGTGAAGATCGACCTAATCTTGA
GGCAGCTTCTGAGTTGAGAATT

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FIGURE 759

MSTRESFNPESYELDKSFRLTRFTELKGTGCKVPQDVLQKLLSLQENHFQEDEQFLGAVMPRLGIGMDTCVIPL
RHGGLSLVQTTDYIYPIVDDPYMMGRIACANVLSPLYAMGVTECDNMLMLLGVS NKMTDRERDKVMPLIIQGFKD
AAEEAGTSVTGGQTVLNPWIVLGGVATTVCQPNFIMPDNAVPGDVLVLT KPLGTQVAVAVHQWLDIPEKWNKIK
LVVTQEDVELAYQEAMNMARLNRTAAGLMHTFNTHAATDITGFGILGHAQNLAKQQRNEVSFVIHNL PVLAKMA
AVSKACGNMFGLMHGTCPETSGGLLICLPREQAARFCAEIKSPKYGEGHQAWIIGIVEKGNRTARIIDKPRIIEV
AHKWPLKT

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FIGURE 760

TCTCCCTCCGCCTCCCGAGCACCAGCGGCTCTGAGCTGCCCCAGGGTCCCTCCCCCGCCGCCAGCAGCCCATT
TGGAGGGAGGAAGTAAGGGAAGAGGAGAGGAAGGGGAGCCGGACCGACTACCCAGACAGAGCCGGTGAATGGGTT
TGTGGTGACCCCGCCCCCACCCACCCCTCCCTTCCACCCGACCCCAACCCCATCCCCAGTTTCGAGCCGCC
GCCCCGAAAGGCCGGGCGCTCGTCTTAGGAGGAGTGC CGCGCCGCCACCTCCGCCATGGAGCTGATCACCATTTC
TCGAGAAGACCGTGTCTCCCGATCGGCTGGAGCTGGAAGCGGCGCAGAAGTTCCTGGAGCGTGC GGCGCTGGAGA
ACCTGCCCACCTTTCCTTGTGGAAGTGTCCAGAGTGTCTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAG
CTGGTCTACAAATCAAGAACTCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTG
CTATTGATGCTAATGCTCGACGAGAAGTCAAGAACTATGTTTGCAGACATTGGGTACAGAACTTACCGGCCTA
GTTCTGCCTCACAGTGTGTGGCTGGTATTGCTTGTGCAGAGATCCAGTAAACCAGTGGCCAGAACTCATTCCCTC
AGCTGGTGGCCAATGTACAAACCCCAACAGCACAGAGCACATGAAGGAGTCGACATTGGAAGCCATCGGTTATA
TTTGCCAAGATATAGACCCAGAGCAGCTACAAGATAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGA
GGAAAGAAGAGCCTAGTAATAATGTGAAGCTAGCTGTACGAATGCACTCCTGAACTCATTGGAGTTCACCAAAG
CAAACCTTTGATAAAGAGTCTGAAAGGCACTTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGA
GGGTACGAGTGGCTGCTTTACAGAACTCTGGTGAAGATAATGTCCTTATATTATCAGTACATGGAGACATATATGG
GTCCTGCTCTTTTTGCAATCACAATCGAAGCAATGAAAAGTGACATTGATGAGGTGGCTTTACAAGGGATAGAAT
TCTGGTCCAATGTCTGTGATGAGGAAATGGATTGGCCATTGAAGCTTCAGAGGCAGCAGAACAAGGACGGCCCC
CTGAGCACACCAGCAAGTTTTATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCCTCACACAGACACTAATA
AACAGGACGAAAATGATGATGACGATGACTGGAACCCCTGCAAAGCAGCAGGGGTGTGCCTCATGCTTCTGGCCA
CCTGCTGTGAAGATGACATTGTCCCATGTCTCCCTTCATTAAAGAACACATCAAGAACCCAGATTGGCGGT
ACCGGGATGCAGCAGTGTGGCTTTTGGTTGTATCTTGAAGGACCAGAGCCAGTCAGCTCAAACCACTAGTTA
TACAGGCTATGCCCCACCTAATAGAATTAATGAAAGACCCAGTGTAGTTGTTTCGAGATACAGCTGCATGGACTG
TAGGCAGAATTTGTGAGCTGCTTCTGAAAGTGCCTCAATGATGTCTACTTGGCTCCCTGCTACAGTGTCTGA
TTGAGGGTCTCAGTGTGAACCCAGAGTGGCTTCAAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGCTGCTT
ATGAAGCTGCAGACGTTGCTGATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTTCATTTGAACTCATAG
TTCAGAAGCTCCTAGAGACTACAGACAGACCTGATGGACACCAGAACAACCTGAGGAGTTCTGCATATGAATCTC
TGATGGAAATTGTGAAAAACAGTGCCAAGGATTGTTATCCTGCTGTCCAGAAAACGACTTTGGTTCATCATGGAAC
GACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTTCAATGACCTTCAGT
CTTTACTCTGTGCAACTCTTCAGAAATGTTCTTCGGAAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGG
TTATGGCCTCCCTGTTAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAG
TTAGCACACTGGTGGAAAGTGTGGGTGGTGAATTCCTCAAGTACATGGAGGCCTTTAAACCCCTCCTGGGCATTG
GATTAAAAAATTATGCTGAATACCAGGTTTGTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGC
AATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGAATAATTTGGGGAATGAGAAGCTCCACA
GGTCTGTGAAGCCGCAGATTCTGTGAGTGTGGTGATATTGCCCTTGCTATTGGAGGAGAGTTAAAAAATACT
TAGAGGTTGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCCAGGTGGACAAGTCAGACTATGACATGGTGGATT
ATCTGAATGAGCTAAGGGAAAGCTGCTTGAAGCCTATACTGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGA
ACGTACACCCGGATGTGATGCTGGTACAACCCAGAGTAGAATTTATTCTGTCTTTCATTGACCACATTGCTGGAG
ATGAGGATCACACAGATGGAGTAGTAGCTTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTGTTGGGAAGG
ATGTACTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTTAACTGAAGGGCGGAGATCGAAGACTAACA
AAGCAAAAACCCCTTGCTACATGGGCAACAAAAGAACTGAGGAACTGAAGAACCAAGCTTGATCTGTTACCATTG
GGATGATAACCTGAGGACCCCACTGGAAATCTCCCATCTTTTGA AAAACCTGGAAGTGAGGAGTGTGCACGGAT
GCTGAATGTTTGGGAATGAGAGGATGAGTGAGTGAGGCTTGA AAAACACACCACATTGAAAATCCTGCCACAGCAG
CAGCCGCAGCCGCCAACAGCAGCGCTGTTAGTGAGCTAAGTAAGCACTGACTTCGTAGAAAACCATACATCGGC
CATCTTGGAAAAGAGAAAAACAATGGAGTTACTTATTTAAAAA AAAAAAAAAAAAAAAAAA

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FIGURE 761

MELITILEKTVSPDRLELEAAQKFLERAAVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLTSKDPDIKAQ
YQQRWLAI DANARREVKNYVLQTLGTETYPSSASQCVAGIACAEIPVNQWPELIPQLVANVTNPNSTEHMKEST
LEAIGYICQDIDPEQLQDKSNEILTAIIQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEA
TQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPAIFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA
AEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDWNPCKAAGVCLMLLATCCEDDIVPHVLPFIFEHI
KNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLA
PLLQCLIEGLSAEPRVASNVCWAFSSLAEEAAYEADVADDQEEPATYCLSSSFELIVQKLETTDRPDGHQNNLR
SSAYESLMEIVKNSAKDCYPVQKTTLVIMERLQQVLQMESHIQSTSDRIQFNDLQSLLCATLQNVLRKVQHODA
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFLGIGLKNYAEYQVCLAAVGLVG
DLCRALQSNII PFCDEVMO LLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQVDKS
DYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDL
CTAFGKDV LKLVEARPMIHELLTEGRRSKTNKAKTLATWATKELRKLNQA

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FIGURE 762

GGCACGAGGCTGCTGTTTGTCTACTTCCTCCTGCTTCCCCGCCGCCGCCGCCATCATGAGGGAAATCGTGCA
CTTGACAGGCCGGGCAGTGCGGCAACCAAATCGGCGCCAAGTTTTGGGAGGTGATCAGCGATGAGCACGGCATCGA
CCCCACGGGCACCTACCACGGGGACAGCGACCTGCAGCTGGAACGCATCAACGTGTACTACAATGAGGCCACCGG
CGGCAAGTACGTGCCCCGCGCCGTGCTCGTGATCTGGAGCCCGGCACCATGGACTCCGTGCGCTCGGGGCCCTT
CGGGCAGATCTTCCGGCCGGACAACCTTCGTTTTCGGTCAAGTGGTGCTGGGAACAACCTGGGCCAAGGGGCACTA
CACAGAAGGCGCGGAGCTGGTGGACTCGGTGCTGGATGTTGTGAGAAAGGAGGCTGAGAGCTGTGACTGCCTGCA
GGGTTTTCCAGCTGACCCACTCCCTGGGTGGGGGGACTGGGTCTGGGATGGGTACCCTCCTCATCAGCAAGATCCG
GGAGGAGTACCCAGACAGGATCATGAACACGTTTAGTGTGGTGCCTTCGCCCCAAAGTGTGAGACACAGTGGTGGA
GCCCTACAACGCCACCCTCTCAGTCCACCAGCTCGTAGAAAACACAGACGAGACCTACTGCATTGATAACGAAGC
TCTCTACGACATTTGCTTCAGAACCCTAAAGCTGACCACGCCACCTATGGTGACCTGAACCACCTGGTGTCTGC
TACCATGAGTGGGGTCACCACCTGCCTGCGCTTCCAGGCCAGCTCAATGCTGACCTGCGGAAGCTGGCTGTGAA
CATGGTCCCGTTTTCCCCGGCTGCACTTCTTCATGCCCGGCTTTGCCCCACTGACCAGCCGGGGCAGCCAGCAGTA
CCGGGCGCTGACCGTGCCCGAGCTCAGCCAGCAGATGTTTGATGCCAAGAACATGATGGCTGCCTGCGACCCCCG
CCATGGCCGCTACCTGACGGTTGCCGCGTGTTCAGGGGGCCGATGTCCATGAAGGAGGTGGATGAGCAAATGCT
TAATGTCCAAAACAAAACAGCAGCTATTTTGTGAGTGGATCCCCAACAATGTGAAAACGGCTGTCTGTGACAT
CCCACCTCGGGGGCTAAAAATGTCCGCCACCTTCATTGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCAT
CTCCGAGCAGTTACGGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGACGAGAT
GGAGTTCACCGAGGCCGAGAGCAACATGAATGACCTGGTGTCCGAGTACCAGCAGTACCAGGATGCCACAGCCGA
GGAGGAGGGCGAGTTCGAGGAGGAGGCTGAGGAGGAGGTGGCCTTAGAGCCTTCAGTCACTGGGGAAAGCAGGGAA
GCAGTGTGAACTCTTTATTCCTCCAGCCTGTCTGTGGCCTGTCCCACTGTGTGCACTTGCTGTTTTCCCTGT
CCACATCCATGCTGTACAGACACCACCATTAAGCATTTTCATAGTGAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 763

MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLERINVYYNEATGGKYVPRAVLVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPGQLNADLRKLAVNMVFPFRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDAKNMM
AACDPRHGRYLTVAAVFRGRSMKEVDEQMLNVQNKNSSYFVEWIPNNVKTAVCDIPPRGLKMSATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEEEGEFEEEEEEVA

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FIGURE 764

GGTTTCCGGAGCTGCGGCGGCGCAGACTGGGAGGGGAGCCGGGGGTTCCGACGTCGCAGCCGAGGGAACAAGCC
CCAACCGGATCCTGGACAGGCACCCCGGCTTGGCGCTGTCTCTCCCCCTCGGCTCGGAGAGGCCCTTCGGCCTGA
GGGAGCCTCGCCGCCCCGTCCCCGGCACACGCGCAGCCCCGGCCTCTCGGCCTCTGCCGGAGAAACAGGATGGCCC
AATGGAATCAGCTACAGCAGCTTGACACACGGTACCTGGAGCAGTCCATCAGCTCTACAGTGACAGCTTCCCAA
AGCTGCGGCAGTTTTCTGGCCCCCTTGGATTGAGAGTCAAGATTGGGCATATGCGGCCAGCAAAGAATCACATG
TTTGGTGTTCATAATCTCCTGGGAGAGATTGACCAGCAGTATAGCCGCTTCCTGCAAGAGTCAATGTTC
ATCAGCACAACTACGAAGAATCAAGCAGTTTCTTCAGAGCAGGTATCTTGAGAAGCCAATGGAGATTGCCC
GATTGTGGCCCGGTGCCTGTGGGAAGAATCACGCCTTCTACAGACTGCAGCCACTGCGGCCAGCAAAGGGGGCC
CAACCAACCCACAGCAGCCGTGGTGACGGAGAAGCAGCAGATGCTGGAGCAGCACCTTCAGGATGTCCGGA
GAGTGCAGGATCTAGAACAGAAAATGAAAGTGGTAGAGAATCTCCAGGATGACTTTGATTTCAACTATAAAA
CAAGAGTCAAGGAGACATGCAAGATCTGAATGGAAACAACCAAGTCAGTGACCAGGCAGAAGATGCAGCAGC
AACAGATGCTCACTGCGCTGGACCAGATGCGGAGAAGCATCGTGAGTGAGCTGGCGGGGCTTTTGTGACGGA
GAGTACGTGCAGAAAATCTCACGGACGAGGAGCTGGCTGACTGGAAGAGGCGGCAACAGATTGCCTGCATTG
AGGCCCGCCCAACATCTGCCTAGATCGGCTAGAAAATGGATAACGTCATTAGCAGAATCTCAACTTCAGACCC
GTCAACAAATTAAGAACTGGAGGAGTTGCAGCAAAAAGTTTCTACAAAGGGGACCCATTGTACAGCACCGGC
CGATGCTGGAGGAGAGAATCGTGGAGCTGTTTAGAACTTAATGAAAAGTGCCTTTGTGGTGGAGCGGCAGCCCT
GCATGCCCATGCATCCTGACCGGCCCTCGTCATCAAGACCGGCGTCCAGTTCCTACTACTAAAGTCAGGTGTCTGG
TCAAAATCCCTGAGTTGAATTATCAGCTTAAATTAAGTGTGCATTGACAAAGACTCTGGGGACGTTGCAGCTC
TCAGAGGATCCCGGAAATTTAAACATTCTGGGCACAAACACAAAAGTGATGAACATGGAAGAATCCAACAACGGCA
GCCTCTCTGCAGAATTCAAACACTTGACCCTGAGGGAGCAGAGATGTGGGAATGGGGGCCGAGCCAATTGTGATG
CTTCCCTGATTGTGACTGAGGAGCTGCACCTGATCACCTTTGAGACCGAGGTGTATCACCAAGGCCTCAAGATTG
ACCTAGAGACCCACTCCTTGCCAGTTGTGGTGATCTCCAACATCTGTGATGCCAAATGCCTGGGCGTCCATCC
TGTGGTACAACATGCTGACCAACAATCCCAAGAATGTAACTTTTTTACCAAGCCCCCAATTGGAACCTGGGATC
AAGTGGCCGAGGTCTTGAGCTGGCAGTTCTCCTCCACCACCAAGCGAGGACTGAGCATCGAGCAGCTGACTACAC
TGGCAGAGAACTCTTGGGACCTGGTGTGAATTATTGAGGGTGTGAGATCACATGGGCTAAATTTTGCAAAGAAA
ACATGGCTGGCAAGGGCTTCTCCTTCTGGGTCTGGCTGGACAATATCATTGACCTTGTGAAAAAGTACATCCTGG
CCCTTTGGAACGAAGGGTACATCATGGGCTTTATCAGTAAGGAGCGGGAGCGGGCCATCTTGAGCACTAAGCCTC
CAGGCACCTTCTGCTAAGATTGAGTGAAGCAGCAAAGAAGGAGGCGTCACTTTCACTTGGGTGGAGAAGGACA
TCAGCGGTAAAGACCCAGATCCAGTCCGTGGAACCATAACAAAGCAGCAGCTGAACAACATGTCAATTTGCTGAAA
TCATCATGGGCTATAAGATCATGGATGCTACCAATATCCTGGTGTCTCCACTGGTCTATCTCTATCCTGACATTC
CCAAGGAGGAGGCATTTCGGAAGTATTGTGCGCCAGAGAGCCAGGAGCATCCTGAAGCTGACCCAGGCGCTGCCC
CATACTGAAGACCAAGTTTATCTGTGTGACACCAACGACCTGCAGCAATACCATTGACCTGCCGATGTCCCCC
GCACCTTTAGATTCAATTGATGCAGTTTGGAAATAATGGTGAAGGTGCTGAACCCTCAGCAGGAGGGCAGTTTGAGT
CCCTCACCTTTGACATGGAGTTGACCTCGGAGTGCCTACCTCCCCATGTGAGGAGCTGAGAACGGAAGCTGCA
GAAAGATACGACTGAGGCGCCTACCTGCATTCTGCCACCCCTCACACAGCCAAACCCAGATCATCTGAAACTAC
TAACTTTGTGGTTCCAGATTTTTTTTAACTCTCCTACTTCTGCTATCTTTGAGCAATCTGGGCACCTTTTAAAAATA
GAGAAATGAGTGAATGTGGGTGATCTGCTTTTATCTAAATGCAAATAAGGATGTGTTCTCTGAGACCCATGATCA
GGGGATGTGGCGGGGGTGGCTAGAGGGAGAAAAGGAAATGTCTTGTGTTGTTTTGTTCCTTGCCTCCTTTT
TCAGCAGCTTTTTGTIATTGTTGTTGTTGTTTCTTAGACAAGTGCCTCCTGGTGCCTGCGGCATCCTTCTGCCTGT
TTCTGTAAAGCAAAATGCCACAGGCCACCTATAGCTACATACTCCTGGCATTGCACTTTTTTAACTTGTGACATCC
AAATAGAAGATAGGACTATCTAAGCCCTAGGTTTTCTTTTTAAATTAAGAAATAATAACAATTAAAGGGCAAAAAA
CACTGTATCAGCATAGCCTTTCTGTATTTAAGAACTTAAGCAGCCGGGCATGGTGGCTCACGCCTGTAATCCCA
GCACCTTTGGGAGGCCGAGGCGGATCATAAGGTGAGGAGATCAAGACCATCCTGGCTAACACGGTGAACCCCGTC
TCTACTAAAAGTACAAAAAATTAGCTGGGTGTGGTGGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGC
AGGAGAATCGCTTGAACCTGAGAGGCGGAGGTTGCAGTGAGCCAAAATTGCACCACTGCACACTGCATCCATCC
TGGGCGACAGTCTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 765

MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATLVFHNLLGEIDQQYSRFLQES
NVLYQHNLRRRIKQFLQSRYLEKPMEIARIVARCLWEESRLLQTAATAAQGGQANHPTAAVVTEKQOMLEQHLQD
VRKRVQDLEQKMKVVENLQDDDFNYKTLKSQGDMDLNGNNSVTRQKMQQLEQMLTALDQMRRSIVSELGLL
SAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLNWNITSLAESQLQTRQQIKKLEELQQKVSYKGDPIVQ
HRPMLERIVELFRNLMSAFVVERQPCMPMHPDRPLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDSGDV
AALRGSRKFNILGTNTKVMNMEESNNGSLSAEFKHLTLREQRCGNGGRANCDA SLIVTEELHLITFETEVYHQGL
KIDLETHSLPVVISNICQMPNAWASILWYNMLTNNPKNVNFFT KPPIGTWDQVAEVL SWQFSSTTKRGLSIEQL
TTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGF SFWWLDNIIDL VKKYILALWNEGYIMGFISKERERAILST
KPPGTFLLRFSSESSKEGGVTFTWVEKD ISGKTQIQSVEPYTKQQLNNMSFAEIIIMGYKIMDATNILVSP LVYLYP
DIPKEEAFGKYCRPESQEHPEADPGSAAPYLKTKFICVTPTTCSNTIDLPMSPRTLDSLMOFGNNGEGAEP SAGG
QFESLTFDMELTSECATSPM

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FIGURE 766

GCAGTTGTGTGAGCCGCCAGTATGGCCGGGCTATGGCGGCGAGCACTGGCTACGTGCGACTGTGGGGAGCGGCG
CGGTGCTGGGTGCTGCGGCGGCCGATGCTGGCCGCCCGGGGGGCGGGTTCCCACTGCAGCAGGAGCGTGGTTG
CTCCGAGGCCAGCGGACCTGCGACGCCTCTCCTCCTTGGGCACTGTGGGGCCGAGGCCCGCAATTGGGGGCCAA
TGGCGGGGGTTTTGGGAAGCGAGCAGCCGCGGCGGAGGCGCATTCTCGGGGGCGAGGACGCCTCCGAGGGCGGC
GCGGAGGAAGGAGCCGGCGGCGCGGGGGGAGCGCGGCGCGGGGAAGGCCCGGTCTAACGGCGCTCACGCCC
ATGACGATCCCCGATGTGTTTCCGCACCTGCCGCTCATCGCCATCACCCGCAACCCGGTGTTCGCGCCTTTATC
AAGATTATCGAGGTTAAAAATAAGAAGTTGGTTGAGCTGCTGAGAAGGAAAGTTCGTCTCGCCAGCCTTATGTC
GGCGTCTTTCTAAAGAGAGATGACAGCAATGAGTCGGATGTGGTTCGAGAGCCTGGATGAAATCTACCACACGGGG
ACGTTTGGCCAGATCCATGAGATGCAGGACCTTGGGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTC
CATATCAGCAGACAGCTGGAGGTGGAGCCCGAGGAGCCGGAGGCGGAGAACAAGCACAAGCCCCGAGGAAGTCA
AAGCGGGGCAAGAAGGAGGCGGAGGACGAGCTGAGCGCCAGGCACCCGGCGGAGCTGGCGATGGAGCCACCCCT
GAGCTCCCGGCTGAGGTGCTCATGGTGGAGGTAGAGAACGTTGTCCACGAGGACTTCCAGGTCACGGAGGAGGTG
AAAGCCCTGACTGCAGAGATCGTGAAGACCATCCGGGACATCATTGCCCTTGAACCCTCTCTACAGGGAGTCAGTG
CTGCAGATGATGCAGGCTGGCCAGCGGGTGGTGGACAACCCCATCTACCTGAGCGACATGGGCGCCGCGCTCACC
GGGGCCGAGTCCCATGAGCTGCAGGACGTCTTGAAGAGACCAATATTCTAAGCGGCTGTACAAGGCCCTCTCC
CTGCTGAAGAAGGAATTTGAACTGAGCAAGCTGCAGCAGCGCTGGGGCGGGAGGTGGAGGAGAAGATCAAGCAG
ACCCACCCTAAGTACCTGCTGCAGGAGCAGCTAAAGATCATCAAGAAGGAGCTGGGCCTGGAGAAGGACGACAAG
GATGCCATCGAGGAGAAGTTCCGGGAGCGCCTGAAGGAGCTCGTGGTCCCAAGCACGTCATGGATGTTGTGGAC
GAGGAGCTGAGCAAGCTGGGCCTGCTGGACAACCACTCCTCGGAGTTCAATGTACCCGCAACTACCTAGACTGG
CTCACGTCCATCCCTTGGGGCAAGTACAGCAACGAGAACCTGGACCTGGCGCGGGCACAGGCAGTGCTGGAGGAA
GACCACTACGGCATGGAGGACGTCAAGAAACGCATCCTGGAGTTCATTGCCGTTAGCCAGCTCCGCGGCTCCACC
CAGGGCAAGATCCTCTGCTTCTATGGCCCCCTGGCGTGGGTAAGACCAGCATTGCTCGCTCCATCGCCCCGCGCC
CTGAACCGAGAGTACTTCCGCTTCAGCGCTCGGGGCGATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACC
TACGTGGGCGCCATGCCCCGGAAGATCATCCAGTGTTTGAAGAAGACCAAGACGGAGAACCCCTGATCCTCATC
GACGAGGTGGACAAGATCGGCCGAGGCTACCAGGGGGACCCGTGCTCGGCACTGCTGGAGCTGCTGGACCCAGAG
CAGAATGCCAATTTCTGGACCACTACCTGGACGTGCCCCTGGACTTGTCCAAGGTGCTGTTTATCTGCACGGCC
AACGTCACGGACACCATCCCCGAGCCGCTGCGAGACCGTATGGAGATGATCAACGTGTCGGGCTACGTGGCCCAG
GAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGCCCCAGGCTCGCGCCCTGTGTGGCTTGGATGAGAGCAAGGCC
AAGCTGTATCGGACGTGCTGACGCTGCTCATCAAGCAGTACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAG
CAAGTGGAGAAGGTGTTACGGAATCGGCCTACAAGATTGTCAGCGGCGAGGCCGAGTCCGTGGAGGTGACGCCC
GAGAACCTGCAGGACTTCGTGGGGAAGCCCGTGTTACCGTGGAGCGCATGTATGACGTGACACCGCCCGGCGTG
GTCATGGGGCTGGCCTGGACCGCAATGGGAGGCTCCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGAC
AAGGATGCCAAGGGTGACAAGGATGGCAGCCTGGAGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCC
CGCATAGCCTACACCTTCGCCAGAGCCTTCCTCATGCAGCAGCCCCCGCCAATGACTACCTGGTGACCTCACAC
ATCCACCTGCATGTGCCGAGGGCGCCACCCCCAAGGACGGCCCAAGCGCAGGCTGCACCATCGTCACGGCCCTG
CTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGAATCTGGCCATGACTGGCGAAGTCTCCCTCACGGGCAAGATC
CTGCCTGTTGGTGGCATCAAGGAGAAGACCATTGCGGCCAAGCGCGCAGGGGTGACGTGCATCGTCCTGCCAGCC
GAGAACAAGAAGGACTTCTACGACCTGGCAGCCTTATCACCGAGGGCCTGGAGGTGCACTTCGTGGAACTACTAC
CGGGAGATCTTCGACATCGCCTTCCCGGACGAGCAGGCAGAGGCGCTGGCCGTGGAACGGTACAGGCCACCCCGG
GACTGCAGGCGGCGGATGTGAGGCCCTGTCTGGGCCAGAAGTGAAGCGCTGTGGGGAGCGCGCCCGGACCTGGCAG
TGGAGCCACCGAGCGAGCAGCTCGGTCCAGTGACCCAGATCCCAGGGACCTCAGTCGGCTTAATCAGAGTGTGGC
ATAGAAGCTATTTAATGATTAAAGTCATTTGCAGTA

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FIGURE 767

MAASTGYVRLWGAARCWVLRRPMLAAAGGRVPTAAGAWLLRGQRTCDASPPWALWGRGPAIGGQWRGFWEASSRG
GGAFSGGEDASEGGAEEGAGGAGGSAGAGEGPVITALTPMTIPDVFPHLPLIAITRNPVFPRFIKIIIEVKNKKLV
ELLRRKVRLAQPYVGVFLKRDDSNESDVVESLDEIYHTGTFAQIHEMQDLGDKLRMIVMGHRRVHISRQLEVEPE
EPEAENKHKPRRSKRGKKEAEDELSARHPAELAMEPTPELPAEVLMEVENNVHEDFQVTEEVKALTAEIVKTI
RDI IALNPLYRESVLQMMQAGQRVVDNPIYLSDMGAALTGAESHELQDVLEETNIPKRLYKALSLLKKEFELSKL
QQRLGREVEEKIKQTHRKYLLQEQLKIIKKELGLEKDDKDAIEEKFRERLKELVVPKHVMDVVDEELSKLGLLDN
HSSEFNVTNRNYLDWLTSIPWGKYSNENLDLARAQAVLEEDHYGMEDVKKRILEFIAVSQLRGSTQGKILCFYGGP
GVGKTSIARSIARALNREYFRFSVGGMTDVAEIKGHRRTYVGAMPGKIIQCLKKTKTENPLILIDEVDKIGRGYQ
GDPSSALLELLDPEQANFLDHYLDVPVDLSKVLFICTANVTDTIPEPLRDRMEMINVSQYVAQEKLAIAERYLV
PQARALCGLDESKAKLSSDVLTLIKQYCRESGVRNLQKQVEKVLRSAYKIVSGEAESEVTPENLQDFVGKPV
FTVERMYDVTTPPGVVMGLAWTAMGGSTLFVETSLRRPQDKDAKGDKGSLEVTGQLGEVMKESARIAYTFAFAFL
MQHAPANDYLVTSIHHLHVPEGATPKDGPSAGCTIVTALLSLAMGRPVRQNLAMTGEVSLTGKILPVGGIKEKTI
AAKRAGVTCIVLPAENKKDFYDLAAFITEGLEVHFVEHYREIFDIAFPDEQAEALAVR

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FIGURE 768

GTGGGGCTGGGCCCAGCCGGACGCGACCTCAGCCTGCGGCGGCTAACTGCCGGTAGGCGTCTGTGTGCGCCGCCA
AGTCGGTGGGGCGGGGACGCGAGGTGTGGATGGGGGGTCGCCCTGACCTCTGCCTCAGCCAGTAGCGCAGTCTCG
GCCTCGCCGTTACGGAGATGGTGCCCTGGGTGCGGACGATGGGGCAGAAGCTGAAGCAGCGGCTGCGACTGGACG
TGGGACGCGAGATCTGCCGCCAGTACCCGCTGTTCTGCTTCCCTGCTGCTCTGTCTCAGCGCCGCTCCCTGCTTC
TTAACAGGTATATTCATATTTTAAATGATCTTCTGGTCATTTGTTGCTGGAGTTGTACATTCTACTGCTCACTAG
GACCTGATTCTCTCTTACCAAATATATTCTTCACAATAAAATACAAACCCAAGCAGTTAGGACTTCAGGAATTAT
TTCCTCAAGGTCATAGCTGTGCTGTTTGTGGTAAAGTGAAATGTAAACGACATAGGCCTTCTTTGCTACTTGAAA
ACTACCAGCCATGGCTAGACCTGAAAATTTCTTCCAAGGTTGATGCATCTCTCTCAGAGGTGGATATTCCATCTA
TTATAACCAAGAACTATTAAAAGCAGCAATGAAGCATATAGAAGTGATAGTTAAAGCCAGACAGAAAAGTAAAAA
ATACAGAGTTTTTACAGCAAGCTGCTTTAGAAGAATATGGTCCAGAGCTTCATGTTGCTTTGAGAAAGTCGAAGAG
ATGAATTGCACTATTTAAGGAACTTACTGAACTGCTTTTTCTTATATTTTGCCTCCTAAAGCAACAGACTGCA
GATCTCTGACCTTACTTATAAGAGAGATTCTGTCTGGCTCTGTGTTTCTTCTCTTTGGATTTCCTAGCTGATC
CAGATACTGTGAATCATTTGCTTATCATCTTCATAGATGACAGTCCACCTGAAAAAGCAACTGAACCGGCTTCTC
CTTTGGTTCCATTCTTGCAGAAATTTGCAGAACCTAGAAATAAAAAGCCATCTGTGCTGAAGTTAGAATTGAAGC
AAATCAGAGAGCAACAAGATCTTTTATTTCTGTTTTATGAACCTTCTGAAACAAGAAGGCGCAGTGCACGTGTTGC
AGTTTTGTTTGAAGTGTGGAGGAATTTAATGATAGAATTTTACGACCAGAATTATCAAATGATGAAATGCTGTCTC
TTCATGAAGAATTGCAGAAGATTTATAAACATACTGTTTGGATGAAAGTATTGACAAAATTAGATTTGATCCCT
TCATTGTAGAAGAGATTCAAAGAATTGCTGAAGGCCATACATAGATGTTGTGAACTTCAAACATATGAGATGTC
TTTTTGAAGCATATGAACATGTTCTTTCCCTTTTGGAGAATGTATTTACTCCTATGTTCTGCCATAGTGATGAGT
ATTTTCAGACAACTTTTAAGAGGTGCAGAATCACCAACACGCAATTCAAAATTGAACAGGAACACACAGAAAAGGG
GAGAATCATTGGAATCAGCAGAATAGGTAGCAAAATTAAAGGAGTATTCAAAGTACCACAATGGAGGGAGCTA
TGTTGCCTAATTATGGTGTAGCTGAAGGTGAAGATGATTTTATTGAAGAAGGTATTGTTGTAATGGAAGATGATT
CTCCAGTGGAGGCTGTGAGCACACCTAATACTCCCCGAAACCTTGCTGCATGGAAAATTAGCATTCCATATGTAG
ACTTTTTTGGAGATCCCTCCTCTGAAAGGAAGGAGAAAAAGAAAGAAATTCCTGTGTTTTGTATTGATGTTGAAA
GAAATGATAGAAGAGCAGTTGGACACGAGCCTGAACATTTGGTCTGTCTATAGAAGATATCTTGAATTCTATGTAC
TTGAATCAAACTAACAGAATTTTATGGTGCATTTCTTGATGCCCAGCTTCCTTCTAAGAGGATCATTGGCCCCA
AAAATTATGAATTCCTTAAAGTCAAAGAGGGGAAGAGTTCCAAGAATATCTACAGAACTTCTGCAGCATCCAGAAC
TGAGTAATAGTCAACTTCTGGCAGACTTTCTTTCCCTAATGGTGGGGAACACAATTTCTTGATAAGATACTAC
CAGATGTAAATCTTGGGAAAATTATAAAATCTGTTCCCTGGAAACTAATGAAAGAGAAAGGTGAGCATTGGAAC
CTTTTATCATGAATTTTATTAATTCTTGTGAGTCTCCAAAGCCTAAACCAAGTAGACCAGAACTGACCATTCTCA
GCCCTACTTCAGAAAACAACAAGAAGCTTTTCAATGATCTGTTTAAAAATAATGCAACCGTGCTGAAAATACAG
AGAGAAAGCAAAATCAGAATTATTTATGGAGGTGATGACTGTAGAAGGAGTCTATGATTACCTGATGTATGTAG
GACGGGTAGTTTTCCAGGTTCTGACTGGCTTCATCATCTCTTAATGGGAACTCGAATCCTCTTTAAAAACACCC
TGGAATGTATACTGATTACTATCTTCAGTGTAACTAGAACAGCTATTTTCAGGAGCACCGTTTGGTCTCACTCA
TAACACTTCTCAGAGATGCTATATTCTGTGAAAACACTGAACCTCGCTCTCTCCAAGATAAGCAAAAAGGAGCAA
AACAGACTTTTGAAGAAATGATGAATTACATTCCAGATCTGTTAGTCAAGTGTATTGGTGAAGAAACCAAGTATG
AAAGCATCAGACTTCTGTTGATGGCTTACAGCAACCAGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACA
TTGTGATACAGGAAGTGTTCAGAGCTCAATAAGGTACAAAAGGAAGTTACCTCTGTGACATCTTGGATGTA
CACTTGGATTTGGTATAGAATAACCCATTGAAATTTCTGCTGTGCGAGGGTGGTAGAAATTTACTTTTTTGGGTA
TATTCTTATATATATTATGTACATCGCTGTCTGAAATTTTAGTTATTTTTTGTTTTTTAATAAGACTAACACAAA
CTTAATGATTAAAAAGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 769

MGQKLKQRLRLDVGREICRQYPLFCFLLLCLSAASLLLNRYIHILMIFWSFVAGVVTFYCSLGPDSLLPNIFFTI
KYKPKQLGLQELFPQGHSCAVCGKVKCKRHRPSLLLENYQPWLDLKISSKVDASLSEVDIPSIITKKLLKAAMKH
IEVIVKARQKVKNTEFLQQAAL EYGP ELHVALRSRRDELHYLRKLT ELLFPYILPPKATDCRSLTLLIREILSG
SVFLPSLDLADPDTVNHLIIIFIDDSPPEKATEPASPLVFPFLQKFAEPRNKKPSVLKLELKQIREQQDLLFRFM
NFLKQEGAVHVLQFCLTVEEFNDRILRPELSNDEM LSLHEELQKIYKTYCLDESIDKIRFDPFIVEEIQRI AEGP
YIDVVKLQTMRCLEAYEHVLSLLENVFTPMFCHSDEYFRQLLRGAESPTRNSKLN RNTQKRGESFGISRIGSKI
KGVFKSTTMEGAMLPNYGVAEGEDDFIEEGIVVMEDDSPVEAVSTPNTPRNLA AWKISIPYVDFEEDPSSERKEK
KERIPVFCIDVERNDRRAVGHEPEHWSVYRRYLEFYVLESKLTEFHGAFPDAQLPSKRIIGPKNYEFLKSKREEF
QEYLQKLLQHP ELSNSQLLADFLSPNGGETQFLDKILPDVNLGKIIKSVPGLMKEKGQHLEPFIMNFINSCE SP
KPKPSRPELTILSPTSENK KLFNDLFKNNANRAENTERKQNQNYFMEVMTVEGVYDYL MYVGRVVFQVPDWLHH
LLMGTRILFKNTLEMYTDYYLQCKLEQLFQEHRLVSLITLLRDAIFCENTEPRSLQDKQKGAKQTFEEMMNYIPD
LLVKCIGETKYESIRLLFDGLQQPVLNKQLTYVLLDIVIQELFPELNKVQKEVTSVTSWM

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FIGURE 770

ACAGAGGAGCCGACTCGGCAGGGACTGGGGGACCGGGCCGAGAGTGCGAGCGAGCGAGGGAGGGAGTGAGGGAGC
GTGCGAGCCAGAAGGGGAAAGGCGGCCACTCGTGCCCTGAGCGACCGCAGAGGGGAGTGGGAGCAGTGGGGTAAAG
GAGCGGGGGGGCGGAATAAGAAAGGCCGAGAGAAGGCGGACAGAGGCTAGTGGTGGTGGTGGTGGTAGGGGGAGA
AGGAGGAGCTGGAGGAGGGCAGGGGCTGAGGGAGTGAGTGAAGCGGACGCGCGAGGGAGGGGAGGGAAGGGAAGG
AGGGAAGGGGGGGTACGCGGGGGCGCGCGCGCACCGGGAGCGCGCTCGGAGGCGAGTGGAAGTGGATCGG
GCTGCCAGCGCGTGAGCTTCGGCCGCCATTTTACAACAGCTCCACTCGCGCCGGACACAGGGAGCAGCGA
GCGGTTTTCCCGCAACCCGATACCATCGGACAGGATTTCTCCGCTCAGCCCAACGGGGAGATCTCTGGAAC
ATGGCTACAGAACATGTTAATGAAAATGGTACTGAAGAGCCCATGGATACTACTTCTGCAGTTATCCATTCAGAA
TTTTTCAGACATTGCTTGATGCTGGTTTACCACAGAAAGTTGCTGAAAACTAGATGAAATTTACGTTGCAGGG
TTTGCACATAGTGATTAGATGAAAGAGCTATTGAAGCTTTAAAAGAATTCAATGAAGACGGTGCATTGGCA
TTCAACAGTTTAAAGACAGTGATCTCTCTCATGTTCAGAACAAAAGTGCCTTTTTATGTGGAGTCATGAAG
ACAGGCAGAGAGAAAAACAAGGGACCAAAGTAGCAGATTCTAGTAAAGGACCAGATGAGGCAAAAATTAAG
ACTCTTGGAAAGAACAGGCTACACACTTGATGTGACCACTGGACAGAGGAAGTATGGAGGACCACCTCCAGAT
CGTTTATTCAAGTCAGCAGCCTTCTGTTGGCACTGAGATATTTGTGGGAAAGATCCCAAGAGATCTATTTGAG
GATGAACTTGTTCATTATTTGAGAAAGCTGGACCTATATGGGATCTTCGTCTAATGATGGATCCACTCACTGGT
CTCAATAGAGGTTATGCGTTTGTCACTTTTTGTACAAAAGAAGCAGCTCAGGAGGCTGTTAACTGTATAATAAT
CATGAAATTCGTTCTGGAACACATATTGGTGTCTGCATCTCAGTTGCCAACAATAGGCTTTTTGTGGGCTCTATT
CCTAAGAGTAAAACCAAGGAACAGATTCTTGAAGAATTTAGCAAAGTAACAGAGGGTCTTACAGACGTCATTTTA
TACCACCAACCGGATGACAAGAAAAAACAAGGAGCTTTTGCTTCTTGAATATGAAGATCACAAAACAGCTGCC
CAGGCAAGGCGTAGGTTAATGAGTGGTAAAGTCAAGGTCTGGGGGAATGTTGGAAGTGTGAATGGGCTGATCCT
ATAGAAGATCCTGATCCTGAGGTTATGGCAAAGGTAAAAGTGTGTTGTACGCAACCTTGCCAATACTGTAAACA
GAAGAGATTTTAGAAAAGGCATTTAGTCAGTTTGGGAACTGGAACGAGTGAAGAAGTTAAAAGATTATGCGTTT
ATTCATTTTGATGAGCGAGATGGTGTGTCAAGGCTATGGAAGAAATGAATGGCAAAGACTTGGAGGGAGAAAAT
ATTGAAATTTGTTTTTGCCAAGCCACCAGATCAGAAAAGGAAAGAAAGAAAGCTCAGAGGCAAGCAGCAAAAAAT
CAAATGTATGACGATTACTACTATTATGGTCCACCTCATATGCCCCCTCCAACAAGAGGTCGAGGGCGTGAGGT
AGAGGTGGTTATGGATATCCTCCAGATTATTATGGATATGAAGATTATTATGATTATTATGGTTATGATTACCAT
AACTATCGTGGTGGATATGAAGATCCATACTATGGTTATGAAGATTTTCAAGTTGGAGCTAGAGGAAGGGGTGGT
AGAGGAGCAAGGGGTGCTGCTCCATCCAGAGGTCGTGGGGCTGCTCCTCCCCGCGGTAGAGCCGGTTATTCACAG
AGAGGAGGTCCTGGATCAGCAAGAGGCGTTTCGAGGTGCGAGAGGAGGTGCCAACAACAAAGAGGCCGCGGGGTA
CGTGGTGCGAGGGGTGGCCGCGGTGGAAATGTAGGAGGAAAGCGCAAAGCTGATGGGTACAACCAGCCAGATTCC
AAGCGGCGCCAGACCAATAATCAGAACTGGGGCTCCCAACCCATTGCTCAGCAACCGCTCCAAGGTGGTGATCAT
TCTGGTAACTATGGTTACAAATCTGAAAACCAGGAGTTTTATCAGGATACTTTTGGGCAACAGTGGAAGTAGAAA
CAGTAGGGCCTCTGTAAAATTGGAGACTGATAGGTTGATCAGAACTCACCTAAATCTGAACGGGTGCCGCTAT
AATTTGTGACATCTGGCAAGATTTCCCTTTATGTATATATTTTAAACAATCCGCTTGGACACGAACAAAGCCACAC
TTCTAACTGCTTCTGGCGAACTGATTTTATTTTTAATTTTTTCAATAAAGATATTCTTAGATACTGAAAGAAAT
AGTTAATGAGTTTGCATTTGTGCTTGAGAAAATTTGGCTCAAGTCCATTTGGCTGTAGTGTCACAGATGTTTCCA
GTAGTGTTTAGATTTGGTGTCTTCAAAGGTAGTTGATTAACCAAGTGTGTCTTTAATATCTTGTATCAGAATA
ACTTTGTATGTTACCAACTTAAATTGCTAGAATAAGGTAAATTGATACACAACCTGCTATTTTTAATTTAGAACTT
TGACCTAATTTGGGTTTTCAAACCATTTTGGCTACTTGTATTCTTTATGCTGTTGTTTATTTCAATAAAAAAT
CACACCT

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FIGURE 771

MATEHVNGNGTEEPMDTTS AVIHSENFQTL LDAGLPQKVAEKLDEIYVAGLV AHSDDLDERAIEALKEFNEDGALA
VLQQFKDSDL SHVQNKSAFLCGVMKTYRQREKQGTKVADSSKGPDEAKIKALLERTGYTLDVTTGQRKYGGPPPD
SVYSGQQPSVGTEIFVGKIPRDLFEDELVPLFEKAGPIWDLRLMMDPLTGLNRYAFVTFCTKEAAQEAVKLYNN
HEIRSGKHIGVCISVANNRLFVGSIPKSKTKEQILEEFSKVTEGLTDVILYHQPDDKKKNRSFCFLEYEDHKTA
QARRRLMSGKVKVWGNVGTVEWADPIEDPDPEVMAKVKVL FVRNLANTVTEEILEKAFSQFGKLERVKKLKDYAF
IHFDERDGAVKAMEEMNGKDLEGENIEIVFAKPPDQKRKERKAQRQAANKQMYDDYYYYGPPHMPPTTRGRGRGG
RGGYGYPDYGYEDYYDYGYDYHNYRGGYEDPYGYEDFQVGARGRGGRGARGAAPSRGRGAAPPRGRAGYSQ
RGGPGSARGVRGARGGAQQQRGRGVRGARGGRGGNVGGKRKADGYNQPD SKRRQTNNQNWGSQPIAQQPLQGGDH
SGNYGYKSENQEFYQDTFGQQWK

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FIGURE 772

CTTTTTCTCCATCTCAGAACCTTCCTGCCGTCGCGTTTGACCTCGCTGCTCCAGCCTCTGGGGCGCATTCCAAC
CTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTATTTTCTTGCCCCATACATACCTTGAGGCGAGCAAAAA
AATTAAATTTTAACCATGAGGGAAATCGTGCACATCCAGGCTGGTCAGTGTGGCAACCAGATCGGTGCCAAGTTC
TGGGAGGTGATCAGTGATGAACATGGCATCGACCCACCGGCACCTACCACGGGGACAGCGACCTGCAGCTGGAC
CGCATCTCTGTGTACTACAATGAAGCCACAGGTGGCAAATATGTTCTCGTGCCATCCTGGTGGATCTAGAACCT
GGGACCATGGACTCTGTTTCGCTCAGGTCCTTTTGGCCAGATCTTTAGACCAGACAACCTTGTATTGGTCAGTCT
GGGGCAGGTAACAACCTGGGCCAAAGGCCACTACACAGAGGGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTA
CGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCTTCAGCTGACCCACTCACTGGGCGGGGGCACAGGCTCT
GGAATGGGCACTCTCCTTATCAGCAAGATCCGAGAAGAATACCCTGATCGCATCATGAATACCTTCAGTGTGGTG
CCTTCACCCAAAGTGTCTGACACCGTGGTCGAGCCCTACAATGCCACCCTCTCCGTCCATCAGTTGGTAGAGAAT
ACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTATGATATCTGCTTCCGCACTCTGAAGCTGACCACACCA
ACCTACGGGGATCTGAACCACCTTGTCTCAGCCACCATGAGTGGTGTACCACCTGCCCTCCGTTTCCCTGGCCAG
CTCAATGCTGACCTCCGCAAGTTGGCAGTCAACATGGTCCCCTTCCCACGTCTCCATTTCTTTAIGCCTGGCTTT
GCCCCCTCTACCAGCCGTGGAAGCCAGCAGTATCGAGCTCTCACAGTGCCGGAACCTACCCAGCAGGTCTTCGAT
GCCAAGGACATGATGGCTGCCTGTGACCCCGCCACGGCCGATACCTCACCGTGGCTGCTGTCTTCCGTGGTCGG
ATGTCCATGAAGGAGGTCGATGAGCAGATGCTTAACGTGCAGAACAAAGAACAGCAGCTACTTTGTGGAATGGATC
CCCAACAATGTCAAGACAGCCGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATTGGCAAT
AGCACAGCCATCCAGGAGCTCTTCAAGCGCATCTCGGAGCAGTTCACTGCCATGTTCCGCCGGAAGGCCTTCCTC
CACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTACCGAGGCTGAGAGCAACATGAACGACCTCGTCTCT
GAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGAGGATTTCGGTGAGGAGGCCGAAGAGGAGGCCTAA

GGCAGAGCCCCCATCACCTCAGGCTTCTCAGTTCCTTAGCCGTCTTACTCAACTGCCCCCTTTCCTCTCCCTCAG
AATTTGTGTTTGCTGCCTCTATCTTGTGTTTTTGTGTTTTTCTTCTGGGGGGGGTCTAGAACAGTGCCTGGCACAT
AGTAGGCGCTCAATAAATACTTGTTTGTGAAAAAAAAAAAAAAAAA

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FIGURE 773

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPQQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQVFDKMM
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQNKNSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEEEE

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FIGURE 774

TGTTCCGCGATCTTCTCAGGCTCTCCTAGCAGCATCCATCGCCGCCACCCTATCTTCACTGGCTTCACCTTCTCC
TTCTCTCTTCGTTGCTGAGCGACAAGCTTCCTAGCGCTATGACTGTCGTCTCCGTCCCGCAGCGGGAGCCGCTCG
TCCTGGGTGGCCGCCCTTGCGCCGCTTGGCTTTTCTCCTCCCGAGGTTACTTTGGGGCCCTCCCGATGGTGACCACGG
CTCCGCCCTCCTTTACCCCGGATCCCGGACCCCGGGCACTGCCCCGACCCTCTTCTCCTCATTTCCTAGGGG
GAGATGGCCCGTGTCTGACCCCCCAGCCTCGCGCTCCAGCAGCTCTGCCCAACCGCAGCCTCGCCGTGGCGGGAG
GCACTCCTCGGGCAGCGCCGAAGAAGCGGCGAAAGAAGAAGGTGCGGGCCAGCCCCGAGGGCAGCTGCCAGCC
GCTTCCACCAGTACCAGCAGCACCGGCCGAGTCTGGAGGGCGGCCGGAGCCCCGCGACCGGCCCGAGCGGAGCGC
AGGAGGTCCC GGCCCGGCCGCCGCTTGGCCCCGAGTCTGCGCCGCGAGCCGGCACGGAGGGAGCCAGCCCCG
ACCTTGCCCCGCTGCGGCCCGCGGCTCCCGGCCAAACCCCCCTCAGGAAAGAGGTTTTAAATCAAAGATGGGAA
AATCGGAGAAAATTGCCCTTCCCATGGCCAGCTTGTTTATGGTATACACTTGTATGAGCAACCAAAGATAAACA
GACAGAAAAGCAAATATAACTTGGCCTAACCAGATCACCTCTGCAAAAAGAAATGAAAACAACCTTTTGGCAGG
ATTCTGTTTCATCTGACAGAATTCAGAAGCAGGAAAAAAGCCTTTTAAAAATACCGAGAACATTAATAATTTCGC
ATTTGAAGAAATCAGCATTCTAACTGAAGTGAGCCAAAAGGAAAATTATGCTGGGGCAAAGTTTAGTGATCCAC
CTTCTCCTAGTGTTCTTCCAAAGCCTCCTAGTCACTGGATGGGAAGCACTGTTGAAAATTCCAACCAAAACAGGG
AGCTGATGGCAGTACACTTAAAAACCTCCTCAAAGTTCAAACCTTAGATTTCAGATTTTCAGTATGTGTGTA AAC
ATAATTTTTCCCATATCCCTGGACTCTTGAGAAAATTGGTACAGAAATGGAAATTTGCCTTGTTGCAACATACAA
TTGCAAAAGATGAGTTTAAAAAATTACATACAAACAGCTTGATTATATTTTATATTTTGTAAATACTGTATACC
ATGTATTATGTGTATATTGTTTACTTGGAGAGGTATATTATAGTTTTGTTATGAAAGTATGTATTTTGCCCTGC
CCACATTGCAGGTGTTTTGTATATATACAATGGATAAATTTAAGTGTGTGCTAAGGCACATGGAAGACCGATT
TATTTGCACAAGGTACTGAGATTTTTTTCAAGAAACAGCTGTCAAATCTCAAGGTGAAGATCTAAATGTGAACAG
TTTACTAATGCACTACTGAAGTTTAAATCTGTGGCACAATCAATGTAAGCATGGGGTTTGTCTCTAAATTGAT
TTGTAATCTGAAATTACTGAACAACCTCCTATTCCCATTTTGTCTAACTCAATTTCTGGTTTGGTATATATCCA
TTCCAGCTTAATGCCTCTAATTTTAAATGCCAACAAAATTGGTTGTAATCAAATTTTAAATAATAATAATTGGC
CCCCCTTTTAAAAATAGTCTTGACTCTTTGTGTGTGACTGTTTCTCATGTTTGAATGTGTGACTAGGAGATGATT
TTGTGTGGTTGGATTTTTTTGACTTCTACTTTACTGGCTGAGTGTGAGCCGCCATGCCTGGCCATAATCTACATT
TTCTTACCAGGAGCAGCATTGAGGTTTTTGGAGCATAGTACTTGACTACTCTAGAGGCTGAGACGGGAGCATCTCT
TGAGCCTGAGAAGTGAGATTGCAATTGAGCTAGGACTCAGGCCACTGCACTCCAGCCTGGGTAACAGACGCTGTC
TCAAAAAAAGGCCAAGAGAAAGTAAGGGAGACAGA

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FIGURE 775

MTVVSVPQREPLVLGGRLAPLGFSSRGYFGALPMVTTAPPPPLPRIPDPRALPPTLFLPHFLGGDGPCLTPQPRAP
AALPNRSLAVAGGTPRAAPKKRRKKKVRASPAGQLPSRFHQYQQHRPSLEGGRSPATGPSGAQEVPGPAAALAPS
PAAAAGTEGASPD LAPLRPAAPGQTPLRKEVLKSKMGKSEKIALPHGQLVHGIHLYEQPKINRQKSKYNLPLTKI
TSAKRNNENFWQDSVSSDRIQKQEKKPFKN TENIKNSHLKKS AFLTEVSQKENYAGAKFSDPPSPSVLPKPPSHW
MGSTVENSNQNRELM AVHLKTLLKVQT

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FIGURE 776

CCCTACCGCCCCCAATTCCGCCCTGCCCGCGCGGCGGCTAGCCGCCACTGAGGGACCGACCCTATAAAGG
CTGCTCCGCGAGGGGTGCGCAGCATTCGGCAGAGGGCGCTTCGACGGGCTGGGCTGTGCGCTGCGCAGTGTGGG
TGGCTCCCGATTCCCTGCCCGCGCGGCGCGCTCGGCTCCGCACCCTCGCCCCGCTCTCAGCCGCCGCTCTGC
CCCGCAGCAGCCAGCCCCGTGTCCGGCAGTATGTTTCAGCTGGGTGAGCAAGGATGCCCGCCGCAAGAAGGAGCCG
TCTTCCAGACGGTGGCCGAGGGGCTGCGGCAGCTGTACGCGCAGAAGCTGCTACCCCTGGAGGAGCACTAC
TCCACGAGTTCCTACTCGCCCGCRCTGGAGGACGCTGACTTCGACAACAAGCCTATGGTGCTCCTCGTGRGG
ACAGCACGGGCAAGACCACCTTCATCCGACACCTGATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCC
GATGCCACCACCGACTCCTTCATCGCCGTATGCACGGCCCCACTGAGGGCGTGGTGGCGGGCAACGCGCTCGTG
TACCCGCGGCGCCCCCTTCGCAAGCTCAACGCGTTTGGCAACGCTTTCCTCAACAGGTTTCATGTGTGCCAG
TCAACCCCGTCTTGGACAGCATCAGCATCATCGACACCCCGGGATCCTGTCTGGAGAGAAGCAGCGGATC
GAGGCTATGACTTTGCAGCCGTCTTGGAGTGGTTCGCGGAGCGTGTGGACCGCATCATCCTGCTCTTCGAC
ACAAGCTGGACATCTCCGATGAGTTCTCGGAAGTGATCAAGGCTCTGAAGAACCATGAGGACAAGATCCGC
GCTGTGAACAAGGCAGACCAGATCGAGACGCAGCAGCTGATGCGGGTGTACGGGGCCCTCATGTGGTCCCTG
GCAAGATCATCAACACCCCGAGGTGGTTCAGGGTCTACATCGGCTCCTTCTGGTCCACCCGCTCCTCATCCCC
GACAACCGCAAGCTCTTTGAGGCCGAGGAGCAGGACCTCTCAAGGACATCCAGTCACTGCCCCGAAACGCCGCC
CTCAGGAAGCTCAATGACCTGATCAAGCGGGCACGGCTGGCCAAGGTTACGCCTACATCATCAGCTCCCTCAAG
AAAGAGATGCCCAATGTCTTTGGTAAAGAGAGCAAAAAGAAAGAGCTGGTGAACAACCTGGGAGAGATCTACCAG
AAGATTGAGCGCGAGCACCAGATCTCCCTTGGGGACTTCCCGAGCCTCCGCAAGATGCAGGAACCTCTGCAGACC
CAGGACTTCAGCAAGTTCCAGGCGCTGAAGCCCAAGCTGCTGGACACGGTGGATGACATGCTGGCCAACGACATC
GCGCGGCTGATGGTGTATGGTGGCGGAGGAGTCCCTGATGCCTTCCAGGTGGTCAAGGGCGGCGCCTTTGAC
GGCACCATGAACGGGCCGTTTCGGGCACGGCTACGGCGAGGGGGCGGCGAGGGCATCCACGACGTGGAGTGGGTG
GTGGGCAAGGACAAGCCCCACCTACGACGAGATCTTCTACACGCTGTCCCCTGTCAACGGCAAGATCACGGGCGCC
AACGCCAAGAAGGAGATGGTGAAGTCCAAGCTCCCCAACACCGTGCTAGGGAAGATCTGGAAGCTGGCCGACGTG
GACAAGGACGGGCTGCTGGACGACGAGGAGTTCGCGCTGGCCAACCACCTCATCAAGGTCAAGCTGGAGGGCCAC
GAGCTGCCCCGCCGACCTGCCCGCGACCTGGTGCCGCCCTCCAAGCGCAGACATGAGTGGATGGCGCCCGCCCCG
CACCTGCCATTTGCACGCGCGCGGGAGGCAGAGACGGGGGGAGGGGAAGCCTCACCATTTCTCAAGGTCCATA
AAGACTGAGCGGATGTTTCTCGCCTCTCGAAAAGGAAAACCACCATCTTTCTTTTAAGGTGTTCTTGGGCTG
GCGGGGGAGGCAGGGGTGAGAGGATGGAATTGTGTGCACAAGAACTGTGGCTATTTTAATATATAACGTTAGAGG
CTGCGTTCTTTGTGCGCGCCTCCCTGTGTGCCAGCCCTGTGTGCACGGCCTCTGCCCCCGGCCCTGTGTGTG
GCTGGAGCTGGACAGTGCAGTGAAGTGCACCGTGGGGGAGCCAGGTGCGCCCTTTGGCAGCTGCTAGGCTGAGGC
TGCATGGACAGGAACACCAGGCACCCTCCGTGTGCTTCTGAGCTGAGGTTGCTTCACGGGACCGTGGCTTCCTTC
CTCACCTGGCTCTGCCTCCCCGTGCTCTCGGGCGAAGTGGGTCTTGTGCTTCCCTTCCGGGCCCAGGCTCC
CCGTGCGCGGGCCCTGCCCTTTCTCCCGCGCCCCACCGCTCCGACGCGCAACCCCGCTCAGCAGTCACAGAAG
CAGGGCCCAGCCACCTTGGTCTTTTTTTGGGAGTTCAGGGGAGTAGGAGAATGTCTTCCAGAAAAATACATAAGC
TAGTTTCTGTTCTGTAAAGTGATATCTTTTCACTTGACCAAAGTTCCTCAATAACTTCCCAACCAGTGTTCAAAA
GCTGTGATTTTTGTCTCCCCTTCCCACCTCCAGCCAAGGAGCAGCCCTGCCAGGGGAATTTAGGTGTGGGTAC
CCGGGGAGCACCCCGTTCCTGGACCCCAAGTGTTCATTTCTGGCTGAGGAAGGGTGGTTCATCCAGCTCCTGCC
CTACCCTCTCACTTAAGTGGAGCTTTGGGACGCACCTCCACAGTGGGAGGTGGTGGTGGGGTGGCGGTGGCGGG
GCCTCACGACAGCTTGGTGTGGTAAGAGGAAGCCCGTGGTTCTGGCTAGGCTCTCATGTCCAGACAGCGGGGAC
CAGGGGAAAACCCAGCCCTTCTGTAATCCCCCTTCATTTCTTACCTTCTTCTCTCTGTTTAGCAAAGGAGG
GCAGCTCACTTGGATGTCTTACAACGCCCCCTGGCCCCAGGTTGAGCAATAAGAAACCAGAACCTTGGCGGCCAG
TGGCCCGGGCCAGTTCAGGCCGCTTCCCCCTCCTCTGCTGGGGCCATTGAGCCCCAGCCTCCAGGGGCCCCGGT
GCGTTTGCAAGCCAGTGGCCACTGTCCGGGCTGTGATGGCACCAAGGCAGGTGGAGCACCAGGTACCACACAGCT
GGGCTTCCCACAGGCTTTCCCGCGGGGGTCTCAGGGAGCTTCTCCCCAGCGCTGCTCGGAGTCTGCAGGAAGT
GCCTTGTCTCTCTTAGCCCCGCTACTCCATACAGTATTAGGTGAGGATGGATGCGGGCGCTGTCTTGGCGGGAAG
TCACTGTTGAAGTTGCAGTGGCTTGTTCACACCTGTGGGAAGAGAAGTGAAGACTTTCTCCTTGCAATAAAAGT
CTGAAGTGTGAAAAA

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FIGURE 777

MFSWVSKDARRKKEPELFQTVAEGLRQLYAQKLLPLEEHYRFHEFHSPALEDADFDNKPMVLLVXQYSTGKTTFI
RHLIEQDFPGMRIGPEPTTDSFIAMHGPTEGVVPGNALVVDPRRPFRKLNAFGNAFLNRFMCAQLPNPVLDSIS
IIDTPGILSGEKQRISRGYDFAAVLEWFAERVDRIILLFDAHKLDISDEFSEVIKALKNHEDKIRVVLNKADQIE
TQQLMRVYGALMWSLGKIINTPEVVRVYIGSFWSHPLLIPDNRKLFEEQDLFKDIQSLPRNAALRKLNLIKR
ARLAKVHAYIISSLKKEMPÑVFGKESKKELVNNLGEIYQKIEREHQISPGDFPSLRKMQELLQTQDFSKFQALK
PKLLDTVDDMLANDIARLMVMVRQEESLMP SQVVKGGAFDGTMNGPFGHGYGEGAGEGIHDVEWVVGKDKPTYDE
IFYTTLSPVNGKITGANAKKEMVKS KL PNTVLGKIWKLADVDKDGLLDDEEFALANHLIKVKLEGHELPADLP PHL
VPPSKRRHE

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FIGURE 778

GTCATCTGGCCAGCCCCGCCCTCCTCCCGGCGTCAGCCCCCAGAGGCCGCGCGGGGCCCGGGCTTCGGCCGA
TCAGCCCCGGGAGGCCCCGCGCGCCCCCTTGGCCCCGCGCGCCCGTGGTCACAGTGGAAGAGGCGCCGCGCTGCG
CTGCCCCGAGGAGCCGTCGCGCGCCCCGCTTCTGTTTCGGCTGGTTCTTGCCAGCTCGAGGACAAAACACGCGTGC
GCGCGGCGGGGCGAGCGCGCTCGCCGCTCAGTCGCCAGCGCCGGGCGCAGTCCGCCTTTTTCCGGAGCAGACTGG
CCGCGGTGCTAGTCGGTAGCAGCGGCCGCGCAGCGGCTCCGCACTGGCGAACCAGAGGGCAGAAAAAGCGGGGT
TGACGGCTTTTTGGTAGGAGTGGGCTGGACCGGACGCCAGAGACAAAGGCTCCCAAGGCAAGAGGGACTGTGGCC
CTGCGTCGGCTCTGCTCGGAAGTCTGACCCAGGAATTTACGCCCTTCGTTTTTCTTCTGATTCTTCTCTT
CTCCCAAGCCCGCGTCCCTCAGCGTGGCCTCTCTCCTTGCCGGGAGGGCCGCGATGGAGGTCCCGCCAGGCT
TTCCCATGTGCCGCGCCATTGTTCCCTCCGCTCCCGCTACTTTAGCCTCCCGCAGCCTCTCCATTGGCGGCC
GCGGCCGCGCGGCAGCTAGCCCCGCTCCTCCCTTCGCTCGCTCCAGCTCCGCCGGCAGGGGGCGCGCCGGGC
CCAGCGCCACGTACCGCCAGCAGCCCTCCCGATTGGCGGGCGGGGCGGCTATAAAGGGAGGGCGCAGGCGGCG
CCCGGATCTCTTCGCGGCCATTTTAAATCCAGCTCCATACAACGCTCCGCCGCGCTGCTGCCGCGACCCGGAC
TGCGCGCCAGCACCCCCCTGCCGACAGCTCCGTCATATGGAGGATATGAACGAGTACAGCAATATAGAGGAATT
CGCAGAGGGATCCAAGATCAACGCGAGCAAGAATCAGCAGGATGACGGTAAATGTTTATTGGAGGCTTGAGCTG
GGATACAAGCAAAAAAGATCTGACAGAGTACTTGTCTCGATTTGGGGAAGTTGTAGACTGCACAATTAAACAGA
TCCAGTCACTGGGAGATCAAGAGGATTTGGATTTGTGCTTTTCAAAGATGCTGCTAGTGTGATAAGGTTTTGGA
ACTGAAAGAACACAACTGGATGGCAAATTGATAGATCCCAAAGGGCCAAAGCTTTAAAGGGAAAGAACCTCC
CAAAAAGGTTTTTGTGGGTGGATTGAGCCCGGATACTTCTGAAGAACAATTAAGAATATTTTGGAGCCTTTGG
AGAGATTGAAAATATTGAACTTCCCATGGATACAAAACAAATGAAAGAAGAGGATTTTGTTTTATCATATAC
TGATGAAGAGCCAGTAAAAAATTGTTAGAAAAGCAGATACCATCAAATTGGTTCTGGGAAGTGTGAAATCAAAGT
TGCACAACCCAAAGAGGTATATAGGCAGCAACAGCAACAACAAAAGGTGGAAGAGGTGCTGCAGCTGGTGGACG
AGGTGGTACGAGGGGTGCTGGCCGAGGTGAGGGCCAAAAGTGAACCAAGGATTTAATAACTATTATGATCAAGG
ATATGGAAATTACAATAGTGCCTATGGTGGTGTATCAAACTATAGTGGCTATGGCGGATATGATTATACTGGGTA
TAACTATGGGAAGTATGGATATGGACAGGGATATGCAGACTACAGTGGCCAACAGAGCACTTATGGCAAGGCATC
TCGAGGGGGTGGCAATCACCAAAACAATTACCAGCCATATTAAGGAGAACATTGGAGAAAACAGGAGGAGATGT
TAAAGTAACCCATCTTGCAGGACGACATTGAAGATTGGTCTTCTGTTGATCTAAGATGATTATTTTGTAAAGAC
TTTCTAGTGTACAAGACACCATTGTGTCCAAGTATATAGCTGCCAATTAGTTTTCTTTGTTTTTACTTTGTCC
TTTGCTATCTGTGTTATGACTCAATGTGATTGCTTTTCTGCGTCAGGTACTACATAGCTCTGTAAAAAATGTAATTTAAATA
AGCAATAATTAAGGCACAGTTGATTTTGTAGAGTATTGGTCCATACAGAGAACTGTGGTCCCTTTATAAATAGCC
AGCCAGCGTCACCTCTTCTCCAATTTGTAGGTGTATTTATGCTCTTAAGGCTTCATCTTCTCCCTGTAAGTGA
GATTTCTACCACACCTTTGAACAATGTCTTTCCCTTCTGGTTATCTGAAGACTGTCCTGAAAGGAAGACATAAG
TGTTGTGATTAGTAGAAGCTTTGTAATCATAACACAATGAGTAATTCTTGTATAAAAGTTCAGATACAAAAGGAG
CACTGTAAAAGTGGTAGGAGCTATGGTTTAAGAGCATTGGAAGTAGTTACAACCAAGGATTTTGGTAGAAAGGT
ATGAGTTTGGTCGAAAAATTAATAAGTGGCAAATAAGATTTAGTTGTGTTTTCTCAGAGCCGCCACAAGATTG
AACAAAATGTTTTCTGTTTGGGCATCCTGAGGAAGTTGTATTAGCTGTTAATGCTCTGTGAGTTTAGAGAAAAGT
CTTGATAGTAAATCTAGTTTTTGACACAGTGCATGAAGTAAATATTTACATATTCAGAAAGGAATAG
TGGAAAAGGTATCTTGGTTATGACAAAGTCATTACAAATGTGACTAAGTCATTACAAATGTGACTGAGTCATTAC
AGTGGACCTCTGGGTGCATTGAAAAGAAATCCGTTTTATATCCAGGTTTCAGAGGACCTGGAATAATAAAGCT
TTGGATTTTGCATTCACTGTAGTTGGATTTTGGGACCTTGGCCTCAGTGTATTTACTGGGATTGGCATACGTGT
TCACAGGCAGAGTAGTTGATCTCACACAACGGGTGATCTCACAAAAGTGGTAAGTTTCTTATGCTCATGAGCCCT
CCCTTTTTTTTTTTTAAATTTGGTGCCGCACTTTCTTAAACAATGATTCTACTTCTGGGCTATCACATTATAATG
CTCTTGGCCTCTTTTTTGTGCTGTTTTGCTATTCTTAAACTTAGGCCAAGTACCAATGTTGGCTGTTAGAAGGG
ATTCTGTTTCAATCAACATGCAACTTTAGGGAATGGAAGTAAGTTCAATTTTAAAGTTGTGTGGTCAGTAGGTGCGG
TGTCTAGGGTAGTGAATCCTGTAAGTTCAAATTTATGATTAGGTGACGAGTTGACATTGAGATTGTCCTTTTCCC
CTGATCAAAAAAATGAATAAAGCCTTTTTTAAACG

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FIGURE 779

MEVPPRLSHVPPPLFPPSAPATLASRSLSHWRPRPPRQLAPLLPSLAPSSARQGARRAQRHVTAQQPSRLAGGAAI
KGGRRRRPDLFRRHFKSSSIQRSAAAAAATRTARQHPPADSSVTMEDMNEYSNIEEFAEGSKINASKNQDDGKM
FIGGLSWDTSKKDLTEYLSRFGEVVDCTIKTDPVTGRSRGFGFVLFKDAASVDKVLELKEHKLDGKLIDPKRAKA
LKGKEPPKKVFGGLSPDTSEEQIKEYFGAFGEIENIELPMDTKTNERRGFCFITYTDEEPVKKLLESRYHQIGS
GKCEIKVAQPKEVYRQQQQQKGGRGAAAGGRGGTRGRGRGQGQNWQGFNNYDQGYGNYNSAYGGDQNYSGYG
GYDYGNYGNYGYGQGYADYSGQQSTYGKASRGGGNHQNNYQPY

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FIGURE 780

CCGCTCTGTCTGCTTCGCCACCTTCTCCCCGAGCACTGCCCGGCCGGCCGCCATGGCTAACGTGGCTGACACGAA
GCTGTACGACATCCTGGGCGTCCCGCCCGGCCAGCGAGAACGAGCTGAAGAAGGCATACAGAAAGTTAGCCAA
GGAATATCATCCTGATAAGAATCCAAATGCAGGAGACAAATTTAAAGAAATAAGTTTTGCATATGAAGTACTATC
AAATCCTGAGAAGCGTGAGTTATATGACAGATACGGAGAGCAAGGTCTTCGGGAAGGCAGCGGCGGAGGTGGTGG
CATGGATGATATTTTCTCTCACATTTTTGGTGGGGGATTGTTCCGGCTTCATGGGCAATCAGAGTAGAAGTCGAAA
TGGCAGAAGAAGAGGAGAGGACATGATGCATCCACTCAAAGTATCTTTAGAAGATCTGTATAATGGCAAGACAAC
CAAAC TACAACCTTAGCAAGAATGTGCTCTGTAGTGCATGCAGTGGCCAAGGCGGAAAGTCTGGAGCTGTCCAAAA
GTGTAGTGCTTGTGCGAGGTGCGAGGTGTGCGCATCATGATCAGACAGCTGGCTCCAGGGATGGTACAACAGATGCA
GTCTGTGTGCTCTGATTGTAATGGAGAAGGAGAGGTAATTAATGAAAAAGACCGCTGTAAAAAATGTGAAGGGAA
GAAGGTGATTAAAGAAGTCAAGATTCTTGAAGTCCACGTAGACAAAGGCATGAAACATGGACAGAGAATTACATT
CACTGGGGAAGCAGACCAGGCCCCAGGAGTGGAAACCCGGAGACATTGTTCTTTTGCTACAGGAGAAAGAACATGA
GGTATTTT CAGAGAGATGGGAATGATTTGCACATGACATATAAAATAGGACTTGTTGAAGCTCTATGTGGATTTCA
GTTTACATTTTAAGCACCTTGATGGACGTCAGATTGTGGTGAAATACCCCCCTGGCAAAGTAATTGAACCAGGGTG
TGTTTCGTGTAGTTTCGAGGTGAAGGGATGCCGCAGTATCGTAATCCCTTTGAAAAAGGTGATCTTTACATAAAGTT
TGATGTGCAGTTTCCTGAAAACAAC TGGATCAACCCAGACAAGCTTTCTGAACTAGAAGATCTTCTGCCATCTAG
ACCGGAAGTTCCTAACATAATTGGAGAAACAGAGGAGGTAGAGCTTCAGGAATTTGATAGCACTCGAGGCTCAGG
AGGTGGTCAGAGGCGTGAAGCCTATAATGATAGCTCTGATGAAGAAAGCAGCAGCCATCATGGACCTGGAGTGCA
GTGTGCCCCATCAGTAAACTCTGCAAACAAATTGCACAGGTGGATTTTCTTTCCACATTTGCCTGATTTGTTCTCA
GCAATCCAGCTGGAGTGTCTTATCAATCCCAGATGAACTGAGGGACATCTGTTGGTCTATGTATAACTTTTAAAA
TTGGTATAGTATCTACAGAGTGTATAATTTAACTAACCACAAAGCTTTACATCTTCATTTTGACTGTTCCATAG
CAAAATAAAGCACTTGAAAGGAAACAAAACCTCCCTTTACACATGGATTATTATAAGTTTCAATCCTGGTATCTG
TGCTTGATTTTTATCAGTTTTTGTGTAAATTTTTATGTTTCATATTTTAAATTTAAATCCCACATTGTAAAGTTTG
TACAATTTGTCCTGAAGCTTTTGTGTTTGGCTGCACCTGCATAAGCTGCTACAAATAAAATAAAAAATTTCATAGC
CTGTATCTATCATTTTAAATGCATGGAAAAAAATGGGCTTTGCACACAATGGGTTTGGAGCTGACTGGGAACAATG
GAAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTTTGTTTTTGGGTTTTGTTTTTTTTTTGTTTTTTTTTTTT
TTTTTTTACCATTTTGTGAAAGGTTTTTGAATAAATAAAGCGGTTGGTGTAATTTAAAAA AAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 781

MANVADTKLYDILGVPPGASENELKKAYRKLAKKEYHPDKNPNAGDKFKEISFAYEVLSNPEKRELYDRYGEQGLR
EGSGGGGGMDDIFSHIFGGGLFGFMGNQSRSRNGRRRGEDMMHPLKVSLEDLYNGKTTKLQLSKNVLCSSACSGQG
GKSGAVQKCSACRGRGVRIMIRQLAPGMVQQMQSVCSDCNGEGEVINEKDRCKKCEGKKVIKEVKILEVHVDKGM
KHGQRITFTGEADQAPGVEPGDIVLLLQEKHEHEVFQRDGNLHMTYKIGLVEALCGFQFTFKHLDGRQIVVKYPP
GKVIEPGCVRVVRGEGMPQYRNPFEKGDLYIKFDVQFPENNWINPDKLSELEDLLPSRPEVPNIIGETEEVELQE
FDSTRGSGGGQRREAYNDSSDEESSHHGPGVQCAHQ

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FIGURE 782

C ICTGAGGAGAAGCAGCAGCAAACATTTGCTAGTCAGACAAGTGACAGGGAATGGATTCCAAACAGCAGTGTGTA
AAGCTAAATGATGGCCACTTCATGCCTGTATTGGGATTTGGCACCTATGCACCTCCAGAGGTTCCGAGAAGTAAA
GCTTTGGAGGTCACAAAATTAGCAATAGAAGCTGGGTTCGCCATATAGATTCTGCTCATTATATAACAATAATGAG
GAGCAGGTTGGACTGGCCATCCGAAGCAAGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCA
CTTTGGTCCACTTTTCATCGACCAGAGTTGGTCCGACCAGCCTTGGAATACTCACTGAAAAAAGCTCAATTG
ATGTTGACCTCTATCTTATTTCATTCTCCAATGTCTCTAAAGCCAGGTGAGGAACTTTCACCAACAGATGAA
TGGAAGTAATATTTGACATAGTGGATCTCTGTACCACCTGGGAGGCCATGGAGAAGTGTAAAGGATGCAGGA
TTGGCCAAGTCCATTGGGGTGTCAAACCTCAACCGCAGGCAGCTGGAGATGATCCTCAACAAGCCAGGACTCAAG
TAAGCCTGTCTGCAACCAGGTAGAATGTCATCCGTATTTCAACCGGAGTAAATTGCTAGATTTCTGCAAGTCG
GATATTGTTCTGGTTGCCTATAGTGCTCTGGGATCTCAACGAGACAAACGATGGGTGGACCCGAACCTCCCG
CTCTTGAGGAGCCAGTCCTTTGTGCCTTGGCAAAAAAGCACAAGCGAACCCAGCCCTGATTGCCCTGCGC
TCAGCTGCAGCGTGGGGTTGTGGTCCTGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTT
TGAGTTCCAGTTGACTGCAGAGGACATGAAAGCCATAGATGGCCTAGACAGAAATCTCCACTATTTAACAGT
TAGTTTTTGCTAGCCACCCTAATTATCCATATTCAGATGAATATTAACATGGAGAGCTTTGCCTGATGTCTACC
AGAAGCCCTGTGTGTGGATGGTGACGCAGAGGACGTCTCTATGCCGGTGACTGGACATATCACCTCTACTTAAAT
CCGTCTGTTTAGCGACTTCAGTCAACTACAGCTGAGTCCATAGGCCAGAAAGACAATAAATTTTTATCATTTTG
AAAT

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FIGURE 783

MDSKQQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAIEAGFRHIDSAHLYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSTFHRPELVRPALENSLKKAQLDYVDLYLIHSPMSLKPGEELSPTDENGKVIFDIVDLCTTWEA
MEKCKDAGLAKSIGVSNFNRRQLEMILNKPGLKYKPVCNQVECHPYFNRSKLLDFCKSKDIVLVAYSALGSQRDK
RWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTAEDMKAIDGLD
RNLHYFNSDSFASHPNYPYSDEY

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FIGURE 784

GCATCTGCGCAGGCGCCCGGCTCCTAAGTCTACCCAGGAAGTACCCTGCTCTCTCCTTTCCCTGTTAGACATGG
GCACTCCACAGAAGGATGTTATTATCAAGTCAGATGCACCGGACACTTTGTTATTGGAGAAACATGCAGATTATA
TCGCATCCTATGGCTCAAAGAAAGATGATTATGAATACTGTATGTCTGAGTATTTGAGAATGAGTGGCATCTATT
GGGGTCTGACAGTAATGGATCTCATGGGACAACCTTCATCGCATGAATAGAGAAGAGATTCTGGCATTATTAAGT
CTTGCCAACATGAATGTGGTGGAAATAAGTGCTAGTATCGGACATGATCCTCATCTTTTATACACTCTTAGTGCTG
TCCAGATTCTTACGCTGTATGACAGTATTAATGTTATTGACGTAAATAAAGTTGTGGAATATGTTAAAGGTCTAC
AGAAAGAAGATGGTTCTTTTGTCTGGAGATATTTGGGGAGAAATTGACACAAGATTCTCTTTTGTGCGGTGGCAA
CTTTGGCTTTGTTGGGGAAGCTTGATGCTATTAATGTGGAAAAGGCAATCGAATTTGTTTTATCCTGTATGAACT
TTGACGGTGGATTTGGTTGCAGACCAGGTTCTGAATCCCATGCTGGGCAGATCTATTGTTGCACAGGATTTCTGG
CTATTACAAGTCAGTTGCATCAAGTAAATTCTGATTTACTTGGCTGGTGGCTTTGTGAACGACAATTACCCTCAG
GCGGGCTCAATGGAAGGCCGGAGAAGTTACCAGATGTATGCTACTCATGGTGGGTCTCGCTTCCCTAAAGATAA
TTGGAAGACTTCATTGGATTGATAGAGAGAACTGCGTAATTTCAATTTAGCATGTCAAGATGAAGAAACGGGGG
GATTTGCAGACAGGCCAGGAGATATGGTGGATCCTTTTCATACCTTATTTGGAATTGCTGGATTGTCACTTTTGG
GAGAAGAACAGATTAAACCTGTTAATCCTGTCTTTTGCATGCCTGAAGAAGTGCTTCAGAGAGTGAATGTTTCAGC
CTGAGCTAGTGAGCTAGATTTCATTGAATTGAAAGTTGCATAGTATAGTTTTGCCATTTTAACATTTCTGTATTTG
AAGTGCTTATCGAATCTAAAAGTGACTACTGTTAATATTTTGTATATTGTGTTAAATTAATTTTAATAAATTATA
TAATTATACATATTGTAAAATAAAGACCGGTATTTTATTTTCTGCTTTTTATTCTGAAGTCCTGTTATTCTGACT
ACAGTTCTTTGTGTATACTTCTGTGTCTGTTATGTTCAATAACTGAGCTAACATAAAATAACTCTAGGTTTCTAC
TTGATTTTTCCCCCATGTATACCTTTCATCTGTTCTATAGCAAGTTGATGTAAATTGGTTTGTCAACAAGAATGT
TAACTGATGAAAGTGATAGAACCCATACATGAATTAAATGATGCACAAAATAAATGGCTGTTGAAATTTGAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 785

MGTPQKDVI IKSDAPDTLLLEKHADYIASYGSKDDYEYCMSEYLRMSGIYWGLTVMDLMGQLHRMNREEILAFI
KSCQHECGGISASIGHDPHLLYTL SAVQILTLYDSINVIDVNKVVEYVKGLQKEDGSFAGDIWGEIDTRFSFC AV
ATLALLGKLDAINVEKAIEFVLS CMNFDGGFGCRPGSESHAGQIYCCTGFLAITSQLHQVNSDLLGWWLCERQLP
SGGLNGRPEKLPDVCYSWWVLASLKIIGRLHWIDREKLRNFILACQDEETGGFADRP GDMVDPFHTLFGIAGLSL
LGEEQIKPVNPVFCMPEEVLQRVNVQPELVS

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FIGURE 786A

GCGGGGACCGCGACGAGCCCGGGTCGCCGTTGGCAGCAGCAGCAGCAACACCAGCAGCAGCAGCAGCCCCGGCGG
CGGCGCGGAACCCCGAGCGCCCGGGCGCACCCCGGCTTCCCGGAGCGCGACGCGGCGGCAGCAGCCCCGGTGCGG
CCGCGCGCGCCTTAGGCTCGGCCCGCGGCTCGGGGACCCGACTCCCGGCCAGCGAGCGGTCCCCGGCGCC
GCCCAGAGCCCCAGGAGGCAGCGGCCGAGAGCCCCGGGGGAGGGGGCGGCCACCGCCGCGCCGGGCATCCTC
AGGAGCCCCAGAGCGCGGAGGGCGCGGCCGCCGAGCGGTGCTGGCCCCCGGGGCTCCCCGACCTTCCCCAC
CGCTGGGCCCCGAGGGACGCGTGATCGGGCGGGCGGCCGGGCGCAAGGGTGGGAGGGAGCGCCCCCGCCGCGC
CCCCTCCGCCCCCTCGCCCCAAACCCCTGGGCGCCGGGCCCGGGCCGCGCGGCCTGAAGCGCCCGCGATGGCGAGC
CCGCCGCGGCACGGGCCCGCCGGGCGGCGAGCGGAGACGGCCCCAACCTCAACAACAACAACAACAACAAC
AACCACAGCGTGCGCAAGTGCGGCTACCTGCGCAACGAAGAGCATGGCCACAAGCGCTTCTTCGTGCTGCGCGGA
CCCGGCGCGGGCGGCGACGAGGCGACGGCGGGCGGGGGTGGCGCCGCAACCGCCGCGGCTCGAGTACTACGAG
AGCGAGAAAAAGTGGCGGAGCAAGGCAGGCGCGCGAAACGGGTGATCGCTCTCGACTGCTGCCTGAACATCAAC
AAGCGCGCCGACGCCAAGCACAAGTACCTGATCGCCCTCTACACCAAGGACGAGTACTTCGCCGTGGCCGCCGAG
AACGAGCAGGAGCAGGAGGGCTGGTACCGCGCGCTCACCGACCTGGTCAGCGAGGGCCGCGCGGCCGCCGAGAC
GCGCCCCCGCCGCCGCGCCCGCGCGTCTGACGCGCTCCCTGCCCGCGCCCTGGGCGGCTCTGCCGCGCC
GCCGGGGCCGAGGACAGCTACGGGCTGGTGGCTCCCGCCACGGCCGCCTACCGTGAGGTGTGGCAGGTGAACCTG
AAGCCCAAGGGTCTGGGCCAGAGCAAGAACCTGACGGGGTGTACCGTCTGTGCCTGTCTGCGCGCACCATCGGC
TTCGTGAAGCTCAACTGCGAGCAGCCGTGGTGACGCTGCAGCTCATGAACATCCGCCGTGCGGCCACTCGGAC
AGCTTCTTCTTCATCGAGGTGGGCCGCTCGGCCGTACAGGCCCGGGCGAGCTGTGGATGCAGGCGGACGACTCG
GTGGTGGCGCAGAACATCCACGAGACCATCCTGGAGGCCATGAAGGCGCTCAAGGAGCTCTTCGAGTTCCGGCCG
CGCAGTAAGAGCCAATCGTCGGGGTCTGTCGGCCACGCACCCCATCAGCGTCCCGGCGCGCGCCGCCACCACCAC
CTGGTCAACCTGCCCCCAGCCAGACGGGCCTGGTGCGCCGCTCGCGCACCGACAGCCTGGCCGCCACCCCGCCG
GCGGCCAAGTGACGCTCGTGCCGGGTGCGCACCGCCAGCGAGGGCGACGGCGGCCGGGTGCGGGAGCGGCGGCC
GCGGCGCAGAGGCTGGTGTGGTGGCTGGGAGCCCCCTGAGCCCCGGGCCGGTGGCGCGCGCCCTGAGCCGCTCG
CACACCCTGAGCGGCGGCTGCGGCGGCCGCGGGAGCAAGGTGGCGCTGCTGCCGGCAGGGGGCGCGCTGCAACAC
AGCCGCTCCATGTCCATGCCCGTGGCGCACTCGCCGCCCGCCGCCACCAGCCCCGGTCCCTGTCTGTCAGCAGC
GGCCACGGCTCGGGTCTTACCCGCCGCCGCCCGGCCCGCACCCGCTCTGCCGCATCCGCTGCACCACGGCCCC
GGCCAGCGGCCCTCCAGCGGCAGCGCCTCCGCCTCGGGCTCCCCCAGCGACCCCGGCTTCATGTCCCTGGACGAG
TACGGCTCCAGCCAGGCGACCTGCGCGCCTTCTGCAGCCACCGAAGCAACACGCCCGAGTCCATCGCGGAGACG
CCCCCGCCCCGAGACGGCGGCGGGCGGGTGAGTTCTACGGGTACATGACCATGGACAGGCCCCCTGAGCCACTGT
GGCGCTCCTACCGCCGGGTCTCGGGGACGCGGCCAGGACCTGGACCGAGGGCTGCGCAAGAGGACCTACTCC
CTGACCACGCCAGCCGGCAGCGGCCGGTGGCCAGCCCTCCTCTGCCTCGCTGGATGAATACACCCTGATGCGG
GCCACCTTCTCGGGCAGCGGGGCCGCTCTGCCCCGCTCGCCCCGCTCCTCTCCCAAGGTGGCCTACCACCCC
TACCCAGAGGACTACGGAGACATCGAGATCGGCTCCACAGGAGCTCCAGCAGCAACCTGGGGGCGAGCAGCGGC
TACATGCCCATGACGCCCCGCGCGGCCCTTCGCGGGCAGTGGGAGCGGCAGCTGCAGGAGCGACGACTACATGCC
ATGAGCCCCGCCAGCGTGTCCGCCCCCAAGCAGATCTTGACGCCAGGGCCGCCGCCGCCGCCGCCGCCGCTG
CCTTCTGCGGGGCTGCGGGGCCAGCACCCACCTCTGCGGCGGGCAGGACATTCCCGGCGAGCGGGGGCGGCTAC
AAGGCCAGCTCGCCCCGCGAGAGCTCCCCGAGGACAGTGGGTACATGCGCATGTGGTGGGTTCCAAGCTGTCC
ATGGAGCATGCAGATGGCAAGCTGCTGCCCAACGGGGACTACCTCAACGTGTCCCCAGCGACGCGGTACCACG
GGCACCCCGCCGACTTCTTCTCCGAGCCCTGCACCCCGCGGGGAGCCGCTCAGGGGCGTTCCCGGCTGCTGC
TACAGCTCCTTGCCCCGCTCCTACAAGGCCCCCTACACCTGTGGCGGGACAGCGACCACTACGTGCTCATGAGC
TCCCCGTTGGGGCGCATCCTGGAGGAGGAGCGTCTGGAGCCTCAGGCCACGCCAGGGGCCAGCCAGGCGGCCAGC
GCCTTCGGGGCGGCCCCACGCGACCCCTCACCTGTAGTGCCTTCGCCCCGTCGGCGTAGCGGCCGCCGCTCA
GGTTTCTTGGGCCAGCGCGGCCGGGCGGTGAGGCCACGCGCCTGTCCCTGGAGGGGCTGCCAGCCTGCCAGC
ATGCACGAGTACCACTGCCACCGGAGCCCAAGAGCCCCGGCGAGTACATCAACATCGACTTTGGCGAGCCCGG
GCCCGCTGTGCGCGCCCGCGCCTCCCTGCTGGCGTGGCGGCCCTCGTCTCCTCGCTCTTGTCCGCCAGCAGC
CCGGCCTCGTCTGGGCTCAGGCACCCCGGGCACAGCAGCGACAGCCGGCAGCGGTCTCCGCTCTCCGACTAC
ATGAACCTCGACTTCAGCTCCCCCAAGTCTCTTAAGCCGGGCGCCCCGAGCGGCCACCCCGTGGGCTCCTTGGAC
GGCCTCCTGTCCCCGAGGCCTCCTCCCGTATCCGCCGTTGCCCCCGCTCCGTCCGCGTCCCCGTCTGCTGCT

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FIGURE 786B

CTGCAGCCGCCGCCACCGCCGCCGGCCCCGGGGGAGCTGTACCGCCTGCCCCCGCCTCGGCCGTTGCCACCGCC
CAGGGCCCGGGCGCCGCTCATCGTTGTCTCGGACACCGGGGACAATGGTGACTACACCGAGATGGCTTTTGGT
GTGGCCGCCACCCCGCCGAACCTATCGCGGCCCCCCGAAGCCAGAAGCTGCCCGCTGGCCAGCCCCGACGTCG
GGCGTGAAGAGGCTGAGCCTCATGGAGCAGGTGTCGGGAGTCGAGGCCTTCCTGCAGGCCAGCCAGCCCCGGAC
CCCCACCGCGCGCCAAGGTCATCCGCGCAGACCCGAGGGGGGGCCCGCCGCCACAGTTCCGAGACCTTCTCC
TCCACCACGACGGTCACCCCGTGTCCCCGTCTTCGCCACACAACCCCAAGCGCCACAACCTCGGCCCTCCGTGGAA
AATGTCTCTCTCAGGAAAAGCAGCGAGGGCGGCGTGGGTGTGGGCCCTGGAGGGGGCGACGAGCCGCCACCTCC
CCACGACAGTTGCAGCCGGCGCCCCCTTTGGCACCAGAGGGCCGGCCGTGGACCCCGGGTCAGCCCGGGGCTTG
GTCGGTTGTCTGGGAGCGGTGGATCGCCCATGCGCAGAGAGACCTCTGCCGGCTTCAGAATGGTCTCAACTAC
ATCGCCATCGACGTGAGGGAGGAGCCCGGGTGCACCCAGCCGACCGCCCGCCCGCCGCTTCTCAGCCG
GGAGACAAGAGCTCCTGGGGCCGGACCCGAAGCCTCGGGGGTCTCATCAGCGCTGTGGGCGTCGGCAGCACCGGC
GGCGGGTGCGGGGGGCCGGGTCCCGGTGCCCTGCCCTTGCCAACACCTACGCCAGCATTGACTTCTTGTCAC
CACTTGAAGGAGGCCACCATCGTGAAAGAGTGAAGATCTGTCTGGCTTTATCACCAGGATGTCACATGTCAGAGA
ATATCATTAAAAGAAGACGCTCAGCGCTGTTTCAGCCCGAAGCTGCTTGCAGTTTCTTTTGGATCTGAGCAATG
ACTGTGTTTGGAAACATCTGTGGACTCTGATAGATGGGGCACAACAAGGCAAGGTCACCTGCCTCTTCCCTTGT
TCCCGGATGGGCATTTCATCATTGTGCTGTTTGCCTTTTGTGTTTGTGTTTAAACAAAATTAGCTGAAGAAGTT
ATTCTCAAGAAAATTGGATGTTTTATTGGCCTTCTTAAATTGTGGCCAGTGTCTTTTAATTTCTTCTTTTC
CTTTTGGCAAAGCAGATATAACCTCAGCATGCTAGGAGAGTGCACCCGTACCTATGGAAAGTGGTAAATCTGGT
ATTTACTGGCTTACACTCAAAACGACCACAGTCCTACCTCAGTTCAAGGTAAAGCCGGATTTCCGTGGCGGGGGT
CCACAGGACCTCCTGTAGTAGCCCTGCGCTGTGTGTCTGGAGCGCGTCTCGCCTTATTTAAATGGTCCAGTAG
ACAGCTGCTTGTGGATTCCAGTGCAGGTACCTGCGATGTTTACGTCCACACCGAGCCAGTGTGGGACTGACAT
TTCTCAATGGAAGTGAAATTTGGGATTGGACTTTGAAGACGATTACTAAATAATAATTATTATATGTAAGTGAAG
CAACCTACTTTTGAATACTCACTGTATTGGGTAGTGGGAGGTGGGAGGGAAGGGCTTTGGGAAGGGGATGAATAT
CTCTTTTTTACCTTTAACAGACTTGTTTAACTTCTCTCGATGTAGATGTTTATGTAGGTACTTCACATTGCAAACGC
CTTTTATTCTATTTACAAGCTCAGATGTCTCTGCTCTCCTGAATCTTGGGCATGCCTTTCTGTAAACAAAATCC
CTGTAGGCGTGCTAGCAATTCAGGGTGGTCCGGGTTTGGCAGATTTGATTTTTAAAAAATGTATTATCTTTAAT
AAAAATGTTATTATGTCAACCAGTGAGGCTGCCCTGAACAAAAAAGAAAAAGAAAAAAGGAAAGA
AAGAACTGATAAAAAGAGGCATCCAGCCCCTATGTTATTGATGGAAAAAGAAAAAGAAAGCAATCTCGCA
GTACATGTTACTTGTGAAAAAATTCCGGACAAGACTACCCCTGTTTTATGTTTTCAGTATTCTGAAAAATACCAG
TGTGTGGCAGTTCTCGCAGATGTTACCTAAACTGCTGAACCTGACCGGCAGAATGTTCTGCCGTTTTCTGCTCC
CTCGACACTTGATTGGAGGGCTGTGACCTCTCCTCCCGTGGGGGCTTCCCAGTGCCTATCTTCTCTGATAGTC
ATGGAGAGGTTACACTAATTCATTGGAGATGTAAGTTGTTGGTTTTGTTTTGTTTTGTTTTGTTTTAGAAAAATATATA
TAAATATATAATAGATATCTATCGCTATAGAATAATGCATTAATAAAATGAGGCTTTTTTAGAGGAAGACCAAAA
AATTCAATGTCTTAAAAATATATTTAATGGCAATGCAAAAGTCTTCTGCTTCCGTGCTGAACCTTTAGAACAGAG
GATTGTATTGCAAGACAAAGTTGAATGTAAAGTGATCTCCCTGAACATTTTAAAGTTTTACTTTTCTGAAATTA
TACATCACAGCAGTGCATAGGCCATATAATGTTAGCTGGAAGGTCAATTCAGTGTATGATATACTTTATTAAGA
TGTATAAAACATCCTGAAGTTTTTATTTAGTTTTGGGAATAGGCATCAGTGGGTGGTATTTGCTTTGTAACCTCC
CCCAGGTACGATAGGGACTGAATATGGACCCTGCTGAAAGCAGTGTATTGACGCATATTTAACTCGCCCTCTATC
CGTAGAGTAGTCATGACACTATACAGATGGTTCGTGTTTCACTGACGCTTAAACAAGCAAAATACACAGATGA
TAATATGCTAAATTTTCTCTATCCTGTACATTTTCAAAAAAGGCATATGCAATATTTACATTTTTAATTTAGTT
TACAGAAATGGAACCAAAATGTATAAATGTTATGTTTGCTAAAACTTCACAATGTATATTGGGTCTTTGTACATTT
TGCCTGACTTACCTTAAATTTAAATATTTTTTGTATATAAACTTTAACAGTTATTAACAGTGTTTTCTTTT
GGGTACGTATTGTTTCTGGATATCAAGATGTTAAATATATTTCTTGCTATTGTGATATGACAAGAGACTTAACTT
ATCTTGCTCTGTCTTCCACTGTACACGCTGTATATAGGGGTCAATGTGATGCTGCTGGAGACGAGAATAAACTGG
ACTAGAATAGTGATTGATTTAGTCTGTATTGATCATGGATGCCCTCCTTAATAGCCATATGCAATAAAATAAA
GTACATTATTTATGAAATGAA

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FIGURE 787

MASPPRHGPPGPASGDGPNLNNNNNNNNHNSVRKCGYLNEEHGHRFFVLRGPGAGGDEATAGGGSAPQPPRLE
YYESEKKWRSKAGAPKRVIALDCCLNINKRADAKHKYLIALYTKDEYFAVAAENEQEQEGWYRALDLDVSEGRAA
AGDAPPAAAPAASCSASLPGALGGSAGAAGAEDSYGLVAPATAAYREVWQVNLKPKGLGQSKNLTGVYRLCL SAR
TIGFVKLNCEQPSVTILQLMNIRRCGHSDSFFFFIEVGRSAVTGPGELWMQADDSVVAQNIHETILEAMKALKELFE
FRSKSQSSGSSATHPI SVPGARRHHHLVNLPPSQTGLVRRSRDLSLAATPPAAKCSSCRVRTASEGDGGRAAG
AAQRLVSVAGSPLSPGPVRAPLSRSHTLGGCGGRGSKVALLPAGGALQHSRSMSPVAHSPPAATSPGSL S
GGHSGSYPPPPGPHPLPHPLHHGPGQRPSSGSASASGSPSDPGFMSLDEYGSSPGDLRAFCSHRSNTPE SI
AETPPARDGGGGGEFYGYMTMDRPLSHCGRSYRRVSGDAAQDLDRGLRKRTYSLTTPARQRPVQPSSASLDEYT
MPATFSGSAGRLCPSCPASSPKVAYHPYPEDYGDIEIGSHRSSSSNLGADDGYMPMTPGA AFAGSGSGSCRSD D
MSPASVSAPKQILQPRAAAAAAAAVPSAGPAGPAPTSAAGRTFPASGGGYKASSPAESSPEDSGYMRMWCGS
MEHADGKLLPNGDYLNVSPSDAVTTGTPPDFSAALHPGGEPLRGVPGCCYSSLPRSYKAPYTCGGDS DQYV
SSPVGRILEEERLEPQATPGPSQAASAFGAGPTQPPHPVVPSPVRRSGRRSGFLGQRGRAVRPTRL SLEGLPS
SMHEYPLPPEPKSPGEYINIDFGEPPGARLSPPAPLLASAASSSSLLSASSPASSLGSGTPGTSSDSRQRSPL
LYMNLDFSSPKSPKPGAPSGHPVGS LDGLLSPEASSPYPLPPRPSASPSSSLQPPPPPPAPGELYRLPPASAV
ATAQGPGAASSLSSDTGDNGDYTEMAFGVAATPPQPIAAPPKPEAA RVASPTSGVKRLSLMEQVSGVEAFLQASQ
PPDPHRGAKVIRADPQGGRRRHSSETFSSTTTVTPVSPSFAHNPKRHNSASVENVSLRKSSEGGVGVGPGGGDEP
PTSPRQLQPAPPLAPQGRPWTPGQPGGLVGCPGSGGSPMRRETSAGFQNGLN YIAIDVREEPGLPPQPQPPPPPL
PQPGDKSSWGRTRSLGGLISAVGVGSTGGGCGGPGPGALPPANTYASIDFLSHHLKEATIVKE

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FIGURE 788A

GGGTGATT CAGCGCCCGGCGAGGCGGAACGGGCCGCAAGAGGAGGAGGGGAGAGCCCGTCCGCGCCTGGGCTCCC
GGGGTGGCACGAGCCCGCGGCCGGAGTGCGAGGCGGAGGCGAGGAGGCCGCGGGGACGGGAGGCGAGGCCGGCCG
GGCCCCGAAGCCATGGAGAACGCGCACACCAAGACGGTGGAGGAGGTGCTGGGCCACTTCGGCGTCAACGAGAG
TACGGGGCTGAGCCTGGAACAGGTCAAGAAGCTTAAGGAGAGATGGGGCTCCAACGAGTTACCGGCTGAAGAAGG
AAAAACCTTGCTGGAACCTTGATTGAGCAGTTTGAAGACTTGCTAGTTAGGATTTTATTACTGGCAGCATGTAT
ATCTTTTGTGGCTTGCTTTGAAGAAGGTGAAGAAACAATTACAGCCTTTGTAGAACCTTTTGTAAATTTTACT
CATATTAGTAGCCAATGCAATTGTGGGTGTATGGCAGGAAAGAAATGCTGAAAATGCCATCGAAGCCCTTAAGGA
ATATGAGCCTGAAATGGGCAAAGTGTATCGACAGGACAGAAAGAGTGTGCAGCGGATTAAAGCTAAAGACATAGT
TCCTGGTGATATTGTAGAAATTGCTGTTGGTGACAAAGTTCCTGCTGATATAAGGTTAACTTCCATCAAACTCTAC
CACACTAAGAGTTGACCAAGTCAATTCTCACAGGTGAATCTGTCTCTGTCAAGCACACTGATCCCGTCCCTGA
CCCACGAGCTGTCAACCAAGATAAAAAGAACATGCTGTTTTCTGGTACAAACATTGCTGCTGGGAAAGCTATGGG
AGTGGTGGTAGCAACTGGAGTTAACACCGAAATTGGCAAGATCCGGGATGAAATGGTGGCAACAGAACAGGAGAG
AACACCCCTTCAGCAAAACTAGATGAATTGGGGAACAGCTTTCCAAAGTCATCTCCCTTATTTGCATTGCAGT
CTGGATCATAAATATTGGGCACCTCAATGACCCGGTTCATGGAGGCTCCTGGATCAGAGGTGCTATTTACTACTT
TAAATTGCAGTGGCCCTGGCTGTAGCAGCCATTCTGAAGGTCTGCCTGCAGTCATCACCACTGCCTGGCTCT
TGGAACCTCGCAGAATGGCAAAGAAAAATGCCATTGTTCAAGCCTCCCGTCTGTGGAAACCTTGGTTGTACTTC
TGTTATCTGCTCAGACAAGACTGGTACACTTACAACAAACCAGATGTCAGTCTGCAGGATGTTTATTCTGGACAG
AGTGGAAGGTGATACTTGTTCCCTTAATGAGTTTACCATAACTGGATCAACTTATGCACCTATTGGAGAAGTGCA
TAAAGATGATAAACCAAGTGAATTGTCACCAAGTATGATGGTCTGGTAGAATTAGCAACAATTTGTGCTCTTTGTAA
TGACTCTGCTTTGGATTACAATGAGGCAAAGGGTGTGTATGAAAAGTTGGAGAAGCTACAGAGACTGCTCTCAC
TTGCCTAGTAGAGAAGATGAATGTATTGATACCGAATTGAAGGGTCTTTCTAAATAGAACGTGCAATGCCTG
CAACTCAGTCATTAAACAGCTGATGAAAAGGAATTCACCTCTAGAGTTTTACGTGACAGAAAGTCAATGTCGGT
TTACTGTACACCAATAAACCAAGCAGGACATCAATGAGCAAGATGTTTGTGAAGGGTGTCTCTGAAGGTGTCAT
TGACAGGTGCACCCACATTCGAGTTGGAAGTACTAAGGTTCTATGACCTCTGGAGTCAAAACAGAAAGTCAATGTC
TGTCATTTCGAGAGTGGGGTAGTGGCAGCGACACACTGCGATGCCTGGCCCTGGCCACTCATGACAACCCACTGAG
AAGAGAAGAAATGCACCTTGAGGACTCTGCCAACCTTTATTAATATGAGACCAATCTGACCTTCGTTGGCTGCGT
GGGCATGCTGGATCCTCCGAGAATCGAGGTGGCCTCCTCCGTGAAGCTGTGCCGGCAAGCAGGCATCCGGGTCT
CATGATCACTGGGGACAACAAGGGCACTGCTGTGGCCATCTGTGCGCGCATCGGCATCTTCGGGCAGGATGAGGA
CGTGACGTCAAAAGCTTTCACAGGCCGGGAGTTTGATGAACTCAACCCCTCCGCCCAGCGAGACGCTGCCTGAA
CGCCCGCTGTTTTGCTCGAGTTGAACCTCCACAAGTCTAAATCGTAGAATTTCTTCAGTCTTTTGATGAGAT
TACAGCTATGACTGGCGATGGCGTGAACGATGCTCCTGCTCTGAAGAAAGCCGAGATTGGCATTGCTATGGGCTC
TGGCACTGCGGTGGCTAAACCGCCTCTGAGATGGTCTGGCGGATGACAACCTCTCCACCATTGTGGCTGCCGT
TGAGGAGGGGCGGGCAATCTACAACAACATGAAACAGTTTATCCGCTACCTCATCTCGTCCAACGTGGGGAAGT
TGTCTGTATTTTCTGACAGCAGCCCTTGGATTTCCCGAGGCTTTGATTCTGTTCAGCTGCTCTGGGTCAATCT
GGTGACAGATGGCCTGCCTGCCACTGCACTGGGGTTCAACCTCCTGATCTGGACATCATGAATAAACCTCCCCG
GAACCCAAAGGAACCATGATCAGCGGTGGCTCTTTTCCGTTACTTGGCTATTGGCTGTTACGTGGCGCTGC
TACCGTGGGTGCTGCTGCATGGTGGTTTATTGCTGCTGACGGTGGTCCAAGAGTGTCTTCTACCAGCTGAGTCA
TTTCTTACAGTGTAAGAGGACAACCCGACTTTGAAGGCGTGGATTGTGCAATCTTTGAATCCCCATACCCGAT
GACAATGGCGCTCTCTGTTCTAGTAACATAGAAATGTGTAACGCCCTCAACAGCTTGTCGGAAAACAGTCCTT
GCTGAGGATGCCCCCTGGGAGAACATCTGGCTCGTGGGCTCCATCTGCCTGTCCATGTCACTCCACTTCTGAT
CCTCTATGTCGAACCTTGCCACTCATCTTCCAGATCACACCGCTGAACGTGACCCAGTGGCTGATGGTGTGAA
AATCTCCTTGCCCGTGATTCTCATGGATGAGACGCTCAAGTTTGTGGCCCGCAACTACCTGGAACCTGGTAAAGA
GTGTGTGCAGCCTGCCACCAATCCTGCTCGTTCTCGGCATGCACCGATGGGATTTCTGGCCGTTTGTGCTGCT
CATAATGCCCTGGTGATCTGGGTCTATAGCACAGACACTAACTTTAGCGATATGTTCTGGTCTTGACTGACAGT
TTCCATAAAGAAGATGTTTAACTTAATCAATTAATTTTTTTTATTGTTTAAAGCAACTGTCTATTTCTGCTGAAT
TTTACATGAACATACTGGCTGGTGTGAGGTTTCACTCTAGATTTTGTGTTTCTGACTCCAGTGG
GGCAAGATTTTCTTTTTTATACATAATTAAGTGTCCATTGACATGTACAGAGAACTAACACTATTTTATGC
AAATATTTTTTTGTAGATGAAAAGCATGTACAGTGTCTGTTTAACTCATCTTGTATAAAAAAATAGTTG

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FIGURE 788B

AGCCAGCAGACATTGTCAGCAAATTAATTGGCAGCAGATTTAGGAAATGAATGTGTGTGGTTTTTTTTCTAAAA
CTAAATAGCATGTATTGTGTCTTTTGCATGATGATCCGGATTTAATTTGATATCACAGTCTAATTTTTATTCTATA
AGCCAATTTTTCTGCACTGAGCAGAGTCTTGCTACCTCAGTCAGTATTGTTTTGGTTTGCTACTTCCCTCACCCA
CTTTGGCCTCCGTTACCCCCACCCACCCACCTCTCCCCACCTTACCCCGCCCCGCTTGGCTTCTTCTTTAGG
ATTGTGATGGTTCGTTCTGTTTACATCAGTTTAAACGAGAGGTATGCCTGTACTCGCTTGTGCAGAAAACATTGT
TCCAGATTCAATCGACTGGGTTTATGTCCCTTCACATAGTTTTTAAGGTTATTTATTTAAATGTCTAATGTATTT
TATTGTAACAGACATTGTTTTGCCAACATTGCCTATTTAGTGGCACGTCATCTAGTTTTAAAAAATAAAACAT
TTTAAAAAG

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FIGURE 789

MENAHTKTVEEVLGHFGVNESTGLSLEQVKKLKERWGSNELPAEEGKTLLLELVIEQFEDLLVRILLLLAACISFVL
AWFEEGEETITAFVEPFVILLILVANAIVGVWQERNAENAIEALKEYEPEMGKVYRQDRKSVQRIKAKDIVPGDI
VEIAVGDKVPADIRLTSIKSTTLRVDQSILTGESVSVIKHTDPVPDPRAVNQDKKNMLFSGTNIAAGKAMGVVVA
TGVNTEIGKIRDEMVAEQERTPLQQKLDEFGEQLSKVISLICIAVWIINIGHFNDPVHGGSWIRGAIYYFKIAV
ALAVAAIPEGLPAVITTCALGTRRMAKKNAIVRSLPSVETLGCTSVICSDKTGTLTTNQMSVCRMFIILDRVEGD
TCSLNEFTITGSTYAPIGEVHKDDKPVNCHQYDGLVELATICALCNDSDALDYNEAKGVYEKVGEATETALTCLVE
KMNVDTELKGLSKIERANACNSVIKQLMKKEFTLEFSRDRKSMSVYCTPNKPSRTSMSKMFVKGAPEGVIDRCT
HIRVGSTKVPMTSGVKQKIMSVIREWGS GSDTLRCLALATHDNPLRREEMHLED SANFIKYETNLT FVGCVGMLD
PPRIEVASSVKLCRQAGIRVIMITGDNKGTAVAICRRIGIFGQDEDVTSKFTGREFDELNPSAQRDACLNARCF
ARVEPSHKS KIVEFLQSFDEITAMTGDGVNDAPALKKAEIGIAMGSGTAVAKTASEMVLADDNFSTIVA AVEEGR
AIYNNMKQFIRYLIS SNVGEVVCIFLTAALGFPEALIPVQLLWVNLVTDGLPATALGFNPPDL DIMNKPPRNPKE
PLISGWLFFRYLAIGCYVGAATVGAAAWFIAADGGPRVSFYQLSHFLQCKEDNPD FEGVDCAIFESPYPMTMAL
SVLVTIEMCNALNSLSENQSLLRMPWENIWLVGSI CLSMLHFLILYVEPLPLIFQITPLNVTQWLMVLKISLP
VILMDETLKFVARNYLEPGKECVQPATKSCSFSACTDGISWPFVLLIMPLVIWVYSTDTNFS DMFWS

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FIGURE 790

GGCACGAGGGCTGAGAAGAGTTTTGCACGTGGATCGCCGTTTCGGGTGGGCGAGATCGAGACAGCCCCCAAGCCGG
GCAAGGATGTCCCGCCCAAGAAAGACAACTTCAGACCAAGAGAAAGAAACCGCGGCGATACTGGGAGGAAGAGA
CCGTTCCGACCACAGCCGGAGCCTCTCCAGGGCCTCCTCGTAACAAGAAGAATCGGGAGCTCCGTCCTCAGAGAC
CAAAAAATGCTTACATCTTAAAGAAGTCTCGGATCTCTAAGAAGCCTCAGGTCCCGAAGAAACCCCGAGAATGGA
AGAACCCGGAGTCCCAGCGCGGCTTGTCCGGGGCCCAAGATCCATTCCCAGGCCCGCCCCGTCCTGTGGAAG
TGGTCCAGAAGTTCTGTGCGATTGACAAATCCCCGAAAGCTACCACATTCTAAAGCCAAACTCGAAGCCGACTTG
AGGTGGCTGAAGCTGAGGAAGAGGAAACAAGTATCAAAGCTGCTCGTTCTGAGCTGCTGCTTGCTGAAGAACCTG
GGTTTCTGGAAGGGGAGGATGGGGAAGACACAGCAAAGATATGCCAGGCTGACATTGTGGAGGCTGTGGACATTG
CAAGTGCAGCCAAGCACTTTGACTTGAATCTGCGGCAGTTTGGACCCTACAGACTAAACTACTCTCGAACTGGAA
GACACCTGGCTTTTGGAGGGCGCCGAGGTCATGTGGCTGCCCTTGATTGGGTAACAAAGAAGCTTATGTGCGAGA
TCAACGTCATGGAGGCGGTGCGGGACATCCGGTTTCTCCATTCTGAGGCACTGCTTGCTGTGCTCAGAACCCTG
GGCTCCACATCTATGACAATCAGGGCATTGAGCTCCACTGTATCCGCCGCTGTGACCGAGTAACACGGCTTGAGT
TCCTGCCCTTCCACTTCCCTCCTGGCTACAGCTTCAGAAACAGGGTTTCTAACCTACCTGGATGTGTGTCAGTGGGA
AGATTGTGGCAGCTCTGAATGCTCGAGCTGGGCGGCTCGATGTTATGAGTCAGAACCTTACAATGCCGTCATCC
ATCTCGGACACAGCAATGGTACTGTGTCTTTATGGAGTCCAGCTATGAAGGAGCCACTGGCAAAGATTCTCTGTC
ATCGTGGTGGGGTCCGGGCTGTGGCAGTAGATTCTACAGGCACGTACATGGCCACCTCTGGCCTAGACCACCAGC
TGAAGATCTTTGACTTGCGAGGGACGTACCAGCCTCTGAGCACTCGGACCCTGCCCCATGGAGCAGGGCACCTGG
CCTTCTCCCAGAGGGGACTGCTGGTGGCGGGAATGGGTGACGTTGTCAACATCTGGGCAGGGCAGGGCAAGGCCA
GCCCCACCTCCCTTGAACAGCCCTACCTCACCCACCGGCTCTCAGGCCCTGTGCATGGCCTTCAGTTCTGCCCT
TTGAAGATGTGCTGGGGGTGGGGCACACTGGGGGCATCACCAGCATGCTGGTCCCTGGGGCCGGTGAGCCCACT
TCGATGGCCTGGAGAGTAATCCATACAGAAGCCGGAAGCAGCGCCAGGAGTGGGAGGTGAAGGCCCTGCTAGAGA
AGGTACCTGCAGAGCTTATTTGTCTGGACCCACGAGCCCTGGCCGAGGTGGATGTCATCTCCCTGGAGCAGGGAA
AGAAGGAGCAGATAGAGAGGCTGGGCTATGACCCGCAGGCTAAGGCTCCCTTCCAGCCAAAGCCAAAGCAGAAGG
GCCGCAGCTCCACGGCAAGCCTGGTGAAGAGGAAGAGGAAGGTGATGGATGAGGAACACAGGGACAAGGTCCGGC
AGAGCCTTCAGCAGCAGCATCATAAGGAGGCGAAGGCCAAGCCCACGGGGGCCCGCCATCTGCCCTGGACAGAT
TTGTGCGCTGAGCCAGACTCCAGGGTTGCCTGGGAACAGTCTCTCCCCAAGATCACCTGTAGGGAAATGAGTGT
CCCTGGAACAAGGAGGTGGGGGCAGTGTGGCCCTTCCCCAACTGGGGGTGGACAGCTGTCTCCTGGGGTGGGT
GGTATTAAAGAGGAAAGCGATTTTTTGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 791

METAPKPGKDVPPKKDKLQTKRKKPRRYWEEETVPTTAGASPGPPRNKKNRELRPQRPKNAYILKKSRI SKKPQV
PKKPREWKNPESQRGLSGAQDPFPGPAPVPVEVVQKFCRIDKSRKLP HSKAKTRSRLEVAEAE EEEETS IKAARSE
LLLAEEP GFLEGEDGTAKICQADIVEAVD IASAAKHFDLNL RQFGPYRLNYSRTGRHLAFGGRRGHVAALDWV
TKKLMCEINVMEAVRDIRFLHSEALLAVAQNRWLHIYDNQGIELHCIRRCDRVTRLEFLPFHFL LATASETGFLT
YLDVSVGKIVAALNARAGRLDVMSQNPYNAV IHLGHSNGTVSLWSPAMKEPLAKILCHRGVRAVAVDSTGT YMA
TSGLDHQLKIFDLRGTYQPLSTRTLPHGAGHLAF SQRGLLVAGMGDVVNIWAGQGKASPPSLEQPYLTHRLSGPV
HGLQFCPFEDVLGVGHTGGITSM LVPGAGEPNFDGLESNPYRSRKQRQEW EVKALLEKVP AE LICLDPRALAEVD
VISLEQGKKEQIERLGYDPQAKAPFQPKPKQKGRSSTASLVKRKRKVMDEEHRDKVRQSLQQQHHKEAKAKPTGA
RPSALDRFVR

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FIGURE 792

CAGCTAGCTTTGCAATATGGCGGCCGAGGCGGACGGACCGCTTAAACGGCTGCTCGTGCCGATTCTTTTACCTGA
GAAATGCTACGACCAACTTTTCGTTCAGTGGGACTTGCTTCACGTCCCCTGCCTCAAGATTCTCCTCAGCAAAGG
CCTGGGGCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAAAAATCCGGGGAGCCAAGAG
TGCTGAAGGGTTGAGTCTCCAGTCTGTAAATGCTGGAGCTAGTGGCATTGACTGGGACCATGGTCTACAGCATCAC
CACTTCCCATTCAGCTCTTGGGGTGAAGCCTTATTCTGATGCTCCAGACGATCACCATCTGCTTCCTGGT
GCACTACAGAGGACAGACTGTGAAAGGTGTCGCTTTCTCGCTTGCTACGGCCTGGTCTGCTGGTGGTCTCT
CACCTCTGACGCCCTTGACTGTAGTCACCCTGCTCCAGGCCTCCAATGTGCCTGCTGTGGTGGTGGGGAGGCT
CTCCAGGCAGCCACCAACTACCACAACGGGTACACAGGCCAGCTCTCAGCCATCACAGTCTTCCTGCTGTTTGG
GGCTCCCTGGCCCGAATCTTCACTTCCATTAGGAAACCGGAGATCCCCTGATGGCTGGGACCTTTGTGGTCTC
CTCTGCAACGGCCTCATCGCCGCCAGCTGCTCTTCTACTGGAATGCAAAGCCTCCCCACAAGCAGAAAAA
GAGCTGCTGGTGTGACTTACTCATCCTCCATTCTCTGCACTTGCAGACTTCTGAGCCAGGGTTTTCTTTTA
GGAAACAAATGGTTGATGGATCCAGATCCTTAGAAAAGGAGAGGATGGGGGTAGAGTCTCCAAGCCAAAATT
GACATTTGAGTGCTTTCGTAAGCCCTGTACATGTACTATTAATTCAGTCATTAGCCAAGCCTCCTCCTCTAG
TAGCAATTTCCAGCTGTTTAACACTATCCTGGGCAAATGTTTTACCCTGTCTCCAGCCTCCCTGCTTCCCTTCT
GGCCTGGAAGACTGAGTCTGGACGGCAGAGTGGAGGGACTGGGAGGCTGTGGCTGCCCTCCCTCCCTCAGCCCGG
CTGGGACTGTCTCCCGGACCCAGTGCTGGGGTGGGGGAAGGGGGACGGAGAATGACTCAGGCAGGGCCCCAGGG
TGGGGTGAGGAGGTTCTGCTCTGGCAGGTCTAGGCGGAAGGGAGTGGAGATGGGGCTGGTTGCTGCTGCAGTGA
GGGGAACAGATGGGACAATAAAGACTGGAGACTCAGTTGAATAATGCAAAAAAAAAAAAAA

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FIGURE 793

MAEADGPLKRLLPILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKIRGAESAEGLS
LQSVMLELVALTGTMVYSITNNFPFSSWGEALFLMLQTITICFLVMHYRGQTVKGVAFLACYGLVLLVLLSPLTP
LTVVTLLQASNVPVAVVGRLLQAATNYHNGYTGQLSAITVFLFGGSLARIFTSIQETGDPLMAGTFVVSSLCNG
LIAAQLLFYWNAKPPHKQKKAQ

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FIGURE 794

GGTACGTGCGCTCGCGGTTCTCTCGCGGAGGTGCGCGGTGGCGGGAGCGGGCTCCGGAGAGCCTGAGAGCACGGT
GGGGCGGGGCGGGAGAAAGTGGCCGCCCCGAGGACGTTGGCGTTTACGTGTGGAAGAGCGGAAGAGTTTTGCTTT
TCGTGCGCGCCTTCGAAAACCTGCCTGCCGCTGTCTGAGGAGTCCACCCGAAACCTCCCCCTCTCCGCCCGCAGCC
CCGCGCTGAGCTCGCCGACCCAAGCCAGCGTGGGCGAGGTGGGAAGTGCGCCCGACCCGCGCCTGGAGCTGCGCC
CCCCAGTGCCCCATGGCTACAAGGGTGTGAGCATGAGCGCCCGCCTGGGACCCGTGCCCCAGCCGCCGGCGCCGC
AGGACGAGCCGGTGTTCGCGCAGCTCAAGCCGGTGCTGGGCGCCGCGAATCCGGCCCGCGACGCGGCGCTCTTCC
CCGGCGAGGAGCTGAAGCACGCGCACCCACCGCCCGCAGGCGCAGCCGCGCCCGCGCAGGCCCCGAGCCGGCCC
AGCCGCCCGCCACCGGCCCGGGCTGCCTCCAGAGGACCTGGTCCAGACAAGATGTGAAATGGAGAAGTATCTGA
CACCTCAGCTTCTCCAGTTCTTATAATTCCAGAGCATAAAAAGTATAGACGAGACAGTGCCTCAGTCGTAGACC
AGTTCTTCTACTGACACTGAAGGGTTACCTTACAGTATCAACATGAACGTCTTCTCCCTGACATCACTCACCTGA
GAACTGGCCTCTACAAATCCCAGAGACCGTGCGTAACACACATCAAGACAGAACCTGTTGCCATTTTCAGCCACC
AGAGTGAAACGACTGCCCCCTCCTCCGGCCCCGACCCAGGCCCTCCCTGAGTTCACCAAGTATATTTCAGCTCACACC
AGACCGCAGCTCCAGAGGTGAACAATATTTTCATCAAAACAAGAACTTCCTACACCAGATCTTCATCTTTCTGTCC
CTACCCAGCAGGGCCACCTGTACCAGCTACTGAATACACCGGATCTAGATATGCCCAGTTCTACAAATCAGACAG
CAGCAATGGACACTCTTAATGTTTCTATGTGAGCTGCCATGGCAGGCCTTAACACACACACCTCTGCTGTTCCGC
AGACTGCAGTGAAACAATTCCAGGGCATGCCCCCTTGCACATACACAATGCCAAGTCAGTTTCTTCCACAACAGG
CCACTTACTTTCCCCCGTCACCACCAAGCTCAGAGCCTGGAAGTCCAGATAGACAAGCAGAGATGCTCCAGAATT
TAACCCACCTCCATCCTATGCTGCTACAATTGCTTCTAAACTGGCAATTCACAATCCAAATTTACCCACCACCC
TGCCAGTTAACTCACAAAACATCCAACCTGTCAGATACAATAGAAGGAGTAACCCCGATTTGGAGAAACGACGCA
TCCACTACTGCGATTACCCTGGTTGCACAAAAGTTTATACCAAGTCTTCTCATTTAAAAGCTCACCTGAGGACTC
ACACTGGTGAAAAGCCATACAAGTGTAACCTGGGAAGGCTGCGACTGGAGGTTTCGCGCGATCGGATGAGCTGACCC
GCCACTACCGGAAGCACACAGGCGCCAAGCCCTTCCAGTGCGGGGTGTGCAACCGCAGCTTCTCGCGCTCTGACC
ACCTGGCCCTGCAATATGAAGAGGCACCAGAACTGAGCACTGCCCGTGTGACCCGTTCCAGGTCCCCCTGGGCTCCC
TCAATGACAGACCTAACTATTCTGTGTAAAAACAACAAAAACAAAAAACAAGAAAACCAACTAAAAAC
TGGAATGTATATTTTGTATATTTGAGAAAACAGGGAATACATTGTATTAATACCAAGTGTTTGGTCATTTTAA
GAATCTGGAATGCTTGCTGTATGTATATGGCTTTACTCAAGCAGATCTCATCTCATCTCATGACAGGCAGCCAG
TCTCAACATGGGTAAGGGGTGGGGGTGAAGGGGAGTGTGTGACGCGTTTTTACCTAGGCACCATCATTTAATGTG
ACAGTGTTTCAGTAAACAAATCAGTTGGCAGGCACCAGAAGAAGTGGATTGTATGTCAAGATTTTACTTGGCAT
TGAGTAGTTTTTTTCAATAGTAGGTAATTCCTTAGAGATACAGTATACCTGGCAATTCACAAATAGCCATTGAAC
AAATGTGTGGGTTTTTAAAAATTATATACATATATGAGTTGCCTATATTTGCTATTCAAATTTTGTAATATGC
AAATCAGCTTTATAGGTTTATTACAAGTTTTTTAGGATTCTTTTGGGAAGAGTCATAATTCTTTTGAAAATAAC
CATGAATACACTTACAGTTAGGATTTGTGGTAAGGTACCTCTCAACATTACCAAAATCATTCTTTAGAGGGAAG
GAATAATCATTCAAATGAACTTTAAAAAAGCAAATTTTCATGCACTGATTAAAATAGGATTATTTAAATACAAAA
GGCATTTTATATGAATTATAAACTGAAGAGCTTAAAGATAGTTACAAAATACAAAAGTTCAACCTCTTACAATAA
GCTAAACGCAATGTCATTTTAAAAAGAAGGACTTAGGGGTGCTTTTACATATGACAATGTTGCATTTATGATG
CAGTTTTCAAGTACCAAAACGTTGAATTGATGATGCAGTTTTTCATATATCGAGATGTTGCTCGTGCAGTACTGT
TGGTTAAATGACAATTTATGTGGATTTTGCATGTAATACACAGTGAGACACAGTAATTTTATCTAAATTACAGTG
CAGTTTAGTTAATCTATTAATACTGACTCAGTGTCTGCCTTTAAATATAAATGATATGTTGAAAACCTTAAGGAAG
CAAATGCTACATATATGCAATATAAAATAGTAATGTGATGCTGATGCTGTTAACCAGGGCAGAATAAATAAGC
AAAATGCCAAAAGGGGTCTTAATTGAAATGAAAATTTAATTTTGTTTTTTAAATATTGTTTATCTTTATTTATTT
TGTGGTAATATAGTAAGTTTTTTTAGAAGACAATTTTCATAACTTGATAAATTATAGTTTTGTTTGTAGAAAAG
TTGCTCTTAAAAGATGTAAATAGATGACAAACGATGTAAATAATTTTGTAAAGAGGCTTCAAAATGTTTATACGTG
GAAACACACCTACATGAAAAGCAGAAATCGGTTGCTGTTTTGCTTCTTTTTCCCTCTTATTTTTGTATTGTGGTC
ATTTCTATGCAATAATGGAGCAAACAGCTGTATAGTTGTAGAATTTTTTGAGAGAATGAGATGTTTATATATT
AACGACAATTTTTTTTTTTTGAAAATAAAAAGTGCCTAAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 795

MATRVLMSARLGVPVQPPAPQDEPVFAQLKPVLGAANPARDAALFPGEELKHAHHRPQAQPAPAQAPQPAQPPA
TGPRLPPEDLVQTRCEMEKYLTPLPPVPIIPEHKKYRRDSASVVDQFFTDTEGLPYSINMNVFLPDITHLRTGL
YKSQRPCVTHIKTEPVAFSHQSETTAPPPAPTQALPEFTSIFSSHQTAAPENVNIFIKQELPTPDLHLSVPTQQ
GHLYQLLNTPLDMPSSNTAAMDITLVSMSAAMAGLNTHTSAVPQTAVKQFQGMPPCTYTMP SQFLPQQATYF
PPSPPSSEPGSPDRQAEMLQNLTPPPSYAATIASKLAIHNPNLPTTLPVNSQNIQPVRYNRRSNPDLEKRRIHYC
DYPGCTKVYTKSSHLKAHLRTHTGKPYKCTWEGCDWRFARSDELTRHYRKHTGAKPFQCGVCNRSFSRSDHLAL
HMKRHQN

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FIGURE 796

CGTTTTCCGCTCCTCGCTACGTCATCGTTGTGAGCCCGCTATCAGCGGCCAGCGCGGGCGCGGCCGGAGACCGTG
GGGCCCCCGGTTGCCGCCCCCTCGGGAGCCACC**ATG**TTGGTGATACCCCCGGACTGAGCGAGGAAGAGGAGGCT
CTGCAGAAGAAATTCAACAAGCTCAAGAAAAAGAAAAAGGCATTGCTGGCTCTGAAGAAGCAAAGTAGCAGCAGC
ACAACCAGCCAAGGTGGTGTCAAACGCTCACTATCAGAGCAGCCTGTCTATGGACACAGCCACAGCAACAGAGCAG
GCAAAGCAGCTGGTGAAGTCAGGAGCCATCAGTGCCATCAAGGCTGAGACCAAGAAGTCAAGGCTTCAAGCGTTCT
CGAACCCTTGAGGGGAAGTTAAAGGACCCGAGAAGGGACCAGTCCCCACTTTCCAGCCGTTCCAGAGGAGCATA
TCTGCTGATGATGACCTGCAAGAGTCATCCAGACGTCCCCAGAGGAAATCTCTGTATGAGAGCTTTGTGTCTTCT
AGTGATCGACTTCGAGAAGTAGGACCAGATGGAGAAGAGGCAGAGGGGCCAGGGGCTGGTGATGGTCCCCCTCGA
AGCTTTGACTGGGGCTATGAAGAACGCAGTGGTGCCCACTCCTCAGCCTCCCCTCCCCGAAGCCGCAGCCGGGAC
CGCAGCCATGAGAGGAACCGGGACAGAGACCGAGATCGGGAGCGGGATCGAGACCGGGATCGAGACAGAGACAGA
GAGCGGGACAGGGATCGGGATCGGGATCGAGATCGAGACCGGGAACGGGACAGGGATCGGGAGCGGGATCGAGAC
CGAGACCGAGAGGGTCCTTTCCGCAGGTCGGATTCAATCCCTGAACGGCGAGCCCCTAGGAAAGGGAATACTCTC
TATGTATATGGAGAAGACATGACACCCACCCTTCTCCGTGGGGCCTTCTCTCCTTTTGAAACATCATTGACCTC
TCCATGGACCCACCCAGAACTGTGCCTTCGTACCTATGAAAAGATGGAGTCAGCAGATCAGGCCGTTGCTGAG
CTCAACGGGACCCAGGTGGAGTCTGTACAGCTCAAAGTCAACATAGCCCGAAAACAGCCCATGCTGGATGCCGCT
ACTGGCAAGTCTGTCTGGGGCTCCCTCGCTGTCCAGAACAGCCCTAAGGGTTGCCACCGGGACAAGAGGACCCAG
ATTGTCTACAGTGATGACGTCTACAAGGAAAACCTTGTGGATGGCTTCT**TAG**GGAACAGAGCTGGATTCCCTTGTC
CTCATATGCCCCAATGCTGGTCTCAGTAAAAACTGAGGTGGAAGCTTACACATCTCCCTCAGCCTCTGGTTTTT
CAGCACTTGGGATTGGGGTTAAGCCTTTAAAAACGGCTGTGAGGTTTGATCTCAGTGTAACGACATGGCCAGTGC
CTGTTCCCCACTCCCTTGCCCCAAAAGGATCTGGAACAC

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FIGURE 797

MLVI PPGLSEEEALQKKFNKLKKKKKALLALKKQSSSSTTSQGGVKRSLSEQPVMDTATATEQAKQLVKSGAIS
AIKAETKNSGFKRSRTLEGKLDPEKGPVPTFQPFQRSISADDDLQESSRRPQRKSLYESFVSSDRLRELGPDG
EEAEGPGAGDGPPRSFDWGYEERSGAHSSASPPRSRSRDRSHERNRDRDRDRERDRDRDRDRDRERDRDRDRDRD
RDRERDRDRERDRDRDREGPFRRSDSFPERRAPRKNTLYVYGEDMTPTLLRGAFSPFGNIIDLSMDPPRNCAFV
TYEKMESADQAVAE LNGTQVESVQLKVNIARKQPM L DAATGKSVWGS LAVQNSPKGCHRDKRTQIVYSDDVYKEN
LVDGF

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FIGURE 798

GTGATGCAGTGCGCCGGAGAACTGTGCTCTTTGAGGCCGACGCTAGGGGGCCCGGAAGGAACTGCGAGGCGAAGG
TGACCGGGGACCGAGCATTTCAGATCTGCTCGGTAGACCTGGTGCACCACCACCATGTTGGCTGCAAGGCTGGTG
TGCTCCGGACACTACCTTCTAGGGTTTTCCACCCAGCTTTACCAAGGCCTCCCCTGTTGTGAAGAATTCCATC
ACGAAGAATCAATGGCTGTTAACACCTAGCAGGGAATATGCCACCAAAACAAGAATTGGGATCCGGCGTGGGAGA
GGCCAAGAACTCAAAGAGGCAGCATTGGAACCATCGATGGAAAAAATATTTAAATTGATCAGATGGGAAGA
TTGTGTTGCTGGAGGGGCTGCTGTTGGTCTTGGAGCATTGTGCTACTATGGCTTGGGACTGTCTAATGAGATT
AGCTATTGAAAAGGCTGTAATTTGGCCTCAGTATGTCAAGGATAGAATTCATTCCACCTATATGTACTTAGCA
GGAGTATTGGTTTAAACAGCTTTGTCTGCCATAGCAATCAGCAGAACGCCTGTTCTCATGAACCTTCATGATGAGA
CTCTTGGGTGACAATTGGTGTGACCTTTGCAGCCATGGTTGGAGCTGGAATGCTGGTACGATCAATACCATAT
CAGAGCCCAGGCCCAAAGCATCTTGCTTGGTGTGCTACATTCTGGTGTGATGGGTGCAGTGGTGGCTCCTCTG
ATATTAGGGGGTCTCTTCTCATCAGAGCTGCATGGTACACAGCTGGCATTGTGGGAGGCCTCTCCACTGTG
ATGTGTGCGCCCAAGTGAAGTTTCTGAACATGGGTGCACCCCTGGGAGTGGGCCTGGGTCTCGTCTTTGTG
CTCATTGGGATCTATGTTTCTTCCACCTACCACCGTGGCTGGTGGCACTCTTTACTCAGTGGCAATGTACGGT
AATTAGTTCTTTTTCAGCATGTTCTTCTGTATGATACCCAGAAAGTATCAAGCGTGCAGAAGTATACCAATGT
ATGGAGTTCAAAAATATGATCCCATTAACTCGATGCTGAGTATCTACATGGATACATTAAATATATTTATGCGAG
TTGCAACTATGCTGGCAACTGGAGGCAACAGAAAGAAATGAAGTGACTCAGCTTCTGGCTTCTCTGCTACATCAA
ATATCTTGTTTAAATGGGGCAGATATGCATTAAATAGTTTGTACAAGCAGCTTTCGTTGAAGTTTAGAAGATAAGA
AACATGTCATCATATTTAAATGTTCCGGTAATGTGATGCCCTCAGGCTCGCCTTTTTTCTGGAGAATAAATGCAG
TAATCCTCTCCCAAATAAGCACACACATTTTCAATTCTCATGTTTGAGTGATTTTAAATGTTTTGGTGAATGTG
AAAATAAGTTTGTGTGATGAGAATGTAAGTCTTTTTTCTACTTTAAATTTAGTAGGTTCACTGAGTAACTAA
AATTTAGCAAACCTGTGTTTGCATATTTTTTGGAGTGCAGAATATTGTAATTAATGTCATAAGTGATTTGGAGC
TTTGGTAAAGGGACCAGAGAGAAGGAGTCACCTGCAGTCTTTTGTTTTTTAAATACTTAGAACTTAGCACTTGT
GTTATTGATTAGTGAGGAGCCAGTAAGAAACATCTGGGTATTTGGAAACAAGTGGTCATTGTTACATTCATCTGC
TGAACCTTAACAAAACCTGTTTCATCCTGAAACAGGCACAGGTGATGCATTCTCCTGCTGTTGCTTCTCAGTGCTCTC
TTTCCAATATAGATGTGGTCATGTTTGACTTGTACAGAATGTTAATCATACAGAGAATCCTTGATGGAATTATAT
ATGTGTGTTTTACTTTTTGAATGTTACAAAAGGAAATAACTTTAAACTATTCTCAAGAGAAAATATTCAAAGCAT
GAAATATGTTGCTTTTTCCAGAATACAAACAGTATACTCATGAATTGCTAAGTGTTTTTTTATTTTTGCATATTT
ATTGAACGTCTAATTGAATACAGCTTGCTCTTGTACCTCTTCAAGCTTTCAAGCCTTTATAGAAAAGCTTCTT
TGTGGCTTACACTGGAAATTATGAAAGCAGTTTTTCTCCTAAGACTTTTGGTTTTCTCGCATTGCCTCTCAGACTA
AGCACTAAAAAGCAAAGCAAACAGAACTAGTTCTGTCTTAATGAAATATATCAACCCAAAAGTGTAATGAGGAA
AATGCTTCATTAGTTTCCCCTAGCAGACTTTTACTTCTCTTACACTGCTACACCATTACTTTCTTGAGACATTTG
TAAGTCCTTTGATACAGAAGAGTTATATTTAGGAGGCTTTAATGAAGGG

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FIGURE 799

MLAARLVCLRTLPSRVFHPAFTKASPVVKNSITKNQWLLTPSREYATKTRIGIRRGRTGQELKEAALEPSMEKIF
KIDQMGRWFFVAGGAAGLGLALCYGLGLSNEIGAIEKAVIWPQYVKDRIHSTYMYLAGSIGLTALSAIAISRTPV
LMNFMMRGSWVTIGVTFAAMVGAGMLVRSIPYDQSPGPKHLAWLLHSGVMGAVVAPLTIILGGPLLIRAAWYTAGI
VGGLSTVAMCAPSEKFLNMGAPLGVGLGLVFVSSLGSMFLPPTTVAGATLYSVAMYGGLVLFSMFLLYDTQKVSS
VQKYHQCMEFKNMIPLTRC

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FIGURE 800

ATGCGTGAGTGCATCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGCCTGCTGGGAGCTCTACTGC
CTGGAACACGGCATCCAGCCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGATTCCCTTCAAC
ACCTTCTTCAGTAAAACGGGTGCTGGCAAGCATGTGCCCCGGGCAGTGTTGTAGACTTGGAACCCACAGTCATT
GATGAAGTTTCGCACTGGCACTTACCGCCAGCTCTTCCACCCTGAGCAACTCATCACAGGCAAGGAAGATGCTGCC
AATAACTATGCCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTCGTGTGGACCGAATTCGCAAGCTG
GCTGACCAGTGACCGGTCTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAAGTGGTTCTGGGTTTACC
TCGCTGCTCATGGAACGTCTCTCAGTTGATTATGGCAAGAAAGTCCAAGCTGGAGTTCTCCATTTACCGGGCGCCC
CAGGTTTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCCTGGAGCACTCTGATTGT
GCCTTCATGGTAGACAATGAGGCCATCTATGACATCTGTCTGATAGAAACCTCGATATCGAGCGCCCAACCTACACT
AACCTTAACCGCCTTATTAGCCAGATTGTGTCTCCATCACTGCTTCCCTGAGATTTGATGGAGCCCTGAATGTT
GACCTGACAGAATTCCAGACCAACCTGGTGCCCTACCCCCGCATCCACTTCCCTCTGGCCACATATGCCCCCTGTC
ATCTCTGCTGAGAAAGCCTACCATGAACAGCTTACTGTAGCAGAGATCACCAATGCTTGCTTTGAGCCAGCCAAC
CAGATGGTGAATGTGACCCTCGCCATGGTAAATACATGGCTTGCTGCCTGTTATACCGTGGTGACGTGGTTCCC
AAAGATGTCAATGCTGCCATTGCCACCATCAAAACCAAGCGTACCATCCAGTTTGTGGATTGGTGCCCCACTGGC
TTCAAGGTTGGCATTAAATTACCAGCCTCCCACTGTGGTGCCTGGCGGAGACCTGGCCAAGGTACAGAGAGCTGTG
TGCATGCTGAGCAATACCACAGCTGTTGCCGAGGCCTGGGCTCGCCTGGACCACAAGTTTACCTGATGTATGCC
AAGCGTGCCTTTGTTCAGTGGTACGTGGGTGAGGGGATGGAGGAAGGCGAGTTTTTCAGAGGCCCGTGAGGACATG
GCTGCCCTTGAGAAGGATTATGAGGAGGTTGGAGCAGATAGTGCTGACGGAGAGGATGAGGGTGAAGAGTAT**TAA**

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FIGURE 801

MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDLEPTVI
DEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLADQCTGLQGFLVFHSFGGGTGSGFT
SLLMERLSVDYGGKSKLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAIYDICRRNLDIERPTYT
NLNRLISQIVSSITASLRFDGALNVDLTEFQTNLVPYPRIHFPLATYAPVISAEKAYHEQLTVAEITNACFEPAN
QMVKCDPRHGKYMACCLLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTGFKVGINYQPPTVVPGGDLAKVQRAV
CMLSNTTAVAEAWARLDHKFDLMYAKRAFVHWYVGEGMEEGEFSEAREDMAALEKDYEYVVGADSDADGEDEGEY

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FIGURE 802

GGGGCTACCGCGCCTTTGCTTCCTGGCGCACGCGGAGCCTCCTGGAGCCTGCCACCATCCTGCCTACTACGTGCT
GCCCTGCGCCCGCAGCCATGTGCGCGCACCTGGCCGCCTTCCCCACCACCTGCCTGGAGAGAGCCAAAGAGTTCA
AGACACGTCTGGGGATCTTTCTTCACAAATCAGAGCTGGGCTGCGATACTGGGAGTACTGGCAAGTCCGAGTGGG
GCAGTAAACACAGCAAAGAGAATAGAACTTCTCAGAAGATGTGCTGGGGTGGAGAGAGTCGTTTCGACCTGCTGC
TGAGCAGTAAAAATGGAGTGGCTGCCTTCCACGCTTTCTGAAAGACAGAGTTCAGTGAGGAGAACCTGGAGTTCT
GGCTGGCCTGTGAGGAGTTCAAGAAGATCCGATCAGCTACCAAGCTGGCCTCCAGGGCACACCAGATCTTTGAGG
AGTTCAATTTGCAGTGAGGCCCTAAAGAGGTCAACATTGACCATGAGACCCGCGAGCTGACGAGGATGAACCTGC
AGACTGCCACAGCCACATGCTTTGATGCGGCTCAGGGGAAGACACGTACCCTGATGGAGAAGGACTCCTACCCAC
GCTTCCTGAAGTCGCCTGCTTACCGGGACCTGGCTGCCAAGCCTCAGCCGCCTCTGCCACTCTGTCCAGCTGCA
GCCTGGACGAGCCCTCACACACCTTGAGTCTCCACGGCAGTGAGGAAGCCAGCCGGGAAGAGAGGTTGAGTCACCC
ATCCCCGAGGTGGCTGCCCTGTGTGGGAGGCAGGTTCTGCAAAGCAAGTGCAAGAGGACAAAAA
AAAAAAAAAATGCGCTCCAGCAGCCTGTTTGGGAAGCAGCAGTCTCTCCTTCAGATACTGTGGGACTCATGCTG
GAGAGGAGCCGCCACTTCCAGGACCTGTGAATAAGGGCTAATGATGAGGGTTGGTGGGGCTCTCTGTGGGGCAA
AAAGGTGGTATGGGGGTTAGCACTGGCTCTCGTTCTCACC GGAGAAGGAAGTGTCTAGTGTGGTTTAGGAAACA
TGTGGATAAAGGGAACCATGAAAATGAGAGGAGGAAAGACATCCAGATCAGCTGTTTTGCCTGTGTGCTCAGTTGA
CTCTGATTGCATCCTGTTTTCTTAATTCCCAGACTGTTCTGGGCACGGAAGGGACCTGGATGTGGAGTCTTCCC
CTTTGGCCCTCCTCACTGGCCTCTGGGCTAGCCCAGAGTCCCTTAGCTTGTACCTCGTAACACTCCTGTGTGTCT
GTCCAGCCTTGAGTCATGTCAAGGCCAGCAAGCTGATGTGACTCTTGCCCCATGCGAGATATTTATACCTCAA
CACTGGCCTGTGAGCCCTTTCCAAGTCAGTGGAGAGCCCTGAAAGGAGGCTCACTTGAATCCAGCTCAGTGTCT
GGGTGGCCCCCTGCAGGTGGCCCCTGACCCTGCGTTGCAGCAGGGTCCACCTGTGAGCAGGCCCGCCCTGGGGCC
TCTTCCTGGATGTGCCCTCTCTGAGTTCTGTGCTGTCTCTTGGAGGCAGGGCCCAGGAGAACAAAGTGTGGAGGC
CTCGGGGAGTGGCTTTTCCAGCTCTCATGCCCCGAGTGTGGAACAAGGCAGAAAAGGATCCTAGGAAATAAGTC
TCTTGGCGGTCCCTGAGAGTCTGTGTAATCCAGCCAGTGTTTTTTGTGGTATGAGAACAGGCAGGCAAAAGAGATG
CCCCGAGATAGAAGGGGAGCCTTGTGTTTCTTTCCTGCAGACGTGAGATGAACACTGGAGTGGGCAGAGGTGGCM
CAGGACCATGGCACCTTAGAGTGCAGAAGCTGGGGGGAGAGGCTGCTTCGAAGGGCAGGACTGGGGATACCTGC
CTGTACCTCAGGGCATCACTGAACAAACATTTCTGATGGSAACTCCTGCGGCAGAGCCCAGGCTGGGGAAAGTG
AACTACCCAGGGCAGCCCCCTTGTGGCCAGGATAATCAACACTGTTCTCTGTACCATGAGCTCCTCCAGGAG
ATTATTTAAGTGTATTGTATCATTGGTTTTCTGTGATTGTCAACATTGTTTTTGTATTGTTGGTGCTGTTGT
TATTTATTATTGTAATTTAGTTTTGCCTCTACTGGAGAATCTCAGCAGGGGTTTCAGCCTGACTGTCTCCCTTTC
TCTACCAGACTCTACCTCTGAATGTGCTGGGAACCTCTTGAGCCTGTCAGGAACCTCCTCACTGTTTTAAATATTT
ATTTATTGTGACAAATGGAGCTGGTTTTCTAGATATGAATGATGTTTGCAATCCCCATTTTCTGTTTCAGCATG
TTATATTCTTATAAAATAAAAGCAAAAGTCAAATATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 803

MCRTLAAFPTTCLERAKEFKTRLGIFLHKSELGCDTGSTGKSEWGSKHSENRRNFSEDVLGWRESFDLLLSSKNG
VAAFHAFKTEFSEENLEFWLACEEFKKIRSATKLASRAHQIFEEFICSEAPKEVNIDHETRELTRMNLQTATAT
CFDAAQGKTRTLMKDSYPRFLKSPAYRDLAAQASAASATLSSCSLDEPSHT

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FIGURE 804

GGATCCGCGCGGCACACGTGCGACGGCCGTGATGAAGTTCGCTTACCGGTTTTCAAATTTGCTGGGTACGGTGTA
CCGGCGTGGGAACCTAAATTTTACCTGCAATGGAAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCACTGTATT
TGACCTTAAAAACAACAAATCTGACACGCTGCCCTGGCCACTCGGTACAACGTCAAGTGCCTGGGGCTGTCCCC
GGATGGCCGCTCGCTATCATCGTCGATGAAGGGGGCGATGCGCTGCTGGTCAGCCTGGTCTGCAGGTCTGTGCT
CAACACTTCCACTTCAAGGGCTCTGTGCACAGTGTGCTTCTCCCCCTGATGGCAGGAAGTTTGTGTACAAA
TAACATTGCCAGATGTATCATGCCCCCTGGGAAGAAGCGGGAGTTCAACGCCTTCGTTCTGGACAAGACCTA
TTGGGGCCCTACGATGAGACCACCTGCATCGACTGGACGGATGACTCCAGGTGCTTTGTGGTTGGGAGCAAAGA
AAGTCCACCTGGGTGTTTCGGAGCCGAGCGCTGGGACAACCTCATCTACTATGCACTGGGGGGACATAAGGATGC
CTCGTGGCCTGCTTCTTTGAATCCAACAGCCTGGACCTGTACTCACTCAGCCAGGACGGAGTGCTGTGCATGTG
AGTGTGACACGCCCCCGAGGGCTTGC GGCTGAAGCCCCCTGCGGGCTGGAAAGCAGACCTGTTGCAGCGGGA
AGGAAGAGGAGGAGGAGGAGGAGGACCAGGAGGGCGACAGAGAGACCACCATCCGGGGAAAAGCCACTCCGGCCGA
AGGAGAAGACAGGAAAAGTGAAGTACTCAGCGCTGGCCAAGTACTTCTTCAATAAAGAAGGGGATTTTAAACA
TGACAGCTGCAGCATTTTATAAGAAGTCTCACCTCTTGGTCACTGGCTTTGCTTCTGGAATCTTCCATCTTCA
GAGCTGCCAGAGTTTAACTCATCCACTCCCTGAGCATCTCAGATCAGAGCATCGCCTCAGTGGCCATCAATAG
CTCGGGGGACTGGATTGCTTTTGGCTGTTCAGGCTGGGCCAGCTGCTGGTGTGGGAGTGGCAGAGTGAGTCCTA
CGTGCTCAAGCAGCAGGGCCACTTCAACAGCATGGTGGCCCTGGCCTACTCGCCCGACGGACAGTACATCGTGAC
TGGCGGGGACGACGGCAAGGTCAAGGTGTGGAATACCCTCAGCGGCTTCTGCTTCGTCACTTTTACGGAGCACTC
CAGCGGGGTGACCGGTGTGACCTTTACTGCCACCGGCTACGTTGTGGTGACCTCATCCATGGACGGGACCGTGGC
AGCCTTTGACCTTACAGGTACCGAACTTCCGCACCTTACCTCTCCACGCCCCACCCAGTTCTCCTGTGTGGC
GGTGGATGCGAGCGGTGAGATCGTCTCTGCAGGGGCGCAGGACTCCTTTGAGATTTTCGTGTGGTCCATGCAGAC
AGGCAGGCTCCTTGATGTTTTGTCTGGACACGAAGGGCCCATCAGTGGTCTGTGTTTTAACCAATGAAGTCCGT
CCTGGCCAGTGCTCCTGGGACAAGACGGTGC GCCTATGGGACATGTTTGACAGCTGGAGGACCAAGGAGACGCT
GGCCCTGACCTCTGATGCTCTGGCTGTGACTTTTCGCCCTGATGGTGGGAGCTGGCTGTGGCCACACTGAACTC
ACAGATCACCTTCTGGGACCCCTGAGAACGCGGTGCAGACGGGCTCCATTGAGGGCAGGCATGACCTCAAGACTGG
CAGGAAGGAGCTGGACAAGATTACAGCCAAGCACGCGGCCAAGGGGAAGGCCTTCAACGCCCTGTGCTACTCTGC
AGACGGCCACAGCATCCTGGCGGGAGGCATGTCCAAGTTTCGTGTGCATCTACCACGTCCGTGAGCAGATTCTCAT
GAAGAGGTTTCGAGATCTCTTGCAACCTGTCTCTGGACGCCATGGAGGAATTTTGAACCGAAGAAAAATGACAGA
GTTTGGCAACCTGGCACTAATTGATCAGGATGCTGGGCAGGAGGATGGAGTCGCGATACCACTGCCAGGCGTCAG
GAAAGGTGACATGAGTTCTCGGCACCTTCAAACCTGAGATCAGGGTGACCTCACTCCGCTTCTCTCCCACTGGGCG
CTGCTGGGCGGGCACCACCACGGAGGGACTCCTCATCTACTCCCTGGACACCCGCGTGCTCTTTGACCCGTTTGA
GCTGGACACCAGCGTCACCCCGGGAGGGTGCGCGAGGCACTGCGCCAGCAGGACTTCAACAGGGCCATCCTCAT
GGCCCTCCGGCTCAACGAGAGCAAACCTGGTGCAGGAGGCCCTGGAGGCGGTGCCAGGGGCGAGATTGAAGTGGT
CACCTCCTCCCTTCTTGAAGTGTATGTGGAGAAAGTGTGGAGTTTTTAGCTTCTCCTTTGAAGTGTCTCGCCA
CCTGGAATTCTACCTCCTCTGGACTCACAACTGCTCATGTTGCACGGACAGAAGCTGAAGTCCAGAGCCGGGAC
GCTGCTGCCTGTCAATTCAGTTCTTCCAGAAGAGCATCCAGCGGCACCTGGACGACCTGTGCAAACTCTGTAGCTG
GAACCACTATAACATGCAGTACGCACTAGCAGTTTCCAAGCAGCGGGGCACAAAACGCTCCCTAGACCCGCTGGG
AAGTGAGGAGGAGGCAGAAGCATCTGAAGATGACAGCCTGCATCTGCTTGGAGGAGGAGGCAGAGACTCAGAAGA
AGAGATGCTGGCCTAGAGCCAGCCGTTGCAGCGTTGGATTGTGCCGGCTAAGACCTGCCAGGGAGATGGGACCC
TTGTGCCACCTGGGCCAGCAAAGAGGAGGGGTCCAGAGAACAGCTGAAATACTGTCACTAGTGGTAGTACTTGC
TTTTCTGTGCACACATGTAGCCCATCAGGACAGCGAGCCGACGGGTACGCCAGGGGCGGCACGCACTGGCAC
CTGGCCCCAGGAGCGGGCCCGTGTGAACGGTGATGAATGTTGAAAATGCGTCTCAGAGAGGTATTACATGAAGT
TTGTATGAGACTTATTTATATTTTTTAACATAAAGGTTTGATAAAGAACTTAGGGATTAAAAAAGATGGAGTTT
CTAACGTGAGGATGAAGTCTACACTTCAGATTAAAAAGGGTTATGTTGTA

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FIGURE 805

MKFAYRFSNLLGTVYRRGNLNFCTCNGNSVISPVGNRVTVFDLKNNKSDTLPLATRYNVKCVGLSPDGR LAIIVDE
GGDALLVSLVCRSVLHHFHFKGSVHSVSFSPDGRKFVVTGKNIAQMYHAPGKKREFNAFVLDKTYFGPYDETTCI
DWTDDSRCFVVGSKDMSTWVFGAERWDNLIYYALGGHKDAIVACFFESNSLDLYSLSQDGVLCMWQC DTPPEGLR
LKPPAGWKADLLQREEEEEEEEDQEGDRETTIRGKATPAEEEEKTGKVKYSRLAKYFFNKEGDFNNLTAAAFHKKS
HLLVTGFASGIFHLHELPEFNLIHSLISDQSIASVAINSSGDWIAFGCSGLGQLLVWEWQSESYVLKQQGHFNS
MVALAYSPDGQYIVTGGDDGKVKVWNTLSGFCFVTFTEHSSGVTGVTFTATGYVVVTSSMDGTVRAFDLHRYRNF
RTFTSPRPTQFSCVAVDASGEIVSAGAQDSFEIFVWSMQTGRLLDVLSGHEGPISGLCFNPMKSVLASASWDKTV
RLWDMFDSWRKETLALTS DALAVTFRPDGAELAVATLNSQITFWDPENAVQTGSIEGRHDLKTGRKELDKITAK
HAAKGKAFTALCY SADGHSILAGGMSKFVCIYHVREQILMKRFEISCNLSLDAMEEFLNRRKMTEFGNLALIDQD
AGQEDGVAIPLPGVRKGDMSRHFKEIRVTS LRFSPTGRCWAGTTTEGLLIYSLDTRVLFDPFELDTSVTPGRV
REALRQQDFTRAILMALRLNESKLVQEAL EAVPRGEIEVVTSSLPELYVEKVLEFLASSFEVSRHLEFYLLWTHK
LLMLHGQKLKSRAGTLLPVIQFLQKSIQRHLDL SKLCSWNHYNMQYALAVSKQRGTRSLDPLGSEEEAEASED
DSLHLLGGGGRDSEEMLA

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FIGURE 806

CCCCGCGGGCTGCAGCGAGCCAGGCATGCTCACTGGCGCAGGCCCGGCCGAGCCGAGCAGGAAGCGCCGGCG
TAGGCGGCCCCCTGCGCTGCCAGCTGGAGCCGGGCGGAGCCAGCGCCCCGGCGCAGGGTGGCTCTGCCAGTCCCC
GCGCGCCTGGGCGGGCCGACACGTGTCCAGGCGTCACGTCCGCGCGCGCCCCGGGGCTTGCGTCAGCGGCTGTT
CCAGAAGCGGGTGGGCCAGGGCTCTGCGCACCGCTGGGGTTCGGGGCCCCGGGACGCCGCCGGGAGGAGGGCACCG
CGCGGGGTCCGACGCGGAGGCGTGCTCGGAACGCCGGGGGCTGCGGAGTGCATCAGCGCGGTCCAGCCCTCCGCC
TGCCGGGCGCGCAGCGTCTCCGCCGCCCGGACCTGGGCTGGGCGCCGTGGCGTTGCCTCGGAGCTCGCTGCCCGC
GGGGCGCGCACCGCCTTGACCCGGGCGGCCCGCGGCAGGCAGGCGCCCGCAGTTCCATGGTTGGTTTCGGAGCGC
GATGAGCCGCGCGTCTCCACCGGCCCCAGCGCTAATAAACCTGCAGCAAGCAGCCGCCGCCGAGCCCCAGCA
CACTCCGTCCCCGGCTGCGCCCCGGCGGCCGCCACCATCTCGGTGCGGGCCCCGGCTCGTCCGCGGTGCCCGC
CGCGGCGGCGGTGATCTCGGGCCCCGGCGGCGGCGGGGCCCGCGCGGTGTCCCCGAGCACCACGAGCTGAC
CTCGCTCTTCGAGTGTCCGGTCTGCTTTGACTATGTCTGCCTCCTATTCTGCAGTGCCAGGCCGGGCACCTGGT
GTGTAACCAATGCCGCCAGAAGTTGAGCTGCTGCCCCGACGTGCAGGGGCGCCCTGACGCCCAGCATCAGGAACCT
GGCTATGGAGAAGGTGGCCTCGGCAGTCTGTTCCTGTAAAGTATGCCACCACGGGCTGTTCCCTGACCCTGCA
CCATACGGAGAAACCAGAACATGAAGACATATGTGAATACCGCCCTACTCCTGCCCATGTCTGTGGTCTTCCTG
CAAGTGGCAGGGGTCCCTGGAAGCTGTGATGTCCCATCTCATGCACGCCACAAGAGCATTACCACCCCTTCAGGA
AGAAGACATCGTCTTTCTAGCTACAGACATTAACCTGCCAGGGGCTGTCGACTGGGTGATGATGCAGTCATGTTT
TGGCCATCACTTCATGCTGGTGTGGAGAAACAAGAGAAGTACGAAGGCCACCAGCAGTTTTTTGCCATCGTCCT
GCTCATTGGCACCCGCAAGCAAGCCGAGAACTTTGCCTACAGACTGGAGTTGAATGGGAACCGGCGGAGATTGAC
CTGGGAGGCCACGCCCCGCTCGATTATGACGGTGTGGCTGCGGCCATCATGAACAGCGACTGCCTTGTTTTCGA
CACAGCCATAGCACATCTTTTTGCAGATAATGGGAACCTTGGAATCAATGTTACTATTTCTACATGTTGTCCATG
ATGTGACTTCCGTAAACCTTCAAAATTATTTGGGCATACTGCTCTATGTTTAATAAAGGTTTTTATAGATGTTTT
ATTCCATATGTCTTCACAAGTCAGGACCCACAATTACCCGTGTTTTGTTTGAACAGCAGTGTCCCATCTGGCTTC
GACCCAACAAAGTTCATTAACCTGGGATGAATGGGGTGGCCTGTTGGTGATTTGGATGCTGTTCTGTGATCTAA
AACAACCTCTTATTGAATTGTATTTACTCCCTAAACAACACTTGACAGGCTGTTGCACAGGGCTTCTATAGATCAG
TGTTGTTAGGAATGGGAGGCCCCCTTCCTGCCTGCCTTCCCATATTGGTCCCTTGACATTGACAAAAGCACAGTGAC
TGTCAGCAGATTCCCTTTACTTTTGTGTTGTGGGAGGTAGGAATTGTTTAAATGCATTTTAAACAGTGTTTCTGAAA
TTGGATGGCTGGCTAATAGACACTGAATCACCCGGAGTGCTTATCTTAAATTTGCAGATTTAGGGAGCCTGCCAA
TTTAACAGTCTCATCAGTGATCTTTCAACAGTAATGTTTGAGAATTACTGGGTAAATTTGTGGAAAGGGTCCAGA
TTTTAAAGGTGCTTTAAGGTTGCCCTCTGCCGATACTGTTTGTCTTTCTACTGTTTCATCCCCCTAACTTCCCCCA
ACCCTCAAATTAATACTAGAACTATAGATCCACATGAACGCACGCTGAGATTTGGCCACTCACC

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FIGURE 807

MSRPSSTGPSANKPCSKQPPPPQHQHTPSPAAPPAAATISAAGPGSSAVPAAAAVISGPGGGGGAGPVSPQHHELT
SLFECPVCFDYVLPPILQCQAGHLVCNQCRQKLSCCPTCRGALTPSIRNLAMEKVASAVLFPCKYATTGCSLTLH
HTEKPEHEDICEYRPYSCPCPGASCKWQGSLEAVMSHLMHAHKSITTLQEEDIVFLATDINLPGAVDWVMMQSCF
GHHFMLVLEKQEKYEGHQFFAIVLLIGTRKQAENFAYRLELNGNRRRLTWEATPRSIHDGVAAAIMNSDCLVFD
TAIAHLFADNGNLGINVTISTCCP

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FIGURE 808

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGC GCCTCTGCGCTCCGCGCCATGGCCGGCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG
AGCTGGACGGCGAGCGCGAGCGGGCGGAGAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTTCAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGCGGAGGTGTCTGAACTAAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAACTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAGACAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACTTAAGTATATTAAGCAAAACAGAAGAGTCTTGTTCACACAG
AAACTCTGGAGCTCCGTGGGTCTTTCTCTTCTCTTGTGAAGAAGTTCCTTTTGTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCACCAAGTTAAATCTCA
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTCAGCTCTCTTATTTTTTCCCTTAAGTAGCATTATTTCCT
AAGGTAGGCAGGGTATTTCCCTAGTAAGCATACTTTCTTAAGACGGAGGCCATTTGGTTCCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCAGTATCTAGTCGTGGATATAATTAACCGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAACATATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCCGGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCTT
CATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTGCGCTGTAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTCAGGAGTTCGAGACCAGCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATT
ATGGTGACGCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAG
ACTGCAGTGAGCCGATATCGCACACAGCGCTCCAGCCTGGTTCGACAGAGTGAGACTCCATCTCAAGAAAAATA
AAAATAAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGGAGTTC
AGTCCAATTCAGGTCAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAACTGGCCCAACTTCATTTCCATACTTCAGGGAACAGCAAAT
TGAGGATTTACTTATCTAGGACTT

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FIGURE 809

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ
KLEEAEKAADESERGMKVIENTRAMKDEEKMEIQEMQLKEAKHIAEEADRKYE EVARKLVILEGELERAEEERA EVS
ELKCGDLEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLEEKLA
QAKEENVGLHQTLTDQTLNELNCI

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FIGURE 810A

ATCTTTTTTTCATCTTCTAGCTGTAGCTCGGGCTGCTTGTGCGCTTGGCTCCCCCTCCCCCTTTGCTCTCTGCCT
CTCTTTTCCCCAGGACTTCGCTATTTTGTCTTTTTTAAAAAAGGCAAGAAAGAACTAAACTCCCCCTCCCTCTC
CTCCAGTCGGGCTGCACCTCTGCCTTGCACTTTGCACAGAGGTAGAGAGCGCGGAGGGAGAGAGAGGAAAGAAA
AAAAATAATAAAGAGAGCCAAGCAGAAGAGGAGGCGAGAAGCATGAAGTGTTAACTCCCCCGTGCCAAGGCCCGC
CCCCGGACAGACGCCCCGCCGCGCTTCCAGCCCCGAGCGGACGCCGCGCGCCGCCCTGCCTGCAGCCCCGGGC
BACGGCGAGCCCTTCCTTATGCAAAGCGCGCCAGCAGCGCGAAGGCGGGACGCCGCGCACCGGGCGGGGT
CAGCTTCGCGCGCGCAGCCACCACCGCGCCACCGCAGCTCGCGGAGGATCTTCCCGAGCCTGAAGCCGCC
GCTTCGGCGCGCAAGGAGGCGAGCGCAAGGAGGGGCGGGGCGAGCGAGGGAGCACATTGGCGTGAGCAGGGGGG
TAGGGCGGGCGCGGGGGGCGCGGGCAGGGCGGGGGGGTGTGTGTGTGTGAGCGCGCTTGGAGGTTTCGGGCCAG
ATCGCCGCGCAAGCTAGAAGCGCCCCAGCCCGGCAAGCTGGCTCACCCGCTGGCCACCAGCACAGCCCGCTG
CTTCTCTCTGCAGCCCATCTGGCGGAGCGGGCGGGCGGGCGGGCGGGCAGGAGAAATGCATCAGAAGTGGCA
AGCAACTCCGACCTGCCACCAGTCCCCTGGCCATGGAATATGTTAATGACTTCGATCTGATGAAGTTTGAA
AAAAAAGGAACCGGTGGAGACCGACCGCATCATCAGCCAGTGCGGCCGTCTCATCGCCGGGGGCTCGCTGTCC
ACCCCCATGAGCACGCCGTGCAGCTCGGTGCCCCCTTCCCCAGCTTCTCGCGGCCAGCCCGGGCTCGGGC
AGCGAGCAGAAGGCGCACCTGGAAGACTACTACTGGATGACCGGTACCCGCGAGCAGCTGAACCCGAGGCGCTG
GGCTTCAGCCCCGAGGACGCGGTTCGAGGCGCTCATCAGCAACAGCCACCAGCTCCAGGGCGGCTTCGATGGCTAC
GCGCGCGGGGCGCAGCAGCTGGCCGCGGGCGGCCGGGGCGGTGCCGCGCCTCCTTGGGCGGCAGCGGCGAGGAG
ATGGGCCCGCGGGCGCGCGTGGTGTCCGCCGTGATCGCCGCGGCCCGCGCAGAGCGGCGGGGCCGCGACTAC
CACCACCACCACCACCGCCGCCGCCACCACCACCACCCGACGGCGGGCGCGCCCGGCGCGGGCAGCGCG
GCCGCTTCGGCCGGTGGCGCTGGGGGCGCGGGCGGGCGGGTGGCCCGGCCAGCGCTGGGGGCGGGCGGGCGGGC
GGCGGCGGAGGCGGGGGGCGCGGGCGGGGGCGGGGGCGCCCTGCACCCGCACCACGCCGCCGGCGGGCTGCAC
TTCGACGACCGCTTCTCCGACGAGCAGCTGGTGACCATGTCTGTGCGCGAGCTGAACGGCGAGCTGCGCGGGGT
AGCAAGGAGGAGGTGATCCGGCTGAAGCAGAAGAGGCGGACCCCTGAAAAACCGCGGCTATGCCAGTCTGCCGC
TTCAAGAGGGTGCAGCAGAGACACGTCTTGAGTTCGGAGAAGAACCAGCTGCTGCAGCAAGTCGACCACCTCAAG
CAGGAGATCTCCAGGCTGGTGCAGGAGAGGACGCGTACAAGGAGAAATACGAGAAGTTGGTGAGCAGCGGCTTC
CGAGAAAACGGCTCGAGCAGCGACAACCCGTCTCTCCGAGTTTTTCAITGAGTCTGACACGCGATTCCAGCT
AGCCACCCTGATAAGTGCTCCGCGGGGTCCGGCTCGGGTGTGGGCTTGCTAGTTCTAGAGCCATGCTCGCCACC
ACCTCACCACCCCCACCCCCACCGAGTTTGGCCCCCTTGGCCCCCTACACACACACAAACCCGCACGCACACACC
ACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACACAC
GGGGAGGGAATGGGTGTCTGGCTCATGGATTGCCAATCTGAAATTCTCCATAACTTGCTAGCTTGTTTTTTTTT
TTTTTTTTTACACCCCCCGCCCCACCCCCCGGACTTGCACAATGTTCAATGATCTCAGCAGAGTTCTTCATGTGA
AACGTTGATCACCTTTGAAGCCTGCATCATTCACATATTTTTTCTTCTTCTTCCCCCTTCAGTTTCATGAAGTGGTG
TTCATTTTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
CTTGCCACCTCTTTTCCAACCTCCACCCTCACTCTTCTCAACCCATCTCTCCGAGATGAAAGAAAAAAAAA
GCAAAGTTTTTTTTTCTCTCTCTGAGTTCTTCAGTGAGATTGAGCTTGCAAAGGAAAAAAAAAATGTGAAATGTTA
TAGACTTGACGCGTGCCGAGTTCCATCGGGTTTTTTTTTTTAGCATTGTTATGCTAAAAATAGAGAAAAAATCCTC
ATGAACCTTCCACAATCAAGCCTGCATCAACCTTCTGGGTGTGACTTGTGAGTTTGGCCTTGTGATGCCAAATC
TGAGAGTTTAGTCTGCCATTAAAAAACTCATTCTCATCTCATGCATTATTATGCTTGCTACTTTGTCTTAGCAA
CAATGAAGTATAACTGTTTCAAAGACTTTATGGAAAAGAGACATTATATTAATAAAAAAAAAAGCCTGCATGCTG
GACATATATGTTATAATTATTTTTTCTTTTTTTTTTCTTTTTGGCTTGGAAATGGACGTTTGAAGACTTATAGCA
TGGCATTCACTTTTGTGTATTGCCTCATGACTTTTTTGGAGTTTGAACAAAACAGTGCAACCGTAGAGCCTT
CTTCCCATGAAATTTTGCATCTGCTCCAAAACCTGCTTTGAGTTACTCAGAACTTCAACCTCCCAATGCACTGAAG
GCATTCTTGTCAAAGATACCAGAATGGGTTACACATTTAACCTGGCAAACATTGAAGAACTCTTAATGTTTTCT
TTTTAATAAGAATGACGCCCACTTTGGGGACTAAAATTGTGCTATTGCCGAGAAGCAGTCTAAATTTATTTTTX
AAAAAGAGAACTGCCCCATTATTTTTTGGTTTGTGTATTTTTTATTTTTTATTTTTTGGCTTTTGGTCATTGTCA
AATGTGGAATGCTCTGGGTTTCTAGTATATAATTTAATTCTAGTGTTTATAATCTGTTAGCCAGTTAAATGTA
TGCTACAGATAAAGGAATGTTATAGATAAATTTGAAAGAGTTAGGCTGTGTTAGCTGTAGATTTTTTAAACGATT
GATGCACTAAATTGTTTACTATTGTGATGTTAAGGGGGTAGAGTTTGAAGGGGACTGTTTAAAAAAGTAGCT

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FIGURE 810B

TATACAGCATGTGCTTGCAACTTAAATATAAGTTGGGTATGTGTAGTCTTTGCTATAACCACTGACTGTATTGAAA
ACCAAAGTATTAAGAGGGGAAACGCCCCTGTTTATATCTGTAGGGGTATTTTACATTCAAAAATGTATGTTTTTT
TTTCTTTTCAAAATTAAAGTATTTGGGACTGAATTGCACTAAGATATAACCTGCAAGCATATAATACAAAAAAA
ATTGCAAACTGTTTAGAACGCTAATAAAATTTATGCAGTTATAAAAATGGCATTACTGCACAGTTTTAAGATGA
TGCAGATTTTTTTACAGTTGTATTGTGGTGCAGAACTGGATTTTCTGTAACTTAAAAAAAATCCACAGTTTTAAA
GGCAATAATCAGTAAATGTTATTTTCAGGGACTACATCCTGTCTTTAAAAAGAAATGAAAAGTAAATCTTACCAC
AATAAATATAAAAAAATCTTGTCAAGTTACTTTTCTTTTACATATTTTGCTGTGCAAAATTGTTTTATATCTTGAG
TTACTAATAACCACGCGTGTGTTCCCTATGTGCTTTTCTTTCAATTTCAATTCTGGTTATATCAAGAAAAGATA
ATCTACAATAATAACGGCATTTTTTTTTTTGATTCTGTAAAAAAA

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FIGURE 811

MASELAMNSDLPTSPLAMEYVNDFDLMKFEVKKEPVETDRIISQCGRLIAGGSLSSTPMSTPCSSVPPSPSFSA
PSPGSGSEQKAHLEDYYWMTGYPQQLNPEALGFSPEDAVEALISNSHQLOGGFDGYARGAQQLAAGAGAGASL
GGSGEEMGPAAAVVSAVIAAAAAQSGAGPHYHHHHHHAAGHHHPTAGAPGAAGSAAASAGGAGGAGGGGPASAG
GGGGGGGGGGGAAGAGGALHPHHAAGGLHFDDRFSDEQLVTMSVRELNRQLRGVSKEEVIRLKQKRRTLKNRG
YAQSCRFKRVQQRHVLESEKNQLLQQVDHLKQEISRLVRERDAYKEYEKLVSSEGFRENGSSSDNPSSPEFFM

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FIGURE 812

AATCGCGAAACCCGGCGAGCGGCGCGCTGGCTATCGAGCGAGCGGGGCGGAACCGGGAGTTGCGCCGCGCTCGG
GCGCCGGGCTCCGTCGCGGCCGCGAGCCCCGCGGGTTCGCCCTCCCGTGCCTCGCCCCGCGGACACCCTGGCCGTGGA
CACCCTGGCCGTGGGCACCCGCGGGGCGCGGCGCGGGCGCTGCGCGGCGGCGGCGGGCGGC**ATGA**AGGTCACGTGCG
CTCGACGGGCGCCAGCTGCGCAAGATGCTCCGCAAGGAGGCGGCGGCGCGCTGCGTGGTGCTCGACTGCCGGCCC
TATCTGGCCTTCGCTGCCTCGAACGTGCGCGGCTCGCTCAACGTCAACCTCAACTCGGTGGTGCTGCGGCGGGCC
CGGGGCGGCGCGGTGTCGGCGCGCTACGTGCTGCCCCGACGAGGCGGCGCGCGCGCGGCTCCTGCAGGAGGGCGGC
GGCGGCGTTCGCGGCCGTGGTGGTGCTGGACCAGGGCAGCCGCCACTGGCAGAAGCTGCGAGAGGAGAGCGCCGCG
CGTGTCGTCCTCACCTCGCTACTCGCTTGCCCTACCCGCCGGCCCGCGGGTCTACTTCCTCAAAGGGGGATATGAG
ACTTTCTACTCGGAATATCCTGAGTGTTGCGTGGATGTAAAACCCATTTTACAAGAGAAGATTGAGAGTGAGAGA
GCCCTCATCAGCCAGTGTTGAAAACCAAGTGGTAAATGTCAGCTACAGGCCAGCTTATGACCAGGGTGGCCAGTT
GAAATCCTTCCCTTCCCTTACCTTGGAAGTGCTACCATGCATCCAAGTGCAGATTCCCTCGCCAACCTTGACATC
ACAGCCCTGCTGAATGTCTCCCGACGGACCTCCGAGGCGCTGCATGACCCACCTACACTACAAATGGATCCCTGTG
GAAGACAGCCACACGGCTGACATTAGCTCCCACTTTCAAGAAGCAATAGACTTCATTGACTGTGTGAGGGAAAAG
GGAGGCAAGGTCCTGGTCCACTGTGAGGCTGGGATCTCCCGTTACCCACCATCTGCATGGCTTACCTTATGAAG
ACCAAGCAGTTCCGCCTGAAGGAGGCTTCGATTACATCAAGCAGAGGAGGAGCATGGTCTCGCCCCAAGCTTTGGC
TTCATGGGCCAGCTCCTGCAGTACGAATCTGAGATCCTGCCCTCCACGCCCCAAGCCCCAGCCTCCCTCCTGCCAA
GGGAGGCGAGCAGGCTCTTCACTGATAGGCCATTTGCAGACACTGAGCCCTGACATGCAGGGTGCCTACTGCACA
TTCCCTGCCTCGGTGCTGGCACCGGTGCCCTACCCACTCAACAGTCTCAGAGCTCAGCAGAAGCCCTGTGGCAACG
GCCACATCCTGCT**TAA**AACTGGGATGGAGGAATCGGCCAGCCCCAAGAGCAACTGTGATTTTTGTTTTTAAGACT
CATGGACATTTTCATACCTGTGCAATACTGAAGACCTCATTCTGTCTATGCTGCCCCAGTGAGATAGTGAGTGGTCA
CCAGGCTTGCAATGAACCTCAGACGGACCTCAGGGTAGGTTCTCGGGACTGAAGGAAGGCCAAGCCATTACGGG
AGCACAGCATGTGCTGACTACTGTACTTCCAGACCCCTGCCCTCTTGGGACTGCCCAGTCCTTGACCTCAGAGT
TCGCCTTTTTCATTTCAAGCATAAGCCAATAAATACCTGCAGCAACGTGGGAGAAAGAAGTTGCTGGACCAGGAGA
AAAGGCAGTTATGAAGCCAATTCATTTTGAAGGAAGCACAATTTCCACCTTATTTTTTGAAGTTTGGCAGTTTCA
ATGTCTGTCTCTGTTGCTTCGGGGCATAAGCTGATCACCGTCTAGTTGGGAAAGTCACCCCTACAGGGTTTGTAGG
GACATGATCAGCATCCTGATTTGAACCCTGAAATGTTGTGTAGACACCCCTCTTGGGTCCAATGAGGTAGTTGGTT
GAAGTAGCAAGATGTTGGCTTTTCTGGATTTTTTTTGGCATGGGTCTTCACTGACCTTGGACTTTGGCATGATT
CTTAGTCATACTTGAACCTGTCTCATTCCACCTCTTCTCAGAGCAACTCTTCCCTTTGGGAAAAGAGTTCTTCAGA
TCATAGACCAAAAAAGTCATACCTTCGAGGTGGTAGCAGTAGATTCCAGGAGGAGAAGGGTACTTGCTAGGTATC
CTGGGTCACTGGCGGTGCAAACTGGTTTCCCTCAGCTGCCTGTCTTCTGTGTGCTTATGTCTCTTGTGACAATTG
TTTTCTCCCTGCCCTGGAGGTTGTCTTCAACTGTGGACTTCTGGGATTTGCAGATTTTGCACGTGGTACTAC
TTTTTTTTCTTTTGTCTGTTAGTTATTTCTCCAGGGGAAAAGGCAATAATTTTCTAAGACCCGTGTGAATGTGA
AGAAAAGCAGTATGTTACTGGTTGTTGTTGTTGTTCTTGTTTTTTATATGTAAATAAAAAATAGTGAAAGGAG

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FIGURE 813

MKVTSLDGRQLRKMLRKEAAARCVVLD CRPYLAFAASNVRGSLNVNLNSVVLRRARGGAVSARYVLPDEAARARI
LQEGGGGVAAVVVLDQGSRHWQKLREESAARVVLTSLLACLPA GPRVYFLKGGYETFYSEYPECCVDVKPISQEK
IESERALISQCGKPVVNVSYRPA YDQGGPVEILPFLYLGSAYHASKCEFLANLHITALLNVSRR TSEACMTHLHY
KWIPVEDSHTADISSHFQEAIDFIDCVREKGGKVLVHCEAGISRSPTICMAYLMKTKQFRLKEAFDYIKQRRSMV
SPNFGFMGQLLQYSEILPSTPNPQPPSCQGEAAGSSLI GHLQTLSPDMQGAYCTFPASV LAPVP THSTVSELSR
SPVATATSC

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FIGURE 814

AGCCGCCGCTCGCCGCTTCCCTCGTCGGAGCGGCCGCTCGTCCGCCCGGCTTGAGGCCCGCGGGGAGCGCGGC
GCAATTCGTGCGCCCGCGGGGGGGCGGCCCTCCCGGCATCTTCGCGGCGACCAAGGACTACCAGGAAGGGGAGCGG
CTGGGATGGCGCGTCCGCGGCCCGCGAGTACAAAGCGGGCGACCTGGTCTTCGCCAAGATGAAGGGCTACCCGC
ACTGGCCCGGCCCGGATTGATGAACTCCAGAGGGCGCTGTGAAGCCTCCAGCAAACAAGTATCCTATCTTCTTTT
TTGGCACCCATGAACTGCATTTCTAGGTCCCAAAGACCTTTTTCCATATAAGGAGTACAAAGACAAGTTTGAA
AGTCAAACAAACGGAAGGATTAAACGAAGGATTGTGGGAAATAGAAAATAACCCAGGAGTAAAGTTTACTGGCT
ACCAGGCAATTCAGCAACAGAGCTCTTCAGAACTGAGGGAGAAGGTGGAAATACTGCAGATGCAAGCAGTGAGG
AGAAGGTGATAGAGTAGAAGAAGATGGAAAAGGCAAAAGAAAAGAAATGAAAAAGCAGGCTCAAAACGGAAAAAGT
CATATACTTCAAAGAAATCCTCTAAACAGTCCCGGAAATCTCCAGGAGATGAAGATGACAAAGACTGCAAAGAAG
AGGAAAACAAAAGCAGCTCTGAGGGTGGAGATGCGGGCAACGACACAAGAAACACAACCTTCAGACTTGCAGAAAA
CCAGTGAAGGGACCTAACTACCATAATGAATGCTGCATATTAAGAGAAACCACAAGAAGGTTATATGTTTGGTTG
TCTAATATCTTGGATTTGATATGAACCAACACATAGTCCTTGTGTGTCATTGACAGAACCCAGTTTGTATGTAC
ATTATTCATATTCCTCTCTGTGTGTTTCGGGGGGAAAAGACATTTTAGCCTTTTTTAAAAGTTACTGATTTAAT
TTCATGTTATTTGGTTGCATGAAGTTGCCCTTAACCACTAAGGATTATCAAGATTTTTGCGCAGACTTATACATG
TCTAGGATCCTTTTATCAAGGCAGTTATGATCATCGTTTTCTGCCTTGACCCACCATCATCAAACTCAGTT
AAATATAAATTAACATTTTTTAGATGACCACTCAACATAATGCTTAAGAATGGAATTTCTCTCTGTGACAGAAC
CCAGGAATTAATTCCTAAATACATAACGTTGGTATATTGAAGACGAAATTAATTTGTCCTTCAGTTTTGAGGCC
ATGTGTAAAGTTTAACCATATTGTAAATATCTATTCCGTATTAGAAATAGCTAGTTGACAGCTTATACTTCTCA
AAATTCATATTGTTATGTACACAACTAAGTTTCTATATGTGAAGTTAGTGAGTCTTTTGTGTTACTCCAAAT
AAAGGCAATGATTTATTTTTTCCCAGTGCCAATACAATTTTGAGCTAAGCACTCAAGGTGGATACTTTACATTT
TAAAGCTGGAATCAGCAACAGCCCTATGGGAAACCAGACAAAGCATTGACTTTTAAATGTAGACTTTTAAATAA
ACTGTTTTCTTTTGGAACTACAATTAGAATAGTTAATATTCATCCTTAAACCATTATTATGTGTACATTATTGTT
GCTATTGTGATAATAGAGAATTTTATTTATTTTATGCCAGCTTATATTGTGAGAACACATTTAGTCAGTTTGGG
TTTTATCAATCCTGTTAATGCTTGTCTTGGAAACATCTTCGCGTATTCACGGTTTGTAGTTGAAAAGTTTACTG
TAAAAAATCAAAAACAAAAAATGTATTGTTTTTACAGAATAAATTTATTGGGATGTGTACTGGGAGTAAGATT
TGAGGTTGTAAGCAAACCTAAGTTAGTGTAATTTGGCTTCATATATGTAACGTGAGGTATTAATGTAATTCATATA
TTAAAGCAAAAATTGTTTCGCAGC

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FIGURE 815 ,

MARPRPREYKAGDLVFAKMKGYPHWPARIDELPEGAVKPPANKYPIFFFGTHETAFLGPKDLFPYKEYKDKFGKS
NKRKGFNEGLWEIENNPVGKFTGYQAIQQQSSSETEGEGGNTADASSEEGDRVEEDGKGKRKNEKAGSKRKKS
YTSKKSSKQSRKSPGDEDDKDCKEENKSSSEGGDAGNDRNTTSDLQKTSEGT

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FIGURE 816

GGCACGAGGCACGTGGTTATGCTGCCGGAGTTTGGGCCGCCACTGTAGGAAAAGTAACTTCAGCTGCAGCCCCAA
AGCGAGTGAGCCGAGCCGGAGCCATGGAGGGCCAGAGCGTGAGGAGCTGCTCGCAAAGGCAGAGCAGGACGAGG
CAGAGAAGTTGCAACGCATCACGGTGCACAAGGAGCTGGAGCTGCAGTTTGACCTGGGCAACCTGCTGGCGTCGG
ACCGGAACCCCCGACCGGGCTGCGGTGCGCCGGACCCACGCCGGAGGCCGAGCTACAGGCCCTGGCGCGGGACA
ACACGCAACTGCTCATCAACCAGCTGTGGCAGCTGCCCCAGGAGCGCGTGGAAGAGGGCAGATAGTGGCGCGGCTGC
CGGAGCCCACCACAGCCTGCCGCGAGAGAAGCCTCTGCCCCGACCGCGGCCACTTACACGCTGGCAGCAGTTTCG
CGCGCTCAAGGGCATCCGTCCCAAGAAGAAGACCAACCTGGTGTGGGACGAGGTGAGTGGCCAGTGGCGGCGGC
GCTGGGGCTACCAGCGCGCCCGGGACGACACCAAAGAATGGCTGATTGAGGTGCCCGCAATGCCGACCCCTTGG
AGGACCAGTTCGCCAAGCGGATTTCAGGCCAAGAAGGAAAGGGTGGCCAAGAACGAGCTGAACCGGCTGCGTAACC
TGGCCCGCGCGCACAAAGATGCAGCTGCCCAGCGCGCGCGGCTTGACCCCTACCGGACACCAGAGTAAGGAGGAGC
TGGGCCGCGCCATGCAAGTGGCCAAGGTCTCCACCGCCTCTGTGGGGCGCTTTCAGGAGCGCCTCCCCAAGGAGA
AGGTGCCCCGGGGCTCCGGCAAGAAAAGGAAGTTTCAACCCCTTTTCGGGGACTTTGCAGCCGAGAAAAAGAACC
AGTTGGAGCTGCTTCGTGTCATGAACAGCAAGAAGCCTCAGCTGGATGTGACTAGGGCCACCAATAAGCAGATGA
GGGAGGAGGACCAGGAGGAGGCCGCCAAGAGGAGGAAAAATGAGCCAGAAGGGCAAGAGAAAGGGAGGCCCGGCAGG
GGCCTGGGGGCAAGAGGAAAGGGGGCCCGCCAGCCAGGGAGGGAAGAGGAAAGGGGGCTTGGGAGGCAAGATGA
ATTCTGGGCGCCTGGCTTGGGTGGCAAGAGAAAAGGAGGACAGCGCCAGGAGGAAAGAGGAGGAAGTAATAGT
TTCTAACTGTCGGACCCGTCTGTAAACCAAGGACTATGAATACTAAATGTTAAGTTCTAGGCAATTATACGGGGA
CTCAGAAGGACCTGGCCGCTGCCTTCATTGAGTTTAAAGGGACAGGATTGCCCTTCCGTCAAGAAAGTATGTAAG
TGTTGGACTGCACAAATTAATGTTTTTCCCAACAACCGAGACTTTGGAGATTAAGAACTTATTTGAGGATTTAAGA
ATTAGGGAATAATTTGGTGGAAACCGGGAATGAGTTCTATTCTTAAACAGCCTTTTTTTTTTCTTTTAAATGTTG
GATATACGGCGAGGTAGAGTTGGCCATATTTACAGAGACTTAGATTGACGTATATGTTTCTGCATTATTTTACAA
CAAGTTTGTTGTATCAGAGCGGGAGTGCGGGGGAGGGAAAAGAAAACAAACAGTTTCAGAATTGAATAGGCAAGTGA
CTGTTTTAAAGATTAAAGTAATAAAGATGTCTTATCTAGTGTGACTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 817

MEGQSVEELLAKAEQDEAEKLQRI TVHKELELQFDLGNLLASDRNPPTGLRCAGPTPEAELQALARDNTQLLINQ
LWQLPTERVEEAIVARLPEPTTRLPREKPLPRPRPLTRWQQFARLKGIRPKKKTNLVWDEVSGQWRRRWGYQRAR
DDTKEWLI EVPGNADPLEDQFAKRIQAKKERVAKNELNRLRLN LARAHKMQLPSAAGLHPTGHQSKEELGRAMQVA
KVSTASVGRFQERLPKEKVPRGSGKKRKFQPLFGDFAAEKKNOLELLRVMNSKKPQLDVTRATNKQMREEDQEEA
AKRRKMSQKGKRKGGRQGPGGKRKGPPSQGGKRKGGLGGKMNSGPPGLGGKRKGGQRPGGKRRK

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FIGURE 818

GGGAGCGGCCGTGGAGCCCAATCGTTTCGCTCCCCCTTCCCGGGTCCGCGCGGGCGCCGCTCCGCCATTGCTGCG
AGCAGGAGCAGGAGACGCGGAGCTCGGAGCGCTGAGCTGACCTGCCGGAGCCGGGCGTGGGCTGCAGCCTCGGAG
CTCCCGGAACGATGGTGAAGTTGGGGAACAATTTTCGCAGAGAAGGGCACCAAGCAGCCGCTGCTGGAGGATGGCT
TCGACACCAATTCCCCTGATGACGCCCCCTCGATGTCAATCAGCTGCAGTTCCCGCCCCCGGATAAGGTGGTCGTGA
AAACTAAGACCGAGTATGAACCTGACCGCAAGAAAGGGAAAGCACGTCTCCCCAAATTGCTGAGTTCACCGTCA
GCATCACGGAGGGTGTACCGGAGAGGTTTAAGGTCTCCGTGTTGGTCCTCTTCGCCCTGGCCTTCCTCACCTGCG
TCGTCTTCTGGTTGTCTACAAGGTGTACAAGTATGACCGCGCCTGCCCCGATGGGTTCTCTCTCAAGAACACCC
AGTGCAATCCAGAAAGGCTTGGAGAGCTACTACGCGGAGCAAGACTCCAGTGCCCGGGAGAAATTTTACACAGTCA
TAAACCACTACAACCTGGCCAAGCAGAGCATCACGCGCTCCGTATCGCCCTGGATGTCAGTTCTGTCAGAAGAGA
AGCTGTCCGAGCAGGAGACTGAAGCGGCTGAGAAGTCAGCTTAGCGGGATGGGCAAGTTCCTTACAATGTGTCAC
TTGCAAATAACAAAGGGACTTTGAGGGACATTTTATTAAATATAATTACTGATACTTTAGAGGTTACTCATTTAC
GGTGCAATTGCTTCTGTTTGCTAATGCTGCTTTGCAAATAAACTTGCTGCCGACCACCCACGGGCATAAAATCA
AGTGCAATTCAGCATTGCCTAAAGAGCTCTGACACCACTTTTCATGTTAAGATCTTCATTTAGCTCCTTTACTGG
GATTTATTGGATGCTGTAAAAAATAAATTTTACTGATATGCGAAGGGTTTGGATCTCAGATAAATGCATTTT
GTGGAATTGATTTTCTGAACCGACCCTGCTGTCTGCAAACCTTCTCCATAGCCATATCTAGAGTGATCTCTCGC
TGTGCTAAGAGCAAGCCTACTTCGCATTTCTTCTCGGCCATCAGCGGGTAACAGTGCTGACTGCTGCCAAGGTG
CACTGTAGTAAGGTGTCTGGAGACACAGACCGTGACCTTGGCGCAGCGGTGTGCATCAGAGGCGTGTGCTGAGAA
GGGTGGTGTTAAGCTGTGGAATAATGACTCAAGAGCAATAAATCAGTGCCAAAGCTTCCCTGCGCATCTGAATAGA
CACAAGTGAAGCCCGTGTGCGCACAGTGACAGAGGCCGAGCCTGTATTTCCAGGTAGACGTGGACTTTATTGACTG
TGAATTCATTTACCTGTAACCTTCTGACATTTCACTCTGTGCAAATAAAGAACATGAGGATAAAAAAAAAAAAAA
AAA

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FIGURE 819

MVKLGNNFAEKGTKQPLLEDGFDTIPLMTPLDVNQLQFPPDKVVVVKTKTEYEPDRKKGKARPPQIAEFTVSITE
GVTERFKVSVLVLFALAF LTCVVFLVVYKVYKYDRACPDGFVLKNTQCIPEGLESYYAEQDSSAREKFYTVINHY
NLAKQSITRSVSPWMSVLSEEKLSEQETEA AEKSA

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FIGURE 820

GAGGGAAGTGTCGACTGCGCCGGCGGGAACAGACATGCTGCGGCCAAGAAGCAGAAGCTGAGCAGTGACGAGAA
CAGCAATCCAGAACTCTCTGGAGACGAGAATGATGACGCTGTCAGTATAGAAAGTGGTACAAACACTGAACGCCC
TGATACACCTACAAACACGCCAAATGCACCTGGAAGGAAAAGTTGGGGAAAGGGAAAATGGAAGTCAAAGAAATG
CAATATTCTTTCAAATGTGTAAATAGTCTCAAGGAAGATCATAACCAACCATTGTTTGGAGTTCAGTTTAACTG
GCACAGTAAAGAAGGAGATCCATTAGTGTTTGCAACTGTAGGAAGCAACAGAGTTACCTTGTATGAATGTCATTC
ACAAGGAGAAATCCGGTTGTTGCAATCTTACGTGGATGCTGATGCTGATGAAAACCTTTTACACTTGTGCATGGAC
CTATGATAGCAATACGAGCCATCCTCTGCTGGCTGTAGCTGGATCTAGAGGCATAATTAGGATAATAAATCCTAT
AACAAATGCAGTGTATAAAGCACTATGTTGGCCATGGAAATGCTATCAATGAGCTGAAATTCATCCAAGAGATCC
AAATCTTCTCCTGTCAGTAAGTAAAGATCATGCTTTACGATTATGGAATATCCAGACGGACACTCTGGTGGCAAT
ATTTGGAGGCGTAGAAGGGCACAGAGATGAAGTTCTAAGTGCTGATTATGATCTTTTGGGTGAAAAATAATGTC
CTGTGGTATGGATCATTCTCTTAACTTTGGAGGATCAATTCAAAGAGAATGATGAATGCAATTAAGGAATCTTA
TGATTATAATCCAAATAAACTAACAGGCCATTTATTTCTCAGAAAATCCATTTTCTGATTTTTCTACCAGAGA
CATACATAGGAATTATGTTGATTGTGTGCGATGGTTAGGCGATTTGATACTTTCTAAGTCTTGTGAAAATGCCAT
TGTGTGCTGGAACCTGGCAAGATGGAAGATGATATAGATAAAATTAAACCCAGTGAATCTAATGTGACTATTCT
TGGGCGATTTGATTACAGCCAGTGTGACATTTGGTACATGAGGTTTTCTATGGATTTCTGGCAAAAGATGCTTGC
ATTGGGCAATCAAGTTGGCAAACCTTTATGTTGGGATTTAGAAGTAGAAGATCCTCATAAAGCCAAATGTACAAC
ACTGACTCATCATAAATGTGGTGCTGCTATTCGACAAACCAGTTTTAGCAGGGATAGCAGCATTCTTATAGCTGT
TTGTGATGATGCCAGTATTTGGCGCTGGGATCGACTTCGATATAAATACTTTTGCCTAATCAAAATTAATAATGTGT
TTGTTGTCTGTGTAAATAAAATTAATGTATCTTGCTAGTAAGGGCACGTAGAGCATTTAGAGTTGTCTTTCAGC
ATTCAATCAGGCTGAGCTGAATGTAGTGATGTTTACATTGTTTACATTCTTTGTACTGTCTTCTGCTCAGACTC
TACTGCTTTTAATAAAAATTTATTTTTG

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FIGURE 821

MPAAKKQKLSSDENSNPESGDENDDAVSIESGTINTERPDTPNTPNAPGRKSWGKGKWKSKKCKYSFKCVNSLK
EDHNQPLFGVQFNWHSKEGDPLVFATVGSNRVTLYECHSQGEIRLLQSYVDADADENFYTCAWTYDSNTSHPLLA
VAGSRGIIRIINPITMQCIKHVVGHNAINELKFHPRDPNLLSVSKDHALRLWNIQTDTLVAIFGGVEGHRDEV
LSADYDLLGEKIMSCGMDHSLKLWRINSKRMMNAIKESYDYNPNKTNRPFISQKIHFPDFSTRDIHRNYVDCVRW
LILSKSCENAIVCWKPGKMEDDIDKIKPSESNTILGRFDYSQCIDIWYMRFSMDFWQKMLALGNQVGKLYVW
EOPHKAKCTTLTHHKCGAAIRQTSFSRDSSILIAVCDDASIWRWDRLR

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FIGURE 822

GCACGAGGCGAGCTGGAGTGATCTTTATTACAAATGTCTTTACAAAGGCTCCTGCAACACAGCAGCAATGGCAAT
TTGGCGGACTTCTGCGCTGGGCCAGCGTATAGCTCTTACTCCACACTCACCGGCAGCCTTACGATGAACGATAAT
AGAAGGATTCAAATGCTAGCAGACACGGTGGCTACTCTGCCTCGGGGACGAAAGCAGCTTGCTTTGACCAGATCA
AGTTCTTTAAGTGACTTTTCTGGTCTCAAAGAAAGCTTGTTACTGTGGAGAAGCAGGATAATGAAACATTTGGA
TTTGAAATTCAGTCTTACAGGCCCCAGAATCAGAATGCCTGCTCCTCGGAAATGTTCACTTTGATATGCAAATA
CAGGAGGACAGCCCAGCTCACTGTGCTGGCCTGCAAGCTGGTGATGTCTTGCAAATATCAATGGTGTGAGCACA
GAAGGTTTTACCTACAAACAAGTCGTTGACCTGATCAGATCGTCCGGAAACCTGCTAACGATAGAGACTCTTAAT
GGAACAATGATTCTGAAAAGAACGGAGCTTGAAGCAAAGCTGCAGGTTTTAAAGCAAACCTTTGAAACAAAATGG
GTGGAGTACAGATCTCTGCAGTTACAGGAACATCGTCTGCTTCATGGTGATGCAGCTAATTGCCCCAGTTTGAA
AACATGGACTTGATGAATTGTCTTTGTTTGGACCCCTGCCTGGGCCAGGCCAGCCCTTGTTGGACCGGAATCGA
TTATCCAGTGAGAGCAGCTGTAAGAGCTGGCTGAGCTCCATGACGATGGACAGTGAAGATGGCTACCAGACGTGT
GTGTCTGAGGACTCCAGCAGGGGTGCCTTCAGTCGGCAGACGAGTACAGATGATGAGTGCTTTATCCCCAAGGAG
GGGGATGATTTTCTGAGGAGGTCACTTTCAAGGAGGAACCGGAGCATCAGTAACACCAGCAGCGGATCCATGTCT
CCCTTGTTGGGAGGGCAACTTATCAAGCATGTTTGGGACCCTGCCCCGGAAGAGCAGAAAGGGAAGTGTCCGAAAG
CAACTCTTGAAATTTATCCCTGGCCTTCATCGTGTGTGGAAGAGGAAGAAAGTCGCTTTTGACGGATTGTGGTG
TCCTTTCAAATTAGCTTATTTACAAATATCTCTAGACTCACCCAGATCCCAGCTTGTTGGGAAAGTGCAGAAGA
ATTGCAAACTGACATCCCATTTCACAGCAATAGTGACCTTTATTTAAATTGTTGTGTTATAGTTTATGCTTCTT
AAATCATTTTTCAACCTAAACAGCCAATTTCTAAGCAGACAGGAAAATAAATAAGTTAATTAATATAACAA
AGATGCAGGTTCTGCTCATTCCAGTAATGTCTTTGAAAGCAAACTAATATTTATTTCTAGATTATCCCTGTG
AATAATTGAGAATTTTTTGGAGTCAAGTATGAATAAAGGTGTGGCAGAATATAATAATCTGGACTATTTTCTATA
GGATAATTGCTGGGTTATAAAATCTTAGGTTTGCTTATGCCAGTAGCTCCTGCGGAGGCTTAATAATAGGCAAT
TTTGAATTTGTTCAAACCTGTAATGGCTTGTAACAAAGATGACCATCAGCTGTTTCTCACATCTATAGTGACAA
TAAAGCGGGAAGTATAAGATTTAATAGGAGGGGTTAAGGTTTCATGAGAACCATGGAAAGATGTGGTCTGAGATGG
GTGCTGCAAAGATCATAATAAAGTCATTTTATAGACAGTCTAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 823

MSLQRLQLQSSNGNLADFCAGPAYSSYSTLTGSLTMNDNRRIQMLADTVATLPRGRKQLALTRSSSLSDFSWSQR
KLVTVEKQDNETFGFEIQSYRPQNQNACSEMFTLICKIQEDSPAHCAGLQAGDVLANINGVSTEGFTYKQVVDL
IRSSGNLLTIETLNGTMILKRTELEAKLQVLKQTLKQKWVEYRSLQLQEHRLHGDAAANCPSLENMDLDELSLFG
PLPGPGPALVDRNRLSSESSCKSWLSSMTMDSGDYQTCVSEDSSRGAFSRQTSTDDECFIPKEGDDFLRRSSSR
RNRSISNTSSGSMSPLEWGNLSSMFGTLPRKSRKGSVRKQLLKFIPLHRAVEEEESRF

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FIGURE 824

ACTTTCTGCCCCCTTCCCCGGCCAAAGCCCAACTCCGGATCTCGCTCTCCACCGGATCTCACCCGCCACACCCGGA
CAGGCGGCTGGAGGAGGCGGGCGTCTAAAATTCTGGGAAGCAGAACCTGGCCGGAGCCACTAGACAGAGCCGGGC
CTAGCCAGAGACATGGAGAGTTGCTACAACCCAGGTCTGGATGGTATTATTGAATATGATGATTTCAAATTGAA
CTCCTCCATTGTGGAACCCAAGGAGCCAGCCCCAGAAACAGCTGATGGCCCCCTACCTGGTGATCGTGGAACAGCC
TAAGCAGAGAGGCTTCCGATTTCGATATGGCTGTGAAGGCCCTCCCATGGAGGACTGCCCGGTGCCTCCAGTGA
GAAGGGCCGAAAGACCTATCCCACTGTCAAGATCTGTAACACTACGAGGGACCAGCCAAGATCGAGGTGGACCTGGT
AACACACAGTGACCCACCTCGTGCTCATGCCCACAGTCTGGTGGGCAAGCAATGCTCGGAGCTGGGGATCTGCGC
CGTTTCTGTGGGGCCCAAGGACATGACTGCCCAATTTAACAACCTGGGTGTCCTGCATGTGACTAAGAAGAACAT
GATGGGGACTATGATACAAAACCTTCAGAGGCAGCGGCTCCGCTCTAGGCCCCAGGGCCTTACGGAGGCCGAGCA
GCGGGAGCTGGAGCAAGAGGCCAAAGAACTGAAGAAGGTGATGGATCTGAGTATAGTGC GGCTGCGCTTCTCTGC
CTTCTTAGAGCCAGTGATGGCTCCTTCTCCCTGCCCCCTGAAGCCAGTCACCTCCCAGCCCATCCATGATAGCAA
ATCTCCGGGGGCATCAAACCTGAAGATTTCTCGAATGGACAAGACAGCAGGCTCTGTGCGGGGTGGAGATGAAGT
TTATCTGCTTTGTGACAAGGTGCAGAAAGATGACATTGAGGTTTCGGTTCTATGAGGATGATGAGAATGGATGGCA
GGCCTTTGGGGACTTCTCTCCACAGATGTGCATAAACAGTATGCCATTGTGTTCCGGACACCCCCCTATCACAA
GATGAAGATTGAGCGGCCTGTAACAGTGTTTCTGCAACTGAAACGCAAGCGAGGAGGGGACGTGTCTGATTCCAA
ACAGTTCACCTATTACCTCTGGTGGAAGACAAGGAAGAGGTGCAGCGGAAGCGGAGGAAGGCCTTGCCCCACCTT
CTCCCAGCCCTTCGGGGGTGGCTCCACATGGGTGGAGGCTCTGGGGGTGCAGCCGGGGGCTACGGAGGAGCTGG
AGGAGGTGGCAGCCTCGGTTTTCTTCCCTCCTCCCTGGCCTACAGCCCCCTACCAGTCCGGCGCGGGCCCCATGCG
GTGCTACCCGGGAGGCGGGGGCGGGGCGCAGATGGCCGCCACGGTGCCAGCAGGGACTCCGGGGAGGAAGCCGC
GGAGCCGAGCGCCCCCTCCAGGACCCCCCAGTGCGAGCCGCAGGCCCCGGAGATGCTGCAGCGAGCTCGAGAGTA
CAACGCGCGCCTGTTCGGCCTGGCGCACGCAGCCCCGAGCCCTACTCGACTACTGCGTCAACGCGGACGCCGCGC
GCTGCTGGCGGGACAGCGCCACCTGCTGACGGCGCAGGACGAGAACGGAGACACACCACTGCACCTAGCCATCAT
CCACGGGCAGACAGTGTGATTGAGCAGATAGTCTATGTATCCACCACGCCCAGGACCTCGGGCTGTGCAACCT
CACCAACCACCTGCACCAGACGCCCCCTGCACCTGGCGGTGATCACGGGGCAGACGAGTGTGGTGAGCTTTCTGCT
GCGGGTAGGTGCAGACCCAGCTCTGCTGGATCGGCATGGAGACTCAGCCATGCATCTGGCGCTGCGGGCAGGCGC
TGGTGCTCCTGAGCTGCTGCGTGCACTGCTTCAGAGTGGAGCTCCTGCTGTGCCCCAGCTGTTGCATATGCCCTGA
CTTTGAGGGACTGTATCCAGTACACCTGGCGGTCCGAGCCCGAAGCCCTGAGTGCTGGATCTGCTGGTGGACAG
TGGGGCTGAAGTGGAGGCCACAGAGCGGCAGGGGGGACGAACAGCCTTGCACTAGCCACAGAGATGGAGGAGCT
GGGGTTGGTCACCCATCTGGTCACCAAGCTCCGGGCCAACGTGAACGCTCGCACCTTTGCGGGAAACACACCCCT
GCACCTGGCAGCTGGACTGGGGTACCCGACCCTACCCGCCTCCTTCTGAAGGCTGGTGCTGACATCCATGCTGA
AAACGAGGAGCCCCCTGTGCCCACTGCCTTACCCCTACCTCTGATAGCGACTCGGACTCTGAAGGGCCTGAGAA
GGACACCCGAAGCAGCTTCCGGGGCCACACGCCTCTTGACCTCACTTGACACCTTGGTGAAGACCTTGCTGCT
AAATGCTGCTCAGAACACCATGGAGCCACCCCTGACCCGCCCAGCCCAGCAGGGCCGGGACTGTCACTTGGTGA
TACAGCTCTGCAGAACCTGGAGCAGCTGCTAGACGGGCCAGAAGCCCAGGGCAGCTGGGCAGAGCTGGCAGAGCG
TCTGGGGCTGCGCAGCCTGGTAGACACGTACCGACAGACAACCTCACCCAGTGGCAGCCTCCTGCGCAGCTACGA
GCTGGCTGGCGGGGACCTGGCAGGTCTACTGGAGGCCCTGTCTGACATGGGCCTAGAGGAGGGAGTGAGGCTGCT
GAGGGGTCCAGAAACCCGAGACAAGCTGCCAGCACAGAGGTGAAGGAAGACAGTGCGTACGGGAGCCAGTCAGT
GGAGCAGGAGGCAGAGAAGCTGGGGCCACCCCTGAGCCACCAGGAGGGCTCTCGCACGGGCACCCCCAGCCTCA
GGTGACTGACCTGCTGCTGCCCCAGCCCCCTTCCCGGACCCCTGTACAGCGTCCCCACCTATTTCAAATCTT
ATTTAACACCCACACCCACCCCTCAGTTGGGACAAATAAGGATTCTCATGGGAAGGGGAGGACCCCGAATTCC

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FIGURE 825

MESCYNPGLDGIIEYDDFKLNSSIVEPKEPAPETADGPYLVIVEQPKQRGFRFRYGCCEGFSHGGLPGASSEKGRK
TYPTVKICNYEGPAKIEVDLVTHSDPPRAHAHSLVGKQCSELGICAVSVGPKDMTAQFNNLGVLVHTKKNNMGM
IQKLQRQLRSRPQGLTEAEQRELEQEAKELKKVMDLSIVRLRFS AFLRASDGSFSLPLKPVTSQPIHDSKSPGA
SNLKISRMDKTAGSVRGGDEVYLLCDKVQKDDIEVRFYEDDENGWQAFGDFSPTDVHKQYAIVFRTPPYHKMKIE
RPVTVFLQLKRKRGGDVSDSKQFTYYPLVEDKEEVQRKRRKALPTFSQPFGGGSHMGGGSGGAAGGYGGAGGGGS
LGFFPSSLAYSPIYQSGAGPMRCYPGGGGGAQMAATVPSRDSGEEAAEPSAPSRTPOCEPQAPPEMLQRAREYNARL
FGLAHAAPSPTRLLRHRGRRALLAGQRHLLTAQDENGDTPLHLAI IHGQTSVIEQIVYVIHHAQDLGVVNLTNHL
HQTPLHLAVITGQTSVVSFLLRVGADPALLDRHGDSAMHLALRAGAGAPPELLRALLQSGAPAVPQLLHMPDFEGL
YPVHLAVRARSPECLDLLVDSGAEVEATERQGGRTALHLATEMEELGLVTHLVTKLRANVNARTFAGNTPLHLAA
GLGYPTLTRLLKAGADIHAENEELCPLPSPPTSDSDSDSEGPEKDTRSSFRGHTPLDLTCLSTLVKTLNNAQ
NTMEPPLTPPSPAGPGLSLGDTALQNLEQLLDGPEAQGSWAELAERLGLRSLVD TYRQTTSPPSGSLLRSYELAGG
DLAGLLEALS DMGLEEGVRLLRGPETRDKLPSTEVKEDSAYGSQSVEQEAELGPPPEPPGGLSHGHPQPQVTDL
LPAPSPLPGPPVQRPFLFQILFNTPHPPLSWDK

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FIGURE 826

GGGGGTGGGAAGAGCTGAAGCAGGCGCTCTTGGCTCGGCGCGGCGCCGCTGCAATCCGTGGAGGAACGCGCCGCCG
AGCCACCATCATGCTTGGGCACCTTACAGGAAGGCTTCGGCTGCGTGGTCACCAACCGATTTCGACCAGTTATTTGA
CGACGAATCGGACCCCTTCGAGGTGCTGAAGGCAGCAGAGAACAAGAAAAAGAAGCCGGCGGGGGCGGCGTTGG
GGGCCCTGGGGCCAAGAGCGCAGCTCAGGCCGCGGCGCCAGACCAACTCCAACGCGGCAGGCAAAACAGCTGCGCAA
GGAGTCCCAGAAAGACCGCAAGAACCCGCTGCCCCCAGCGTTGGCGTGGTTGACAAGAAAGAGGAGACGCAGCC
GCCCCGTGGCGCTTAAGAAAGAAGGAATAAGACGAGTTGGAAGAAGACCTGATCAACAACCTTCAGGGTGAAGGGAA
AATAATTGATAGAAGACCAGAAAGGCGACCACCTCGTGAACGAAGATTGAAAAGCCACTTGAAGAAAAGGGTGA
AGGAGGCGAATTTTCAGTTGATAGACCGATTATTGACCGACCTATTTCGAGGTGCTGGTGGTCTTGGAAAGAGGTGCG
AGGGGGCCGCTGGACGTGGAATGGGCCGAGGAGATGGATTTGATTCTCGTGGCAAACGTGAATTTGATAGGCATAG
TGGAAGTGATAGATCTGGCCTGAAGCACGAGGACAAACGTGGAGGTAGCGGATCTCACAACTGGGGAACGTGTCAA
AGACGAATTAACCTGACTTGGATCAATCAAATGTGACTGAGGAAACACCTGAAGGTGAAGAACATCATCCAGTGGC
AGACACTGAAAAAAGGAGAATGAAGTTGAAGAGGTAAAAGAGGAGGGTCCAAAAGAGATGACTTTGGATGAGTG
GAAGGCTATTCAAATAAGGACCGGGCAAAAGTAGAATTTAATATCCGAAAACCAATGAAGGTGCTGATGGGCA
GTGGAAGAAGGGATTTGTTCTTCATAAATCAAAGAGTGAAGAGGCTCATGCTGAAGATTTCGGTTATGGACCATCA
TTTCCGGAAGCCAGCAAATGATATAACGTCTCAGCTGGAGATCAATTTTGGAGACCTTGGCCGCCAGGACGTGG
CGGCAGGGGAGGACGAGGTGGACGTGGGCGTGGTGGGCGCCCAAACCGTGGCAGCAGGACCGACAAGTCAAGTGC
TTCTGCTCCTGATGTGGATGACCCAGAGGCATTCCCAGCTCTGGCTTAACTGGATGCCATAAGACAACCCTGGTT
CCTTTGTGAACCCCTTCTGTTCAAAGCTTTTGCATGCTTAAGGATTCCAAACGACTAAGAAATTAATAAAAAAAG
ACTGTCATTATACCATTCACACCTAAAGACTGAATTTTATCTGTTTTAAAAATGAACCTCTCCCGCTACACAGA
AGTAACAAATATGGTAGTCAGTTTTGTATTTAGAAATGTATTGGTAGCAGGGATGTTTTATAATTTTCAGAGAT
TATGCATTCTTCATGAATACTTTTGTATTGCTGCTTGCAAAATATGCATTTCCAAACTTGAAATATAGGTGTGAAC
AGTGTGTACCAGTTTTAAAGCTTTTCACTTCATTTGTGTTTTTAAATTAAGGACTTAGAAGTTCCCCCAATTACAAA
CTGGTTTTTAATATTGGACATACTGGTTTTAATACCTGCTTTGCATATTCACACATGGTCAACTGGGACATGTTA
AACTTTGATTTGTCAAATTTTATGCTGTGTGGAATACTAACTATATGTATTTAACTTAGTTTTAATATTTTCAT
TTTGGGGGAAAATCTTTTTTCACTTCTCATGATAGCTGTTATATATATATGCTAAATCTTTATATACAGAAATA
TCAGTACTTGAACAAATTCAAAGCACATTTGGTTTATTAACCCCTTGCTCCTTGCTATGGCTCATTAGGTTCAAATT
ATACTAATTTACATTTTCAGCTATATTTACTTTTTAAATGCTTGAGTTTCCCATTTTAAATCTAACTAGACA
TCTTAATTGGTGAAGTTGTTTAACTACTTATTGTTGGTAGGCACATCGTGTCAAGTGAAGTAGTTTTATAGGT
ATGGGTTTTTCTCCCCCTTCACCAGGGTGGGTGGAATAAGTTGATTGGCCAATGTGTAATATTTAACTGTTC
TGTAATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 827

MPGHLQEGFGCVVTNRFDQLFDDSDPFVFLKAAENKKKEAGGGGVGGPGAASAAQAAQTNSNAAGKQLRKESQ
KDRKNPLPPSVGVVDKKEETQPPVALKKEGIRRVGRRPDQQLQGEKGIIDRRPERRPPRERRFEKPLEEKGE
FSVDRPIIDRPIRGRGGLGRGRGGRGRGMGRGDGFDNRGKREFDRHSGSDRSGLKHEDKRGGSGSHNWGT
TVKDEL
TDLQSNVTEETPEGEEHHPVADTENKENEVEEVKEEGPKEMTLDEWKAIQNKDRAKVEFNIRKPN
EGADGQWKK
LHKSSEEAAEDSMDHHRKPAANDITSQLEINFGDLGRPGRGRGGRGGRGGRGGRPNRGSRTDKSSASAP
PEAFFALA

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FIGURE 828

CTGTGCTGTAAAAACAAGAGTAACATTTTTATATTAAAGTTAAATAAAGTTACAACTTTGAAGAGAGTTTCTGCA
AGACATGACACAAAGCTGCTAGCAGAAAAATCAAAACGCTGATTAAAAGAAGCACGGTATGATGACCAAACATAAA
AAGTGTTTTATAATTGTTGGTGTTTTAATAACAATAATATTATTACTCTGATAGTTAAACTAACTCGAGATTCT
CAGAGTTTATGCCCCCTATGATTGGATTGGTTTCCAAAACAAATGCTATTATTTCTCTAAAGAAGAAGGAGATTGG
AATTCAAGTAAATACAACCTGTTCCACTCAACATGCCGACCTAACTATAATTGACAACATAGAAGAAATGAATTTT
CTTAGGCGGTATAAATGCAGTTCTGATCACTGGATTGGACTGAAGATGGCAAAAAATCGAACAGGACAATGGGTA
CATGGAGCTACATTTACCAAATCGTTTGGCATGAGAGGGAGTGAAGGATGTGCCTACCTCAGCGATGATGGTGCA
GCAACAGCTAGATGTTACACCGAAAGAAAATGGATTTCAGGAAAAGAATACACTAAGTTAATGTCTAAGATAAT
GGGAAAATAGAAAATAACATTATTAAGTGTAACAGCAAAGTACTTTTTTAATTAAACAAAGTTCGAGTTTT
GTACCTGTCTGGTTAATTCTGCTTACGTGTCAGGCTACACATAAAAGCCACTTCAAAGATTGGCAAAAAAAAAA
AAAAAAAAA

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FIGURE 829

MMTKHKKCFIIVGVLITTNIITLIVKLTRDSQSLCPYDWIGFQNKCYFYSKEEGDWNSSKYNCSQHADLTIIDN
IEEMNFLRRYKCSSDHWIGLKMAKNRTGQWVHGATFTKSFGMRGSEGCAYLSDDGAATARCYTERKWICRKRIH

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FIGURE 830

CTGAAGCTTGCAATGCCTGCAGGTCGACCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGTTTTTCTTTCTT
CCAGAAGGAGATTTAAACCATAGTAGAAAGAATGGAGAAGTATTAAGTGCCTTCCTTCTGTGGGCTGTGATTTTCA
GAGGGGAATGCTAAGAGGTGATTTTCAATGTTGGGACTCAAAGGTGAAGACACTGAAGGACAGAATTTTGGCAG
AGGAAAGATCTTCTTCGGTCACCATACTTGAGTTAGCTCTAGGGAAGTGGAGGTTTCCATTTGGAATTCTATAGC
TTCTTCCAGGTCATAGTGTCTGCCCCCACCTTCCAGTATCTCCTGATATGCAGCATGAATGAAAATGGCAAGTT
TCCTGGCCTTCTTCTGCTCAACTTTCGTGTCTGCCTCCTTTTGCTTCAGCTGCTCATGCCTCACTCAGCTCAGT
TTTCTGTGCTTGGACCCTCTGGGCCCCATCTGGCCATGGTGGGTGAAGACGCTGATCTGCCCTGTCACTGTTC
CGACCATGAGTGCAGAGACCATGGAGCTGAAGTGGGTGAGTTCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAG
ATGGAAGGAAGTGAAGACAGGCAGAGTGCACCGTATCGAGGGAGAAGTTCGATTCTGCGGGATGGCATCACTG
CAGGGAAGGCTGCTCTCCGAATACACAACGTCACAGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATG
GTGACTTCTATGAAAAAGCCCTGGTGGAGCTGAAGGTTGCAGCACTGGGTTCTGATCTTCACGTTGATGTGAAGG
GTTACAAGGATGGAGGGATCCATCTGGAGTGCAGGTCCACTGGCTGGTACCCCCAACCCCAATACAGTGGAGCA
ACAACAAGGGAGAGAACATCCCGACTGTGGAAGCACCTGTGGTTGCAGACGGAGTGGGCCTGTATGCAGTAGCAG
CATCTGTGATCATGAGAGGCAGCTCTGGGGAGGGTGTATCCTGTACCATCAGAAGTTCCTCCTCGGCCTGGAAA
AGACAGCCAGCATTTCCATCGCAGACCCCTTCTTCAGGAGCGCCAGAGGTGGATCGCCGCCCTGGCACGGACCC
TGCCTGTCTTGCTGCTGCTTCTTGGGGGAGCCGTTACTTCTGTGGCAACAGCAGGAGGAAAAAAGACTCAGT
TCAGAAAGAAAAAGAGAGAGCAAGAGTTGAGAGAAATGGCATGGAGCACAATGAAGCAAGAACAAGCACAAGAG
TGAAGCTCCTGGAGGAAGTCAAGATGGAGAAGTATCCAGTATGCATCTCGGGGAGAGAGACATTACGCCTATAATG
AATGGAAAAAGGCCCTCTTCAAGCCTGCGGATGTGATTCTGGATCCAAAAACAGCAAACCCCATCCTCCTTGTTT
CTGAGGACCAGAGGAGTGTGCAGCGTGCCAAGGAGCCCCAGGATCTGCCAGACAACCTGAGAGATTTAATTGGC
ATTATTGTGTTCTCGGCTGTGAGAGCTTCATATCAGGGAGACATTACTGGGAGGTGGAGGTAGGGGACAGGAAAG
AGTGGCATATAGGGGTGTGCAGTAAGAATGTGCAGAGAAAAGGCTGGGTCAAATGACACCTGAGAATGGATTCT
GGACTATGGGGCTGACTGATGGGAATAAGTATCGGACTCTAACTGAGCCCAAGCAACCTGAACTTCCTAAGC
CCCCAAGAAAGTGGGGGTCTTCTGACTATGAGACTGGAGATATCTCATTCTACAATGCTGTGGATGGATCGC
ATATTCATACTTCTCTGGACGTCTCCTTCTCTGAGGCTCTATATCCTGTTTTTCAGAAATTTGACCTTGGAGCCCA
CGGCCCTGAGTATTTGTCCAGCGTGAAGAAGAAGAGAGTTTCTCCAATTCTGACCGAGTGTGATCATTCCCT
AGAGACACCAGTAACCCCGGGCTTAGCTAACGAAAGTGGGGAGCCTCAGGCTGAAGTAAGTCTTCTGCTTCTC
CCTGCCAGCTCAGAGCTGAGGGCCTCCCCCTCCACAGCAACCAATCACAACCATAAAGCTACAAGCACGCACTG
AAGCACTTTACTGATACTCATTCAATTATTCATATGACAGTTGTTTGAGTTTGGTACCATCTTATTTTCCCTTA
TACAGATAAGGAACTGGGGTGCAGAAAAGTGAATTGACTACAAAGTAGACATGACTAGTTAACAACACAGCTGG
GATCTAAACAGCAATAACTAATTAATGGAGAAGTAAATGCTCTGAGTGTGTGTTATGAGCTTTGGTGGAT
GTCACCTCTTTAATCCTCGCAACACCCTGTGCGGTAGTCTCATTAGCAAGTATGGAAGTTGAGGCAGGGCAACA
TTAAGCAACTTACATAACTCATGCAGTAATTTCTGCAGTTGGGAGATGTTGAGCTTCAGTCCCCGGCCCTATGGC
CGTTCTTTTCCACCCTGTTTCTTCCCCCATAGGAAGAACCACCTGTAGCCCTGAGGTTCTTTTCCAGGATGGC
TCCAGGATAAGGATCACTGTAGGTGGTTGTGGAGTTGACACCCCTGTTGACTCCTTCCAGCTGATTGTGAGAGC
CTTAGACCCAGCACGCCTTGGATTAGCTTTGCAGAGTGTCTTGGTTGAGAGAATAACCTCACCGTACCCACATGA
CACGTGATTTGGAAAGAGACTAGAGGCCACACTTGATAAATCATGGGGAACAGATGTGTTCCACCCAACAAATGT
GATAAGTGATCATGCAGCCAGAGCCAGCCTTCTTCAATCAAGGTTTCCAGGCAGAGCAAATACCCTAGAGATT
TCTGTGATATAGGAAATTTGGATGAAGGGAGCTAGAAGAAATACAGGGATTTTTTTTTTTTTTAAAGATGGAGTC
TTACTCTGTTGCTAGGCTGGAGTGCAGTGGTGCATCTCAGCTCCCTGCAACCTCCACCTCCTGGGTCAAACAA
TTCTCCTGCCTCAGCCTCCCGAGTACTGGGAATATAGGTGCACGCCACCACACCCAACAAATTTTGTACTTTTA
GTACAGATGAGGGTTCACTATGTTGGCCAGGATGGTCTCGATCTCTTGACCTCATGATCCACCCACCTCGGTCTC
CCAAAGTGCTGGGATTACAGGCTTGAGCCACCGGGTGACCGGCTTACAGGGATATTTTTAATCCCGTTATGGACT
CTGTCTCCAGGAGAGGGTCTATCCACCCCTGCTCATTGGTGGATGTTAAACCAATATTCCTTTCACTGCTGCC
TGCTAGGGAAAACTACTCCTCATTATCATATTATTGCTCTCCACTGTATCCCTCTACCTGGCATGTGCT
TGTCAAGTTCTAGTTGTTCAATAAATTTGTTAATAATGCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 831

MKMASFLAFLLLNFRVCLLLLQLLMPHSAQFSVLGPSPILAMVGEDADLPCHLFPTMSAETMELKWVSSSLRQV
VNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYLCYFQDGDYFYEKALVELKVAALGSDL
HVDVKGYKDGGIHLECRSTGWYPQPQIQWSNNKGENIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSCIRSS
LLGLEKTASISIA DPFFRSAQRWIAALARTLPVLLLLLLGGAGYFLWQQQEEKKTQFRKKKREQELREMAWSTMKQ
EQSTRVKLLEELRWRSIQYASRGERHSAYNEWKKALFKPADVILDPKTANPILLVSEDQRSVQRAKEPQDLDPNP
ERFNWHYCVLGCEFSISGRHYWEVEVGDRKEWHIGVCSKNVQRKGWVKMTPENGFWTMGLTDGNKYRTLTEPRTN
LKLPPKPKKVGVF LDYETGDISFYNAVDGSHIHTFLDVSFSEALYPVFRILTLEPTALSICPA

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FIGURE 832

GACAGAGCCCGGGCCACGGAGCTCCTTGCCAGCTCTCCTCCTCGCACAGCCGCTCGAACCGCCTGCTGAGCCCCA
TGGCCCGCGCCACGCTCTCCGCCGCCCCCAGCAATCCCCGGCTCCTGCGGGTGGCGCTGCTGCTCCTGCTCCTGG
TGGCCGCCAGCCGGCGCGCAGCAGGAGCGCCCTGGCCACTGAACTGCGCTGCCAGTGCTTGCAGACCCCTGCAGG
GAATTCACCTCAAGAACATCCAAAGTGTGAAGGTGAAGTCCCCGGACCCCACTGCGCCCAAACCGAAGTCATAG
CCCACTCAAGAATGGGCAGAAAGCTTGTCTCAACCCCGCATCGCCCATGGTTAAGAAAATCATCGAAAAGATGC
TGAAAAATGGCAAATCCAACTGACCAGAAGGAAGGAGGAAGCTTATTGGTGGCTGTTCTGAAGGAGGCCCTGCC
TTACAGGAACAGAAGAGGAAAGAGAGACACAGCTGCAGAGGCCACCTGGCTTGCGCCTAATGTGTTTGAGCATAC
TTAGGAGAAGTCTTCTATTTATTTATTTATTTATTTATTTGTTTGTAGAAATTCTATGTTAATATTTTATG
TGTAATAAAGGTTATGATTGAATCTACTTGCACACTCTCCATTATATTTATTGTTTATTTTAGGTCAAACCCA
AGTTAGTTCAATCCTGATTCAATTTAATTTGAAGATAGAAGGTTTGCAGATATTCTCTAGTCATTTGTTAATAT
TTCTTCGTGATGACATATCACATGTCAGCCACTGTGATAGAGGCTGAGGAATCCAAGAAAATGGCCAGTAAGATC
AATGTGACGGCAGGGAAATGTATGTGTGTCTATTTTGTAAGTGAAGATGAATGTCAGTTGTTATTTATTGAAA
TGATTTACAGTGTTGGTCAACATTTCTCATGTTGAAGCTTTAAGAACTAAAATGTTCTAAATATCCCTTGGCA
TTTTATGTCTTTCTTGTAAGATACTGCCTTGTTAATGTTAATTATGCAGTGTTTCCCTCTGTGTTAGAGCAGAG
AGGTTTCGATATTTATTGATGTTTTCAAAAGAACAGGAAAATAAAATATTTAAAAATAT

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FIGURE 833

MA~~R~~ATLSAAPS~~N~~PRLLRVALL~~L~~LLVAASRR~~A~~AGAPLATELRCQCLQTLOGIHLKNIQSVKVKSPGPHCAQTEVI
ATLKNGQKACLN~~P~~ASPMVKKIIEKMLKNGKSN

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FIGURE 834

CAAATCCGTGCTCCTAGATTTGCAGGTTCTGATACTGTGGTTCGAGCTACACTCGCCGCCTGGGCAGACACTCGT
CCAAACCCTGGAGTGTGCTGGTGATCGCAGCCAGCCCTTCGCCTCTCCATGAACCCGTGAGCCTGGGGCAGGTG
CCAGGCGATGGCGCGGCCTGTGAGCGACAGGACCCCGGCCCTCTGCTGCTGGGCGGCGCCGGCCGACACCCCC
TGGCGGGGAGCGCTGCTTGGGTTGCGGAGCCTTCTGCAGGGGACCAGCAAGCCCAAAGAGCCGGCCAGCTGTCT
CCTGAAGGAAAAGGAGCGCAAGGCGGCCCTGCCTGCAGCCACAACCCCTGGGCCAGGCCTGGAGACTGCGGGCCC
GGCGGATGCCCCGGCTGGGGCAGTGGTGGGCGGAGGTTCCCCGCGGGGGCGCCCGGGGCGGTTGCCCCCCCCGGG
TCTGTTGGCGCCACTGCTGTGGGAGCGCACGCTGCCGTTCCGGCGATGTGGAGTACGTAGACCTGGACGCCTTCCT
GCTGGAGCACGGGCTCCCGCCCAGCCCGCCGCCCCCGGTGGCCCGTCGCCGGAGCCGTCGCCCGCGCGGACGCC
CGCACCTTCCCCAGGGCCGGGTTCTGTGCGGCTCGGCTTCCCCCGCTCCTCTCCTGGGCACGCCCCCGCCGGGC
TGCCCTCGGGACCGCCACGGGCCACCGCGCAGGCCTGACCTCTCGGGACACACCCAGCCCTGTGGACCCAGACAC
CGTGGAGGTGTTGATGACCTTTGAACCCGACCCAGCTGATCTTGCCCTATCAAGCATTCCTGGCCACGAGACCTT
TGACCCTCGAAGACATCGCTTCTCAGAAGAGGAACCTTAAGCCCCAGCCAATCATGAAGAAGGCAAGAAAAATCCA
GGTGCCGGAGGAGCAGAAGGATGAGAAATACTGGAGCCGGCGGTACAAGAACAACGAGGCAGCCAAGCGGTCCCG
TGACGCCCCGGCGGCTCAAGGAGAACCAGATATCGGTGCGGGCGGCCTTCCTGGAGAAGGAGAACGCCCTGCTGCG
GCAGGAAGTTGTGGCCGTGCGCCAGGAGCTGTCCCACTACCGCGCCGTGCTGTCCCGATACCAGGCCACGACGG
GGCCCTGTGAGGCTGCCCCACATCCCCACCTGGCAGGCGTCTCCTCCGCTTGCTGAGACTTACGCCCTGTTCCCT
TCCTGCCCTGTGCCCCAGGGCCGGCCAGCTGGGTGCCCCAGGGACGTGATAATGCAGATAAATACATTTATATT
TTAAGAAAAAGCGAGCCTCCCCCTCTTGCGGGGGCGGGAGGGTTCTCTGTGTGTCCCGGCACGTCAGGGACC
CTATCCTCCCACCGCCTCCGTTAACACGATCCTGAATAAATCTTGAGAACCCC

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FIGURE 835

MARPVSDRTPAPLLLGGPAGTPPGGGALLGLRSLLQGTSKPKEPASCLLKEKERKAALPAATTPGPGLETAGPAD
APAGAVVGGGSPRGRPGVPAPGLLAPLLWERTLPFGDVEYVDLDAFLLEHGLPPSPPPPGGFSPEPSPARTPAP
SPGPGSCGSASPRSSPGHAPARAALGTATGHRAGLTSRDTPSPVDPDTVEVLMTFEPDPADIALSSIPGHETFDP
RRHRFSEEELKPQPIKKARKIQVP EEQKDEKYWSRRYKNNEAAKRSRDARRLKENQISVRAAFLEKENALLRQE
VVAVRQELSHYRAVLSRYQAQHGAL

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FIGURE 836

AGACTCAACAAGAGCTCCAGCAAAGACTTTCACTGTAGCTTGACTTGACCTGAGATTAACTAGGGAATCTTGAGA
ATAAAGATGAGCTCTGAAAATTGTTTCGTAGCAGAGAACAGCTCTTGCATCCGGAGAGTGGACAAGAAAATGAT
GCCACCAGTCCCCATTTCTCAACACGTCATGAAGGGTCCTTCCAAGTTCCTGTCCTGTGTGCTGTAATGAATGTG
GTCTTCATCACCATTTTAATCATAGCTCTCATTGCCTTATCAGTGGGCCAATACAATTGTCCAGGCCAATACACA
TTCTCAATGCCATCAGACAGCCATGTTTCTTCATGCTCTGAGGACTGGGTTGGCTACCAGAGGAAATGCTACTTT
ATTTCTACTGTGAAGAGGAGCTGGACTTCAGCCAAAATGCTTGTTCTGAACATGGTGCTACTCTTGCTGTCTATT
GATTCTGAAAAGGACATGAACTTTCTAAAACGATACGCAGGTAGAGAGGAACACTGGGTTGGACTGAAAAAGGAA
CCTGGTCACCCATGGAAGTGGTCAAATGGCAAAGAATTTAACAACCTGGTTCAACGTTACAGGGTCTGACAAGTGT
GTTTTTCTGAAAAACACAGAGGTCAGCAGCATGGAATGTGAGAAGAATTTATACTGGATATGTAACAAACCTTAC
AAATAAATAAGGAAACATGTTCACTTATTGACTATTATAGAATGGAACCAAGGAAATCTGTGTCAGTGATGCTG
CTCTGTGGTCCGAAGTCTTCCATAGAGACTTTGTGAAAAAAATTTTATAGTGTCTTGGGAATTTTCTTCCAAAC
AGAACTATGGAAGGAAAGGAAAGAAATTCAGGAAATCTGCACTGTGGGCTTTTATTGCCATGAGCTAGAAGCAT
CACAGGTTGACCAATAACCATGCCCAAGAATGAGAAGAATGACTATGCAACCTTTGGATGCACTTTATATTATTT
TGAATCCAGAAATAATGAAATAACTAGGCGTGGACTTACTATTTATTGCTGAATGACTACCAACAGTGAGAGCCC
TTCATGCATTTGCACTACTGGAAGGAGTTAGATGTTGGTACTAGATACTGAATGTAAACAAAGGAATTATGGCTG
GTAACATAGGTTTTTTAGTCTAATTGAATCCCTTAAACTCAGGGAGCATTTATAAATGGACAAATGCTTATGAAAC
TAAGATTTGTAATATTTCTCTCTTTTTTAGAGAAATTTGCCAATTTACTTTGTTATTTTTCCCCAAAAGAATGGG
ATGATCGTGTATTTATTTTTTTTACTTCCTCAGCTGTAGACAGGTCCTTTTCGATGGTACATATTTCTTTCCTTT
ATAATCTTTTATACAGTGTCTTACAGAGAAAAGACATAAGCAAAGACTATGAGGAATATTTGCAAGACATAGAAT
AGTGTGGAAGAAATGTGCAATATGTGATGTGGCAAATCTCTATTAGGAAATATTCTGTAATCTTCAGACCTAGAAT
AATACTAGTCTTATAATAGGTTTGTGACTTTCTAAATCAATTCTATTACGTGCAATACTTCAATACTTCATTTA
AAATATTTTTATGTGCAATAAAATGATTTGTTGTATTTTGTGTTTCAGTACAATTATAAGCTGTTTTTATATAT
GTGAAATAAAAGTAGAATAAACACAAAAA

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FIGURE 837

MSSENC FVAENSSLHPESGQENDATSPHFSTRHEGSFQVPVLCVMNVVFITILIIALIALSVGQYNCPGQYTFS
MPSDSHVSSCEDWVG YQRKCYFISTVKRSWTS AQNACSEHGATLAVIDSEKDMNFLKRYAGREEHWVGLKKEPG
HPWKWSNGKEFNW FNVGTGSDKCVFLKNTEVSSMECEKNLYWICNKPYK

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FIGURE 838

GGGCAAGAGTTGGGCAAAAAAATCAAGGTATTTGGTCCCGGAACAAAGCTTATCATTACAGATAAAACAACTTGAT
GCAGATGTTTCCCCCAAGCCCACTATTTTTCTTCCTTCAATTGCTGAAACAAAGCTCCAGAAGGCTGGAACATAC
CTTTGTCTTCTTGAGAAATTTTTCCCTGATGTTATTAAGATACATTGGCAAGAAAAGAAGAGCAACACGATTCTG
GGATCCCAGGAGGGGAACACCATGAAGACTAACGACACATACATGAAATTTAGCTGGTTAACGGTGCCAGAAAAG
TCACTGGACAAAGAACACAGATGTATCGTCAGACATGAGAATAATAAAAACGGAGTTGATCAAGAAATTATCTTT
CCTCCAATAAAGACGGATGTCATCACAATGGATCCCAAAGACAATTGTTCAAAAAGATGCAAATGATACACTACTG
CTGCAGCTCACAAACACCTCTGCATATTACATGTACCTCCTCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATC
ATCACCTGCTGTCTGCTTAGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGACGGTGGCACAAGGA
GGCCATCTTTTCCTCATCGGTTATTGTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTTCTGGGTTT
GGGCCATTTTCAAGTTCTCATGTGTGTACTATTCTATCATTATTGTATAACGGTTTTCAAACCAAGTGGGCACACAGA
GAACCTCACTCTGTAATAACAATGAGGAATAGCCACGGCGATCTCCAGCACCAATCTCTCCATGTTTTCCACAGC
TCCTCCAGCCAACCCAAATAGCGCCTGCTATAGTGTAGACATCCTGCGGCTTCTAGCCTTGTCCTCTCTTAGTG
TTCTTTAATCAGATAACTGCCTGGAAGCCTTTCAATTTACACGCCCTGAAGCAGTCTTCTTTGCTAGTTGAATTA
TGTGGTGTGTTTTTCCGTAATAAGCAAAATAAATTTAAAAAATGAAAAGTT

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FIGURE 839

MQMFPPSPPLFFFLQLLKQSSRRLEHTFVFLRNFSMLLLRYIGKKRRATRFWDPRRGTP

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FIGURE 840

GGCTCCTTCGGGAAACCCAGCCCCGTCACCGGGCTCCGAGCGGCTCGCAGGCGAGCGACAGCGGCCTCAGCCCCG
GCAGCGCCAGCGGCGGCTGCGGAAAGCGGAGGGAGTCCGACGCGGGCGCGGGCGGGGAGCGTGCGTCCGTTTCGC
ACAGGCAGCGGGAGGAGGGGCGGCGCGAACCATGGCCGGGGACAGCGAGCAGACCCTGCAGAACCACCAGCAGCC
CAACGGCGGCGAGCCCTTCCTTATAGGCGTCAGCGGGGGAACAGCTAGCGGCAAGTCTTCCGTGTGTGCTAAGAT
CGTGCAGCTCCTGGGGCAGAATGAGGTGGACTATCGCCAGAAGCAGGTGGTCATCCTGAGCCAGGATAGCTTCTA
CCGTGTCCTTACCTCGGAGCAGAAGGCCAAAGCCCTGAAGGGCCAGTTCAACTTTGACCACCCGGATGCCTTTGA
CAATGAACTCATTCTCAAAACACTCAAAGAAATCACTGAAGGGAAAAACAGTCCAGATCCCCGTGTATGACTTTGT
CTCCCATTCCCGGAAGGAGGAGACAGTTACTGTCTATCCCGCAGACGTGGTGCTCTTTGAAGGGATCCTGGCCTT
CTACTCCCAGGAGGTACGAGACCTGTTCCAGATGAAGCTTTTTGTGGATACAGATGCGGACACCCGGCTCTCACG
CAGAGTATTAAGGGACATCAGCGAGAGAGGCAGGGATCTTGAGCAGATTTTATCTCAGTACATTACGTTTCGTCAA
GCCTGCCTTTGAGGAATTCTGCTTGCCAACAAAGAAGTATGCTGATGTGATCATCCCTAGAGGTGCAGATAATCT
GGTGGCCATCAACCTCATCGTGCAGCACATCCAGGACATCCTGAATGGAGGGCCCTCCAAACGGCAGACCAATGG
CTGTCTCAACGGCTACACCCCTTACGCAAGAGGCAGGCATCGGAGTCCAGCAGCAGGCCGATTGACCCGTCTC
CATCGGACCCCAGCCCCTATCTCCAAGAGACAGAGGAGGGGTCAGGAGGCACTGCTCATCTGTACATACTGTTTC
CTATGACATTACTGTATTTAAGAAAACACCATGGAGATGAAATGCCTTTGATTTTTTTTTTTCTTTTTGTACTTTG
GAACGACAAAATGAAACAGAACTTGACCCTGAGCTTAAATAACAAAACGTGCGCAACTACTACTGGTGATGCCTA
ATTATGAATCCAACGTGTAACCAGTTATAAATACATATATATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 841

MAGDSEQTLQNHQQPNNGGEPFI.IGVSGGTASGKSSVCAKIVQLLGQNEVDYRQKQVVILSQDSFYRVLTSEQKAK
ALKGQFNFDHPDAFDNELILKTLKEITEGKTQIPVYDFVSHSRKEETVTVYPADVVLFEGLAFYSQEVRLDFQ
MKLFVDTDADTRLSSRVLRDISERGRDLEQILSQYITFVKPAFEEFCLPTKKYADVIIIPRGADNLVAINLIVQHI
QDILNGGPSKRQTNGCLNGYTPSRKRQASESSSRPH

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FIGURE 842

TGCTTAAAAAACACAACAGGATTTTCGAAGAATCCTTTCTTAGAAAACAAACAAAAAACCAAACAAAAACGTA
CTTTCTCCCCACTAGTTTACACCACAGGAAGCGAGAGAGCTGCTGCCACTGCTGCTACCACAGGAAGACACAGCA
GGGAGAAGCCCTAGTGCCTCTGCCGGCTGCCCAGGACCTGGTATCGGCCCACAGACCAAGTCTCCACAGAGGGC
GAGCCAGGGTGGAGAAGAGCCAGCCCAGTGACCCAAACATCCCCGATAAAACACCCACTGCTTAAGAGGCAGGCT
CGGATGGACTATAGCTTTGATACCACAGCCGAAGACCTTGGGTTAGGATTTCTGACTGCATCAAAAACTTATTT
AGCCCCATCATGAGTGAGAACCATGGCCACATGCCTCTACAGCCCAATGCCAGCCTGAATGAAGAAGAAGGGACA
CAGGGCCACCCAGATGGGACCCACCAAAGCTGGACACCGCCAATGGCACTCCCAAAGTTTACAAGTCAGCAGAC
AGCAGCACTGTGAAGAAAGGTCCTCCTGTGGCTCCCAAGCCAGCCTGGTTTCGCCAAAGCTTGAAAGGTTTGAGG
AATCGTGCTTCAGAGCCAAGAGGGCTCCCTGATCCTGCCTTGTCCACCCAGCCAGCACCTGCTTCCAGGGAGCAC
CTAGGATCACACATCCGGGCCTCCTCCTCCTCCTCCATCAGGCAGAGAATCAGCTCCTTTGAAACCTTTGGC
TCCTCTCAACTGCCTGACAAAGGAGCCCAGAGACTGAGCCTCCAGCCCTCCTCTGGGGAGGCAGCAAAACCTCTT
GGGAAGCATGAGGAAGGACGGTTTTCTGGACTCTTGGGGCGAGGGGCTGCACCCACTCTTGTGCCCCAGCAGCCT
GAGCAAGTACTGTCTCGGGGTCCCTGTCAGCCTCCGAGGCCAGAGACCCAGGTGTGTCTGAGTCCCTCCCCCA
GGGCGGCAGCCCAATCAGAAAACCTTCCCCCTGGCCCGACCCGCTCCTAAGGCTGCTGTCAACACAGGCTGAG
GAATCTCAAGGCCCAGTGCTCAAGATGCCTAGCCAGCGAGCACGGAGCTTCCCCCTGACCAGGTCCCAGTCTGT
GAGACGAAGCTACTTGACGAAAAGACCAGCAAACTCTATTCTATCAGCAGCCAAGTGTCTCGGCTGTCTATGAAA
TCCTTGCTGTGCCTTCCATCTTCTATCTCCTGTGCCAGACTCCCTGCATCCCCAAGGCAGGGGCATCTCCAACA
TCATCATCCAACGAAGACTCAGCTGCAATGGTTCTGCTGAAACATCTGCCTTGGACACGGGGTTCTCGCTCAAC
CTTTTCAGAGCTGAGAGAATATACAGAGGGTCTCACGGAAGCCAAGGAAGACGATGATGGGGACCACAGTTCCCTT
CAGTCTGGTCAGTCCGTTATCTCCCTGCTGAGCTCAGAAGAATAAAAAACTCATCGAGGAGGTGAAGGTTCTG
GATGAAGCAACATTAAAGCAATTAGACGGCATCCATGTCAACCATCTTACACAAGGAGGAAGGTGCTGGTCTTGGG
TTCAGCTTGGCAGGAGGAGCAGATCTAGAAAACAAGGTGATTACGGTTTACAGAGTGTTCCAAATGGGCTGGCC
TCCCAGGAAGGGACTATTGAGAAGGGCAATGAGGTTCTTTCCATCAACGGCAAGTCTCTCAAGGGGACCACGCAC
CATGATGCCTTGGCCATCCTCCGCCAAGCTCGAGAGCCCAGGCAAGCTGTGATTGTCAAGGAAGCTGACTCCA
GAGGCCATGCCCGACCTCAACTCCTCCACTGACTCTGCAGCCTCAGCCTCTGCAGCCAGTGATGTTTCTGTAGAA
TCTACAGCAGAGGCCACAGTCTGCACGGTGACACTGGAGAAGATGTGCGGCAGGGCTGGGCTTCAGCCTGGAAGGA
GGGAAGGGCTCCCTACACGGAGACAAGCCTCTCACCATTAAACAGGATTTTCAAAGGAGCAGCCTCAGAACAAAGT
GAGACAGTCCAGCCTGGAGATGAAATCTTGCAGCTGGGTGGCACTGCCATGCAGGGCCTCACACGGTTTGAAGCC
TGGAACATCATCAAGGCACTGCCTGATGGACCTGTACGATTGTCTATCAGGAGAAAAAGCCTCCAGTCCAAGGAA
ACCACAGCTGCTGGAGACTCCTAGGCAGGACATGCTGAAGCCAAAGCCAATAACACACAGCTAACACACAGCTCC
CATAACCGCTGATTCTCAGGGTCTCTGCTGCCGCCCCACCCAGATGGGGGAAAGCACAGGTGGGCTTCCCAGTGG
CTGCTGCCCAGGCCCAGACCTTCTAGGACGCCACCCAGCAAAAGGTTGTTCTTAAATAAGGGCAGAGTCACACT
GGGGCAGCTGATACAAATTGCAGACTGTGTAAGAGAGAGCTTAATGATAATATTGTGGTGCCACAAATAAAATG
GATTTATTAGAATTCCATATGACATTGCTGCTGGCTTCGCAAAATGTTTCAAGTACTGTAAGTGTGTCTATGATT
CACCCCCAAACAGTGACATTTATTTTCTCATGAATCTGCAATGTGGGCAGAGATTGGAATGGGCAGCTCATCTC
TGTCCCACTTGGCATCAGCTGGCGTCATGCAAAGTCATGCAAAGGCTGGGACCACCTGAGATCATTCACTCATAC
ATCTGGCCGTTGATGTTGGCTGGGAATCACCTGGGGCTGCTGGCCTGAATGCTTATAGGTGGCCTCTCCTTGTG
GCCTGGGCTCCTCACAACATGGTGTCTGGATTCCCAGGATGAGCATCCAGGATCGCAAGAGCCACGTAGAAGCT
GCATCTTGTTTATACCTTTGCCTTGGAAAGTTGCATGGCATCACCTCCACCATACTCCATCAGTTAGAGCTGACAC
AAACCTGCCTGGGTTTAAAGGGGAGAGGAAATATTGCTGGGGTCATTTATGAAAAATACAGTTTGTACATGAAAC
ATTTGCAAAATTGTTTTTGGTTGGATTGGAGAAGTAATCCTAGGGAAGGGTGGTGGAGCCAGTAAATAGAGGAGT
ACAGGTGAAGCACCAAGCTCAAAGCGTGGACAGGTGTGCCGACAGAAGGAACCAGCGTGTATATGAGGGTATCAA
ATAAAATTGCTACTACTTACCTACC

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FIGURE 843

MDYSFDTTAE DPWVRISDCIKNLFSPIMSENHGHMPLQPNASLNEEEGTQGHDPDGTPPKLDTANGTPKVYKSADS
STVKKGPPVAPKPAWFRQSLKGLRNRASEPRGLPDPALSTQPAPASREHLGSHIRASSSSSSIRQRISSEFETFGS
SQLPDKGAQRLSLQPSSGEAAKPLGKHEEGRFSGLLGRGAAPTLVPQQPEQVLSSGSPAASEARDPGVSESPPPG
RQPNQKTFPPGPDPLRLLLSTQAEESQGPVLKMPSQRARSFPLTRSQSCETKLLDEKTSKLYSISSQVSSAVMKS
LLCLPSSISCAQTPCIPKAGASPTSSSNEDSAANGSAETSALDTGFSNLSELREYTEGLTEAKEDDDGDHSSLQ
SGQSVISLLSSEELKKLIEEVKVLDEATLKQLDGIHVTILHKEEGAGLGFSLAGGADLENKVI TVHRVFPNGLAS
QEGTIQKGNEVLSINGKSLKGTTHHDALAILRQAREPRQAVIVTRKLTPEAMPDLNSSTDSAASASAASDVSVES
TAEATVCTVTLEKMSAGLGFSLEGGKGS LHGDKPLTINRIFKGAASEQSETVQPGDEILQLGGTAMQGLTRFEAW
NIIKALPDGPVTIVIRRKSLQSKETTAAGDS

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FIGURE 844

TGCTTAAAAAACACAACAGGATTTTCGAAGAATCCTTTCTTAGAAAAACAAACAAAAAACCAAACAAAAACGTA
CTTTCTCCCCACTAGTTTACACCACAGGAAGCGAGAGAGCTGCTGCCACTGCTGCTACCCACAGGAAGACACAGCA
GGGAGAAGCCCTAGTGCCCTGCGCGGTGCCAGGACCTGGTATCGGCCCCACAGACCAAGTCTCCACAGAGGGC
GAGCCAGGGGTGGAGAAGAGCCAGCCAGTGAACCAACATCCCCGATAAAACACCCACTGCTTAAGAGGCAGGCT
CGGATGGACTATAGCTTTGATACCACAGCCGAAGACCTTGGGTTAGGATTTCTGACTGCATCAAAAACCTTATTT
AGCCCCATCATGAGTGAGAACCATGGCCACATGCCTCTACAGCCCAATGCCAGCCTGAATGAAGAAGAAGGGACA
CAGGGCCACCCAGATGGGACCCACCAAAGCTGGACACCGCCAATGGCACTCCCAAAGTTTACAAGTCAGCAGAC
AGCAGCACTGTGAAGAAAGGTCCTCCTGTGGCTCCCAAGCCAGCCTGGTTTCGCCAAAGCTTGAAAGGTTTGAGG
AATCGTGCTTCAGAGCCAAGAGGGCTCCCTGATCCTGCCTTGTCCACCCAGCCAGCACCTGCTTCCAGGGAGCAC
CTAGGATCACACATCCGGGCCCTCCTCCTCCTCCTCCTCCATCAGGCAGAGAATCAGCTCCTTTGAAACCTTTGGC
TCCTCTCAACTGCCTGACAAAGGAGCCAGAGACTGAGCCTCCAGCCCTCCTCTGGGGAGGCAGCAAAACCTCTT
GGGAAGCATGAGGAAGGACGGTTTTCTGGACTCTTGGGGCGAGGGGCTGCACCCACTCTTGTGCCCCAGCAGCCT
GAGCAAGTACTGTCTCGGGGTCCCCTGCAGCCTCCGAGGCCAGAGACCCAGGTGTGTCTGAGTCCCCTCCCCCA
GGGCGGCAGCCCAATCAGAAAACCTTTCCCCCTGGCCCCGACCCGCTCCTAAGGCTGCTGTCAACACAGGCTGAG
GAATCTCAAGGCCCAGTGCTCAAGATGCCTAGCCAGCGAGCACGGAGCTTCCCCCTGACCAGGTCCCAGTCTGT
GAGACGAAGCTACTTGACGAAAAGACCAGCAAACTCTATTCTATCAGCAGCCAAGTGTCTATCGGCTGTCTAGAAA
TCCTTGCTGTGCCTTCCATCTTCTATCTCCTGTGCCAGACTCCCTGCATCCCCAAGGCAGGGGCATCTCCAACA
TCATCATCCAACGAAGACTCAGCTGCAAATGGTTCTGCTGAAACATCTGCCTTGGACACGGGGTTCTCGCTCAAC
CTTTCAGAGCTGAGAGAATATACAGAGGGTCTCACGGAAGCCAAGGAAGACGATGATGGGGACCACAGTTCCCTT
CAGTCTGGTCAGTCCGTTATCTCCCTGCTGAGCTCAGAAGAATTAAAAAACTCATCGAGGAGGTGAAGGTTCTG
GATGAAGCAACATTAAAGCAATTAGACGGCATCCATGTCAACCATCTTACACAAGGAGGAAGGTGCTGGTCTTGGG
TTCAGCTTGGCAGGAGGAGCAGATCTAGAAAAACAAGGTGATTACGGTTCACAGAGTGTTTTCCAAATGGGCTGGCC
TCCCAGGAAGGGACTATTGAGAAGGGCAATGAGGTTCTTTCCATCAACGGCAAGTCTCTCAAGGGGACCACGCAC
CATGATGCCTTGGCCATCCTCCGCCAAGCTCGAGAGCCCAGGCAAGCTGTGATTGTCAAGGAAGCTGACTCCA
GAGGCCATGCCCCGACCTCAACTCCTCCACTGACTCTGCAGCCTCAGCCTCTGCAGCCAGTGATGTTTCTGTAGAA
TCTACAGCAGAGGCCACAGTCTGCACGGTGACACTGGAGAAGATGTGCGGCAGGGCTGGGCTTCAGCCTGGAAGGA
GGGAAGGGCTCCCTACACGGAGACAAGCCTCTCACCATTAAACAGGATTTTCAAAGGAGCAGCCTCAGAACAAAGT
GAGACAGTCCAGCCTGGAGATGAAATCTTGCAGCTGGGTGGCACTGCCATGCAGGGCCTCACACGGTTTGAAGCC
TGGAACATCATCAAGGCACTGCCTGATGGACCTGTCAGATTGTCTATCAGGAGAAAAAGCCTCCAGTCCAAGGAA
ACCACAGCTGCTGGAGACTCCTAGGCAGGACATGCTGAAGCCAAAGCCAATAACACACAGCTAACACACAGCTCC
CATAACCGCTGATTCTCAGGGTCTCTGCTGCCGCCCCACCCAGATGGGGGAAAGCACAGGTGGGCTTCCCAGTGG
CTGCTGCCCAGGCCACAGCCTTCTAGGACGCCACCCAGCAAAAGGTTGTTTCTAAATAAGGGCAGAGTCACACT
GGGGCAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGCTTAATGATAATATTGTGGTGCCACAAATAAAATG
GATTTATTAGAATTCCATATGACATTCATGCCTGGCTTCGCAAAATGTTTCAAGTACTGTAAGTGTGTCTATGATT
CACCCCCAAACAGTGACATTTATTTTCTCATGAATCTGCAATGTGGGCAGAGATTGGAATGGGCAGCTCATCTC
TGTCCCACTTGGCATCAGCTGGCGTCATGCAAAGTCATGCAAAGGCTGGGACCACCTGAGATCATTCACTCATAC
ATCTGGCCGTTGATGTTGGCTGGGAACCTCACCTGGGGCTGCTGGCCTGAATGCTTATAGGTGGCCTCTCCTTGTG
GCCTGGGCTCCTCACAACATGGTGTCTGGATTCCCAGGATGAGCATCCAGGATCGCAAGAGCCACGTAGAAGCT
GCATCTTGTTTATACCTTTGCCTTGGAGTTGCATGGCATCACCTCCACCATACTCCATCAGTTAGAGCTGACAC
AAACCTGCCTGGGTTTAAAGGGGAGAGGAAATATTGCTGGGGTCATTTATGAAAAATACAGTTTGTACATGAAC
ATTTGCAAAATTGTTTTTGGTTGGATTGGAGAAGTAATCTAGGGAAGGGTGGTGGAGCCAGTAAATAGAGGAGT
ACAGGTGAAGCACCAAGCTCAAAGCGTGGACAGGTGTGCCGACAGAAGGAACCAGCGTGTATATGAGGGTATCAA
ATAAAATTGCTACTACTTACCTACC

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FIGURE 845

MDYSFDTTAEDPWVRISDCIKNLFSPIMSENHGHMPLQPNASLNEEEGTQGHDPGTPPKLDTANGTPKVYKSADS
STVKKGPPVAPKPAWFRQSLKGLRNRASEPRGLPDPALSTQPAPASREHLGSHIRASSSSSSIRQRISSEFETFGS
SQLPDKGAQRLSLQPSSGEAAKPLGKHEEGRFSGLLGRGAAPTLVPQQPEQVLSSGSPAASEARDPGVSESPPPG
FQPNQKTFPPGPDPLLRLSTQAEESQGPVLKMP SQRARSFPLTRSQSCETKLLDEKTSKLYSISSQVSSAVMKS
PSSISCAQTPCIPKAGASPTSSSNEDSAANGSAETSALDTGFSNLSELREYTEGLTEAKEDDDGDHSSLQ
SLLSSEELKKLIEEVKVLDEATLKQLDGIHVTLHKEEGAGLGFSLAGGADLENKVITVHRVFPNGLAS
IQKNEVLSINGKSLKGTTHDALAILRQAREPRQAVIVTRKLTPEAMPDLNSSTD SAASAASDVSVES
TAEATVCTVTLEKMSAGLGFSLEGGKSLHGDKPLTINRIFKGAASEQSETVQPGDEILQLGGTAMQGLTRFEAW
ALPDGPVTIVIRRKSLQSKETTAAGDS

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FIGURE 846

AAGCAGTGGTAACAACGCAGAGTACGCGGGAAGCAGTGGTAACAACGCAGAGTACGCGGGAAGCAGTGGTAACAA
CGCAGAGTACGCGGGAAGCAGTGGTAACAACGCAGAGTACGCGGGAAGCAGTGGTAACAACGCAGAGTACGCGGG
GCCAGCGGAAGTGGCTCCTGTAAGGCAGCAAGGTAGCGTGGCCGGCGCCGAGCTGGGGTTGTGTCCCTGCTGGG
CTGCCGTTCCAGCTGGACTGCCGCCATGGAACTCAGCGCCGAATACCTCCGCGAGAAGCTGCAGCGGGACCTGGA
GGCGGAGCATGTGGAGGTGGAGGACACGACCCTCAACCGTTGCTCCTGTAGCTTCCGAGTCCTGGTGGTGTCTGGC
CAAGTTCGAGGGGAAACCGCTGCTTCAGAGACACAGGCTGGTGAACGCGTGCCTAGCAGAAGAGCTCCCGCACAT
CCATGCCTTTGAACAGAAAACCGTGACCCAGACCAGTGGGCACGTGAGCGACAGAAATGAGGGACTGGGATCTG
CACAGCCATTAAATTATAAATCTGGACG

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FIGURE 847

MEI,SAEYLRKQLQDLEAEHVEEDTTLNRCSCSFRVLVVS AKFEGKPLLQRHRLVNACLA EELPHIHAFEQKTL
TPDQWARERQK

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FIGURE 848

ACATACTCCACCTTCAAAAAGTACATCAATATTATATCATTAAAGGAAATAGTAACCTTCTCTTCTCCAATATGCA
TGACATTTTTGGACAATGCAATTGTGGCACTGGCACTTATTTTCAGTGAAGAAAACTTTGTGGTTCTATGGCATT
CATCATTTGACAAATGCAAGCATCTTCCCTTATCAATCAGCTCCTATTGAACCTACTAGCACTGACTGTGGAATCC
TTAAGGGCCCATTACATTTCTGAAGAAGAAAGCTAAGATGAAGGACATGCCACTCCGAATTCATGTGCTACTTGG
CCTAGCTATCACTACACTAGTACAAGCTGTAGATAAAAAAGTGGATTGTCCACGGTTATGTACGTGTGAAATCAG
GCCTTGGTTTACACCCAGATCCATTTATATGGAAGCATCTACAGTGGATTGTAATGATTTAGGTCTTTTAACTTT
CCCAGCCAGATTGCCAGCTAACACACAGATTCTTCTCCTACAGACTAACAATATTGCAAAAATTGAATACTCCAC
AGACTTTCCAGTAAACCTTACTGGCCTGGATTATCTCAAACAATTTATCTTCAGTCAACCAATATTAATGTAA
AAAGATGCCTCAGCTCCTTTCTGTGTACCTAGAGGAAAACAACTTACTGAACTGCCTGAAAAATGTCTGTCCGA
ACTGAGCAACTTACAAGAACTCTATATTAATCACAACCTTGCTTTCTACAATTTACCTGGAGCCTTTATTGGCCT
ACATAATCTTCTTCGACTTCATCTCAATTCAAATAGATTGCAGATGATCAACAGTAAGTGGTTTGATGCTCTTCC
AAATCTAGAGATTCTGATGATTGGGGAAAATCCAATTATCAGAATCAAAGACATGAACCTTAAGCCTCTTATCAA
TCTTCGCAGCCTGGTTATAGCTGGTATAAACCTCACAGAAATACCAGATAACGCCTTGGTTGGACTGGAAAACTT
AGAAAGCATCTCTTTTTACGATAACAGGCTTATTAAAGTACCCCATGTTGCTCTTCAAAAAGTTGTAAATCTCAA
ATTTTTGGATCTAAATAAAAAATCCTATTAATAGAATACGAAGGGGTGATTTTAGCAATATGCTACACTTAAAGA
GTTGGGGATAAATAATATGCCTGAGCTGATTTCCATCGATAGTCTTGCTGTGGATAACCTGCCAGATTTAAGAAA
AATAGAAGCTACTAACAACCTTAGATTGTCTTACATTCACCCCAATGCATTTTTCAGACTCCCCAAGCTGGAATC
ACTCATGCTGAACAGCAATGCTCTCAGTGCCTGTACCATGGTACCATTGAGTCTCTGCCAAACCTCAAGGAAAT
CAGCATACACAGTAACCCCATCAGGTGTGACTGTGTTCATCCGTTGGATGAACATGAACAAAACCAACATTCGATT
CATGGAGCCAGATTCAGTGTGCTGCTGGACCCACCTGAATTCGAAGGTCAGAATGTTCCGGCAAGTGCATTTTCAG
GGACATGATGGAATTTGCTCTCCCTCTTATAGCTCCTGAGAGCTTTCTCTTAATCTAAATGTAGAAGCTGGGAG
CTATGTTTCCCTTTCAGTGTAGAGCTACTGCAGAACACAGCCTGAAATCTACTGGATAACACCTTCTGGTCAAAA
ACTCTTGCTTAATACCCTGACAGACAAGTTCTATGTCCATTCTGAGGGGAACACTAGATATAAATGGCGTAACTCC
CAAAGAAGGGGGTTTATATACTTGTATAGCAACTAACCTAGTTGGCGCTGACTTGAAGTCTGTTATGATCAAAGT
GGATGGATCTTTTCCACAAGATAACAATGGCTCTTTGAATATTAATAAAGAGATATTCAGGCCAATTCAGTTTT
GGTGTCTTGAAAGCAAGTTCTAAAATTCTCAAATCTAGTGTTAAATGGACAGCCTTTGTCAAGACTGAAAATTC
TCATGCTGCGCAAAGTGCTCGAATACCATCTGATGTCAAGGTATATAATCTTACTCATCTGAATCCATCAACTGA
GTATAAAATTTGTATTGATATTCCCACCATCTATCAGAAAAACAGAAAAAATGTGTAAATGTCACCACCAAAGG
TTTGCACCTGATCAAAAAGAGTATGAAAAGAATAATACCACAACACTTATGGCCTGTCTTGGAGGCCTTCTGGG
GATTATTGGTGTGATATGTCTTATCAGCTGCCTCTCTCCAGAAATGAACCTGTGATGGTGGACACAGCTATGTGAG
GAATTACTTACAGAAACCAACCTTTGCATTAGGTGAGCTTTATCCTCCTCTGATAAATCTCTGGGAAGCAGGAAA
AGAAAAAGTACATCACTGAAAGTAAAAGCAACTGTTATAGGTTTACCAACAAATATGTCTTAAAAACCAACCAAG
GAAACCTACTCCAAAAATGAACAAAAAAGCGAAAGACTGCAGTTGTGCTAAAAACAAAACAAAACAA
ACAAACAAACAAAAAGTAAAAAAGATTACTTTCGAGAGAGAAGTTTAAGCTTCACCAATGCTGCTCCTGACCA
ATGGAAATATGTACAACCTTCAGCATTTTAAGTAACTGGCTTCAAGGGGTACTGTGGCAACCAATAAAATAACTC
CATTTTCTAAAACCTTTCATGTAACCTTTTATGTCTGGACTACAGTTCAAGTGGACAAAAACATTTCTGTATTTTT
TTAAGTAAATAAGAGTAGTTGAACTGAGCAATACCTCCTCCTGTGTTGTATTACACATATTAGCCACGAGTTTT
GCAGTGACCAGATAAACTTGAATTGACACGTGGTGTAAATAAATGGACAAATCTGTAGAGTAGACACAGTGAGT
ATGTGGACCTCTTTTATAAGGAAAAATACATTTTGGATTAAATCAATTGCTTCTGTCTTGTGTTTGTCTAAAT
AAAGAATAATTTCTGGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 849

MKDMPLRIHVLLGLAITTLVQAVDKKVDCPRLCTCEIRPWFTPRSIYMEASTVDCNDLGLLTFFPARLPANTQILL
LQTNNAKIEYSTDFPVNLTGLDLSQNNLSSVTNINVKKMPQLLSVYLEENKLTPEKCLSELSNLQELYINHN
LLSTISPGAFIGLHNLLRLHLNSNRLQMINSKWFDALPNLEILMIGENPIIRIKDMNFKPLINLRSLVIAGINLT
EIPDNALVGLENLESISFYDNRLIKVPHVALQKVNLKFLDLNKNPINRIRRGDFSNNLHLKELGINNMPELISI
DSLAVDNLPDLRKIEATNNPRLSYIHPNAFFRLPKLESLMLNSNALSALYHGTIESLPNLKEISIHSPNIRCDCV
IRWMNMNKTNIRFMEPDSLFCVDPPEFQGNVRQVHFRDMMEICLPLIAPESFPSNLNVEAGSYVSFHCRTAEP
QPEIYWITPSGQKLLPNTLTDKIFYVHSEGTLDINGVTPKEGGLYTCIATNLVGADLKSVMIKVDGSGFPQDNNGSL
NIKIRDIQANSVLVSWKASSKILKSSVKWTAFFVKTENSHAAQSARIPSDVKVYNLTHLNPSTEYKICIDIPTIYQ
KNRKKCVNVTTKGLHPDQKEYEKNNTTTLMACLGGLLGIIGVICLISCLSPENCDGGHSYVRNYLQKPTFALGE
LYPPLINLWEAGKEKSTSLKVKATVIGLPTNMS

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FIGURE 850

GCCACTTCTTCTGGGCCCACGAGGCAGCTGTCCCATGCTCTGCTGAGCACGGTGGTGCCATGCCTCTGCAACTCC
TCCTGTTGCTGATCCTACTGGGCCCTGGCAACAGCTTGCAGCTGTGGGACACCTGGGCAGATGAAGCCGAGAAAG
CCTTGGGTCCCCTGCTTGCCCGGGACCGGAGACAGGCCACCGAATATGAGTACCTAGATTATGATTTCTCTGCCAG
AAACGGAGCCTCCAGAAATGCTGAGGAACAGCACTGACACCACTCCTCTGACTGGGCCTGGAACCCCTGAGTCTA
CCACTGTGGAGCCTGCTGCAAGGCGTTCTACTGGCCTGGATGCAGGAGGGGCAGTCACAGAGCTGACCACGGAGC
TGGCCAACATGGGGAACCTGTCCACGGATTACAGCAGCTATGGAGATACAGACCACTCAACCAGCAGCCACGGAGG
CACAGACCACTCCACTGGCAGCCACAGAGGCACAGACAACCTCGACTGACGGCCACGGAGGCACAGACCACTCCAC
TGGCAGCCACAGAGGCACAGACCACTCCACCAGCAGCCACGGAAGCACAGACCACTCAACCCACAGGCCTGGAGG
CACAGACCACTGCACCAGCAGCCATGGAGGCACAGACCACTGCACCAGCAGCCATGGAAGCACAGACCACTCCAC
CAGCAGCCATGGAGGCACAGACCACTCAAACCACAGCCATGGAGGCACAGACCACTGCACCAGAAGCCACGGAGG
CACAGACCACTCAACCCACAGCCACGGAGGCACAGACCACTCCACTGGCAGCCATGGAGGCCCTGTCCACAGAAC
CCAGTGCCACAGAGGCCCTGTCCATGGAACCTACTACCAAAGAGGTCTGTTTCATACCCTTTTCTGTGTCTCTG
TTACTCACAAGGGCATTCCCATGGCAGCCAGCAATTTGTCCGTCAACTACCCAGTGGGGGGCCCCAGACCACATCT
CTGTGAAGCAGTGCCTGCTGGCCATCCTAATCTTGGCGCTGGTGGCCACTATCTTCTTCGTGTGCACTGTGGTG
TGGCGGTCCGCCTCTCCCGCAAGGGCCACATGTACCCCGTGCCTAATTACTCCCCACCGAGATGGTCTGCATCT
CATCCCTGTTGCCTGATGGGGGTGAGGGGCCCTCTGCCACAGCCAATGGGGGCCTGTCCAAGGCCAAGAGCCCGG
GCCTGACGCCAGAGCCCAGGGAGGACCGTGAGGGGGATGACCTCACCTGCACAGCTTCCTCCCTTAGCTCACTC
TGCCATCTGTTTTGGCAAGACCCACCTCCACGGGCTCTCCTGGGCCACCCCTGAGTGCCAGACCCCAATCCAC
AGCTCTGGGCTTCCTCGGAGACCCCTGGGGATGGGGATCTTCAGGGAAGGAACCTTGGCCACCCAAACAGGACAA
GAGCAGCCTGGGGCCAAGCAGACGGGCAAGTGGAGCCACCTCTTCTCCCTCCGCGGATGAAGCCCAGCCACAT
TTCAGCCGAGGTCCAAGGCAGGAGGCCATTTACTTGAGACAGATTCTCTCCTTTTTCTGTCCCCATCTTCTCT
GGGTCCCTCTAACATCTCCCATGGCTCTCCCCGCTTCTCCTGGTCACTGGAGTCTCCTCCCCATGTACCCAAGGA
AGATGGAGCTCCCCATCCACACGCACTGCACTGCCATTGTCTTTTGGTTGCCATGGTCACCAAACAGGAAGTG
GACATTCTAAGGGAGGAGTACTGAAGAGTGACGGACTTCTGAGGCTGTTTCTGTGCTCCTCTGACTTGGGGCA
GCTTGGGTCTTCTTGGGCACCTCTCTGGGAAAACCCAGGGTGAGGTTTCAAGCTGTGAGGGCTGGGATGGGTTTCG
TGGGCCCAAAGGGCAGACCTTTCTTTGGGACTGTGTGGACCAAGGAGCTTCCATCTAGTGACAAGTGACCCCCAG
CTATCGCCTCTTGCTTCCCTGTGGCCACTTTCAGGGTGGACTCTGTCTTGTTCCTGCTGAGTATCCCAACTGC
AGGTCCAGTGCAGGCA

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FIGURE 851

MF LQLLLLLLILLGPGNSLQLWDTWADEAEKALGP LLARDRRQATEY EYLDYDFLPETEPPEMLRNSTD TTPLTGP
GTPESTTVEPAARRSTGLDAGGAVTELTTEL ANMGNLSTDSAA MEIQTTQPAATEAQTTPLAATEAQTTRLTATE
AQTTPLAATEAQTTPPAATEAQTTQPTGLEAQTTAPAAMEAQTTAPAAMEAQTTPPAAMEAQTTQT TAMEAQTTA
PEATEAQTTQPTATEAQTTPLAAMEALSTEPSATEALSMEPTTKRGLFIPFSVSSVTHKGIPMAASNLSVNYPVG
HISVKQCLLAILILALVATIFFVCTVVLAVRLSRKGHMYPV RNYSPTMVCISSLLPDGGEGPSATANGGLS
PGLTPEPREDREGDDTLHSFLP

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FIGURE 852

GGACGTCGAGGCATTACAATCGCGAAACCAAGCCATAGCATGAAACAGCGAGCTTGCAGCCTCACCGACGAGTCT
CAACTAAAAGGGACTCCCGGAGCTAGGGGTGGGGACTCGGCCTCACACAGTGAGTGCCGGCTATTGGACTTTTGT
CCAGTGACAGCTGAGACAACAAGGACCACGGGAGGAGGTGTAGGAGAGAAGCGCCGCGAACAGCGATCGCCCAGC
ACCAAGTCCGCTTCCAGGCTTTTCGGTTTCTTTGCCTCCATCTTGGGTGCGCCTTCCCGGCGTCTAGGGGAGCGAA
GGCTGAGGTGGCAGCGGCAGGAGAGTCCGGCCGCGACAGGACGAACTCCCCACTGGAAAGGATTCTGAAAGAAA
TGAAGTCAGCCCTCAGAAATGAAGTTGACTGCCTGCTGGCTTTCTGTGTTGACTGGCCCGGAGCTGTACTGCAAGA
CCCTTGTGAGCTTCCCTAGTCTAAGAGTAGGATGCTGCTGAAGTCATCCATCAGGTTGAAGAAGCACTTGATAC
AGATGAGAAGGAGATGCTGCTCTTTTGTGCCGGGATGTTGCTATAGATGTGGTTCCACCTAATGTCAGGGACCT
TCTGGATATTTTACGGGAAAGAGGTAAGCTGTCTGTCGGGACTTGGCTGAAGTCTCTACAGAGTGAGGCGATT
TGACCTGCTCAAACGTATCTTGAAGATGGACAGAAAAGCTGTGGAGACCCACCTGCTCAGGAACCCCTCACCTTGT
TTCGGACTATAGAGTGCTGATGGCAGAGATTGGTGAGGATTTGGATAAATCTGATGTGTCTCATTATTTTCTT
CATGAAGGATTACATGGGCCGAGGCAAGATAAGCAAGGAGAAGAGTTTCTTGGACCTTGTGGTTGAGTTGGAGAA
ACTAAATTTGGTTGCCCCAGATCAACTGGATTTATTAGAAAAATGCCTAAAGAACATCCACAGAATAGACCTGAA
GACAAAAATCCAGAAGTACAAGCAGTCTGTTCAAGGAGCAGGGACAAGTTACAGGAATGTTCTCCAAGCAGCAAT
CCAAAAGAGTCTCAAGGATCCTTCAAATAACTTCAGGCTCCATAATGGGAGAAGTAAAGAACAAGACTTAAGGA
ACAGCTTGGCGCTCAACAAGAACCAGTGAAGAAATCCATTTCAGGAATCAGAAGCTTTTTTGCCTCAGAGCATAAC
TGAAGAGAGATACAAGATGAAGAGCAAGCCCCTAGGAATCTGCCTGATAATCGATTGCATTGGCAATGAGACAGA
GCTTCTTCGAGACACCTTCACTTCCCTGGGCTATGAAGTCCAGAAATTCTTGCATCTCAGTATGCATGGTATATC
CCAGATTCTTGGCCAATTTGCCTGTATGCCCGAGCACCGAGACTACGACAGCTTTGTGTGTGTCTGGTGAGCCG
AGGAGGCTCCCAGAGTGTGTATGGTGTGGATCAGACTCACTCAGGGCTCCCCCTGCATCACATCAGGAGGATGTT
CATGGGAGATTTCATGCCCTTATCTAGCAGGGAAGCCAAAGATGTTTTTTATTCAGAACTATGTGGTGTTCAGAGGG
CCAGCTGGAGAACAGCAGCCTCTTGGAGGTGGATGGGCCAGCGATGAAGAATGTGGAATTCAGGCTCAGAAGCG
AGGGCTGTGCACAGTTCACCGAGAAGCTGACTTCTTCTGGAGCCTGTGTACTGCGGACATGTCCCTGCTGGAGCA
GTCTCACAGCTCACCGTCCCTGTACCTGCAGTGCCTCTCCCAGAACTGAGACAAGAAAGAAAACGCCCCACTCCT
GGATCTTCACATTGAAGTCAATGGCTACATGTATGATTGGAACAGCAGAGTTTCTGCCAAGGAGAAATATTATGT
CTGGCTGCAGCACACTCTGAGAAAGAACTTATCCTCTCCTACACATAAGAAACCAAAGGCTGGGCGTAGTGGC
TCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGAGGGCAGATCACTTCAGGTGAGGAGTTCGAGACCAGCCT
GGCCAACATGGTAAACGCTGTCCCTAGTAAAAATGCAAAAATTAGCTGGGTGTGGGTGTGGGTACCTGTGTTCCT
AGTTACTTGGGAGGCTGAGGTGGGAGGATCTTTTGAACCCAGGAGTTCAGGGTCATAGCATGCTGTGATTGTGCC
TACGAATAGCCACTGCATACCAACCTGGGCAATATAGCAAGATCCCATCTCTTTAAAAAAAAAAAAAA

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FIGURE 853

MSAEVIHQVEEALDTDEKEMLLFLCRDVAIDVPPNVRDLLDILRERGKLSVGDLAELLYRVRRFDLLKRILKMD
RKAVETHLLRNPHLVSDYRVLM AEIGEDLDKSDVSSLIFLMKDYMGRGKISKEKSFLDLVVELEKLNLVAPDQLD
LLEKCLKNIHRIDLKTKIQKYKQSVQGAGTSYRNVLQAAIQKSLKDP SNNFRLHNGRSKEQRLKEQLGAQQEPVK
KSIQESEAFLPQSIPEERYKMKSKPLGICLI IDCIGNETELLRDTFTSLGYEVQKFLHLSMHGISQILGQFACMP
EHRDYDSFVCVLVSRGGSQSVYGVDQTHSGLPLHHIRRMFMGDSCPYLAGKPKMFFIQNYVVSEGQLENSLLEV
DGPAMKNVEFKAQKRG LCTVHREADFFWSLCTADMSLLEQSHSSPSLYLQCLSQKLRQERKRPLLDLHIELNGYM
YDWNSRVSAKEKYYVWLQHTLRKKLILSYT

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FIGURE 854

GGCACGAGGCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAGATGGTGGACTACAGCGTGTGGGACCA
CATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAGTCTCTTCCGCTGGCGGCATCA
GGCCCGGGTGGAAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAACCTGGACAGGGGCTGCCGCGAGTGCAAGCG
CAAGGTGGCCGAGTGCCAGAGGAACTGAAGGAGCTGGAGGTGGCCGAGGGCGGCAAGGCAGAGCTGGAGCGCCT
GCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAGCTGGAGGAGATGCGCAAGAAGGA
GAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAGACGGCTTCAGCAAGAGCATGGTAAATACCAAGCCCGA
GAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGTGGAAAAATACGAGAAACAGAT
CAAGCACTTTGGCATGCTTCGCCGCTGGGATGACAGCCAAAAGTACCTGTCAGACAACGTCCACCTGGTGTGCGA
GGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACCTAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGT
GGCCCACCAGACAATCGTCATGCAATTTATCCTGGAGCTGGCCAAGAGCCTAAAGGTGGACCCCCGGGCCTGCTT
CCGGCAGTTCTTCACTAAGATTAAGACAGCCGATCGCCAGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTT
CAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCGAGAAGGCCATGAAGGAGTACGAGGAGGAGGAGCGCAA
GAAGCGGCTCGGCCCCGGCGGCCTGGACCCCGTCGAGGTCTACGAGTCCCTCCCTGAGGAACTCCAGAAGTGCTT
CGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCAGCAAGATGGACCCACCGACGCAAAGTACCACATGCA
GCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTAAGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCC
TGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCGATGAGAAGGATGTCAGTGTGTGACCTGCCCCAGCTAC
CACCGCCACCTGCTTCCAGGCCCCCTATGTGCCCCTTTTTCAGAAAACAGATAGATGCCATCTCGCCCGCTCCTGAC
TTCTCTACTTGCGCTGCTCGGCCCAGCTGGGGGGCCCGCCAGCCCTCCCTGGGCTCTCCACTGTCTCCACTC
TCCAGCGCCATTCAAGTCTCTGCTTTGAGTCAAGGGGCTTCACTGCCTGCAGCCCCCATCAGCATTATGCCAA
AGGCCCCGGGGTCCGGGGAAGGGCAGAGGTCACCAGGCTGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAA
GGGCCGGCTCTCGTCACTGGGCTCTGTTTTCACTGTTTCGTCTGCTGTGTCTTCTATTGGCAAACAGCAAT
GATCTTCCAATAAAAAGATTTTCAGATGCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 855

MVDYSVWDHIEVSDDDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRGCRECKRKVAECQRKLKELEVAE
GGKAELERLQAEAQQLRKEERSWEQKLEEMRKKEKSMPWNVDTLSDGFSKSMVNTKPEKTEEDSEEVREQKHK
FVEKYEQIKHFGMLRRWDDSQKYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQTIVMQFILELAKS
LKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVGRAKLRIEKAMKEYEEEEERKKRLGPGGLDPVEVYES
LPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCDISGLWVPNSKASEAKEGEEAGPGDPLLEAVPKTGDEKD
VSV

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FIGURE 856

TTTTTGCAACCAACATGGTTCTATTAAAACTCTCTTGACTATGGCATTCAAGGACAGCAATACAATCTTTTTT
TTTTTTAACAAGCAACTAATATAAAAAATCTGCAAATGCCATATATTCATATCTAGGCTATTCTTCTCATATAGG
CATGTCATTAGATAGACTTTCTTTCTATTCTTTCCTGAGGTATTTTTTTGTGGTTTACTTTTATTGTACTGCTGG
ATGCATTATTTTTGATCATCCTTTCCTAAAAATGATTTAAAGACCTGCAAATAATTTTATTGCATAGGACACTATT
GATGACACATAGAATGGGAGCTGCAAGTATGTGGCATTGGAACAAGCCTTACAAATATTGCATTTTAAGAATACA
CACATTTTTTACAGTTTGTCTCTTTTAAAAAATTTGAAGTTATAGC

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FIGURE 857A

CCTACTCTATTTCAGATATTCTCCAGATTCTTAAAGATTAGAGATCATTTCTCATTCTCCTAGGAGTACTCACTTC
AGGAAGCAACCAGATAAAAGAGAGGTGCAACGGAAGCCAGAACATTCTCTCTGGAAATTCAACCTGTTTCGCAGT
TTCTCGAGGAATCAGCATTTCAGTCAATCCGGGCCGGGAGCAGTCATCTGTGGTGAGGCTGATTGGCTGGGCAGGA
ACAGCGCCGGGGCGTGGGCTGAGCACAGCGCTTCGCTCTCTTTGCCACAGGAAGCCTGAGCTCATTTCGAGTAGCG
CTCTTCCAAGCTCAAAGAAGCAGAGGCCGCTGTTCTGTTTCTTTAGGTCTTTCCACTAAAGTCGGAGTATCTTC
CAAGATTTACGCTCTTGGTGGCCGTTCCAAGGAGCGCGAGGTCGGGATCGATCTTGAAGGGGACCGCAATGG
AGCAAAGAAGAAGAACTTTTTTAAACTGAACAATAAAAGTGAAAAAGATAAGAAGGAAAAGAAACCAACTGT
AGTGTATTTTCAATGTTTCGCTATTCAAATTGGCTTGACAAGTTGTATATGGTGGTGGGAACCTTTGGCTGCCAT
ATCCATGGGGCTGGACTTCTCTCATGATGCTGGTGTGTTGGAGAAATGACAGATATCTTTGCAAATGCAGGAAA
TAGAAGATCTGATGTCAAACATCACTAATAGAAGTGATATCAATGATACAGGGTTCTTCATGAATCTGGAGGA
ACATGACCAGGTATGCCTATTATTACAGTGGAAATTGGTGTGGGGTGTGGTTGCTGCTTACATTTCAGGTTTC
TTGGTGCCTGGCAGCTGGAAGACAAATACACAAAATTAGAAAACAGTTTTTTTCATGCTATAATGCGACAGGA
TAGGCTGGTTTGATGTGCACGATGTTGGGGAGCTTAACACCCGACTTACAGATGATGTCTCCAAGATTAATGA
AGGAATTGGTGACAAAATTGGAATGTTCTTTTCAGTCAATGGCAACATTTTTTCACTGGGTTTATAGTAGGATTTAC
AGTGGTTGGGAAGCTAACCCCTGTGATTTTGGCCATCAGTCTGTCTTGGACTGTGAGCTGTCTGTCTGGGCAA
GTAATCTCTTCAATTTACTGATAAAGAACTCTTAGCGTATGCAAAAGCTGGAGCAGTAGCTGAAGAGGTCTTGGC
AGCAATTAGAAGTGTGATTGCATTTGGAGGACAAAAGAAAGAACTTGAAAGGTACAACAAAATTTAGAAGAAGC
TAAAAGAATTGGGATAAAGAAAGCTATTACAGCCAATATTTCTATAGGTGCTGCTTTCTGCTGATCTATGCATC
TTATGCTCTGGCCTTCTGGTATGGGACCACCTTGCTCTCAGGGGAATATTCTATTGGACAAGTACTCACTGT
ATTTTCTGTATTAATTGGGGCTTTTAGTGTGGACAGGCATCTCCAAGCATTGAAGCATTTGCAAATGCAAGAGG
AGCAGCTTATGAAATCTTCAAGATAATTGATAATAAGCCAAGTATTGACAGCTATTGCAAGAGTGGGCACAAACC
AGATAATATTAAGGGAAATTTGGAATTCAGAAATGTTCACTTCAGTTACCCATCTCGAAAAGAAGTTAAGATCTT
GAAGGGTCTGAACCTGAAGGTGCAGAGTGGGCAGACGGTGGCCCTGGTTGGAAACAGTGGCTGTGGGAAGAGCAC
AACAGTCCAGCTGATGCAGAGGCTCTATGACCCACAGAGGGGATGGTCAGTGTGATGGACAGGATATTAGGAC
CATAAATGTAAGGTTTCTACGGGAAATCATTGGTGTGGTGAGTCAGGAACCTGTATTGTTTGCCACCACGATAGC
TGAAAACATTTCGCTATGGCCGTGAAAATGTCACCATGGATGAGATTGAGAAAGCTGTCAAGGAAGCCAATGCCTA
TGACTTTATCATGAAACTGCCTCATAAATTTGACACCCTGGTTGGAGAGAGAGGGGGCCAGTTGAGTGGTGGGCA
GAAGCAGAGGATCGCCATTGCACGTGCCCCTGGTTCGCAACCCCAAGATCCTCCTGCTGGATGAGGCCACGTCAGC
CTTGGACACAGAAAGCGAAGCAGTGGTTCAGGTGGCTCTGGATAAGGCCAGAAAAGGTGCGACCACCATTGTGAT
AGCTCATCGTTTGTCTACAGTTTCGTAATGCTGACGTCATCGCTGGTTTCGATGATGGAGTCATTGTGGAGAAAGG
AAATCATGATGAACCTCATGAAAGAGAAAGGCATTTACTTCAAACCTTGTCACAATGCAGACAGCAGGAAATGAAGT
TGAATTAGAAAATGCAGCTGATGAATCCAAAAGTGAAATTGATGCCTTGGAATGTCTTCAAATGATTCAAGATC
CAGTCTAATAAGAAAAAGATCAACTCGTAGGAGTGTCCGTGGATCACAAGCCCAAGACAGAAAAGCTTAGTACCAA
AGAGGCTCTGGATGAAAGTATACCTCCAGTTTCCTTTTGGAGGATTATGAAGCTAAATTTAACTGAATGGCCTTA
TTTTGTTGTTGGTGTATTTTGTGCCATTATAAATGGAGGCCTGCAACCAGCATTGCAATAATATTTTCAAAGAT
TATAGGGGTTTTTACAAGAATTGATGATCCTGAAACAAAACGACAGAATAGTAACCTGTTTTTCACTATTGTTTCT
AGCCCTTGGAAATTATTTCTTTTATTACATTTTTTCTTTCAGGGTTTCACATTTGGCAAAGCTGGAGAGATCCTCAC
CAAGCGGCTCCGATACATGGTTTTCCGATCCATGCTCAGACAGGATGTGAGTTGGTTTGATGACCTAAAAACAC
CACTGGAGCATTGACTACCAGGCTCGCCAATGATGCTGCTCAAGTTAAAGGGCTATAGGTTCCAGGCTTGCTGT
AATTACCCAGAATATAGCAAATCTTGGGACAGGAATAATTATATCCTTCATCTATGGTTGGCAACTAACACTGTT
ACTCTTAGCAATTGTACCCATCATTGCAATAGCAGGAGTTGTTGAAATGAAAATGTTGTCTGGACAAGCACTGAA
AGATAAGAAAGAACTAGAAGGTGCTGGGAAGATCGCTACTGAAGCAATAGAAAACCTCCGAACCGTTGTTTCTTT
GACTCAGGAGCAGAAGTTTGAACATATGTATGCTCAGAGTTTGCAGGTACCATACAGAACTCTTTGAGGAAAGC
ACACATCTTTGGAATTACATTTTCTTTCACCCAGGCAATGATGTATTTTCTATGCTGGATGTTTCCGGTTTGG
AGCCTACTTGGTGGCACATAAACTCATGAGCTTTGAGGATGTTCTGTAGTATTTTCAGCTGTTGTCTTTGGTGC
CATGGCCGTGGGGCAAGTCAGTTCATTGCTCCTGACTATGCCAAAGCCAAAATATCAGCAGCCACATCATCAT
GATCATTGAAAAAACCCCTTTGATTGACAGCTACAGCACGGAAGGCCTAATGCCGAACACATTGGAAGGAAATGT
CACATTTGGTGAAGTTGTATTCAACTATCCACCCGACCGGACATCCAGTGCTTCAGGGACTGAGCCTGGAGGT

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FIGURE 857B

GAAGAAGGGCCAGACGCTGGCTCTGGTGGGCAGCAGTGGCTGTGGGAAGAGCACAGTGGTCCAGCTCCTGGAGCG
GTTCTACGACCCCTTGGCAGGGAAAGTGCTGCTTGATGGCAAAGAAATAAAGCGACTGAATGTTTCAGTGGCTCCG
AGCACACCTGGGCATCGTGTCCCAGGAGCCCATCCTGTTTGA CTGCAGCATTGCTGAGAACATTGCCTATGGAGA
CAACAGCCGGGTGGTGTACAGGAAGAGATTGTGAGGGCAGCAAAGGAGGCCAACATACATGCCTTCATCGAGTC
ACTGCCTAATAAATATAGCACTAAAGTAGGAGACAAAGGAACCTCAGCTCTCTGGTGGCCAGAAACAACGCATTGC
CATAGCTCGTGCCCTTGTTAGACAGCCTCATATTTTGCTTTTGATGAAGCCACGTCAGCTCTGGATACAGAAAG
TGAAAGGTTGTCCAAGAAGCCCTGGACAAAGCCAGAGAAGGCCGCACCTGCATTGTGATTGCTCACC GCCTGTC
CACCATCCAGAAATGCAGACTTAATAGTGGTGTTCAGAATGGCAGAGTCAAGGAGCATGGCACGCATCAGCAGCT
GCTGGCACAGAAAGGCATCTATTTTTCAATGGTCAGTGTCCAGGCTGGAACAAAGCGCCAGTGA^{ACT}CTGACTGT
ATGAGATGTTAAATACTTTTTAATATTTGTTTAGATATGACATTTATTCAAAGTTAAAAGCAAACACTTACAGAA
TTATGAAGAGGTATCTGTTTAACATTTCTCAGTCAAGTTCAGAGTCTTCAGAGACTTCGTAATTAAAGGAACAG
AGTGAGAGACATCATCAAGTGGAGAGAAATCATAGTTTAAACTGCATTATAAATTTTATAACAGAATTAAAGTAG
ATTTTAAAAGATAAAATGTGTAATTTTGTTTATATTTTCCATTTGGACTGTA^{ACT}GACTGCCTTGCTAAAAGAT
TATAGAAGTAGCAAAAAGTATTGAAATGTTTGCATAAAGTGTCTATAATAAACTAAACTTTTCATGTG

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FIGURE 858

MDLEGDRNGGAKKKNF FKLNNKSEKDKKEKKPTVSVFSMFRYSNWLDKLYMVVGTIAAIIHGAGLP LMMMLVFGEM
TDIFANAGNLEDLMSNITNRSDINDTGFFMNLEEDMTRYAYYYSGIGAGVLVAAYIQVSFWCLAAGRQIHKIRKQ
FFHAIMRQEIGWFDVHDVGEINTRLTDDVSKINEGIGDKIGMFFQSMATFFTGFIVGFTRGWKLT LVILAI SPVL
GLSAAVWAKILSSFTDKELLAYAKAGAVAEVLA AIRT VIAFGGQKKELERYNKNLEEAKRIGIKKAITANISIG
AAFLLIYASYALAFWYGTTLVLSGEYSIGQVLT VFSVLIGAFSVGQASPSIEAFANARGAAYEIFKIIDNKPSID
SYSKSGHKPDNIKGNLEFRNVHFSYPSRKEVKILKGLNLKVQSGQTVALVGNSGCGKSTTVQLMQRLYDPTGEMV
SVDGQDIRTINVRFLREIIGVVSQEPVLFATTIAENIRYGRENVMTDEIEKAVKEANAYDFIMKLPHKFDTLVGE
RGAQLSGGQKQRIAIARALVRNPKILLLDEATSALDTESEAVVQVALDKARKGRTTIVIAHRLSTVRNADV IAGF
DDGVIVEKGNHDELMKEKGIYFKLVTMQTAGNEVELENAADESKSEIDALEMSSNDSRSSLIRKRSTRRSVRGSQ
AQDRKLSTKEALDESIPPVSFWRIMKLNLTWPYFVVGVFCAIINGGLQPAFAIIFSIIIGVFTRIDDPETKRQN
SNLFSLLFLALGIISFITFFLQGFTEGKAGEILTKRLRYMVFRSMLRQDVSWFDDPKNTTGALTTRLANDAAQVK
GAIGSRLAVITQNIANLGTGIIISFIYGWQLTLLLLAIVPIIAIAGVVENMKMLSGQALKDKKELEGAGKIATEAI
ENFRTVVS LTQE QKF EHM YAQSLQVPYRNSLRKAHIFGITFSFTQAMMYFSYAGCFRFGAYLV AHKLMSFEDVLL
VFSAVVFGAMAVGQVSSFAPDYAKAKISAAHIIMIIEKTPLIDSYSTEGLMPNTLEGNVTFGEVVFNYPTRPDIP
VLQGLSLEVKKGQTLALVGSSGCGKSTVVQLLERFYDPLAGKVLLDGKEIKRLNVQWLR AHLGIVSQEPILFDCS
IAENIAYGDNSRVVSQEEIVRAAKEANI HAFIESLPNKYSTKVGDKGTQLSGGQKQRIAIARALVRQPHILLLDE
ATSALDTESEKVVQEALDKAREGRTCIVIAHRLSTIQNADLIVVFQNGRVKEHGTHQQLLAQKGIYFSMVSVQAG
TKRQ

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FIGURE 859A

TGCCGCTTCCGCGGTCACATGACTCCAGTCTAGCTCGCATTGCGCTCCCGCCGGCGAGTTCTCCCCGCGCGCCGT
TGCGAGGAGACGGCGCATGTCCGCCGCGCTTGCCCCCTCTGCAGTACCCCGCCCTCTTCTCCACCACAATGAGATC
TAAGTGCCTGCTGCGCGTGCGTACGTGAGGTCGAAAAGCGCACTGGGACGGCAGCCAGGAAACGTGTGGGCCTCT
CTGCTGCGGTCTCCGAGGGCCGACCGCTGCCGGCGCGGGTCTGTCGGGCTGACTGTGCTCTGCCTTTGACAGGA
GAGGCTGCTTCTTTGTAGAGGAAACAGCTTTGAAGTGTGGAGCGGGAAAGGAGCAGTTTCTGAGCTGCAAAAATA
GTTTCTAAACAGAGAGTTAATTGTTAAATCCAGTATGCGCCACAGGAGGAGGTCCCTTTGAAGATGGCATGAATGA
TCAGGATTTACCAAACCTGGAGTAATGAGAATGTTGATGACAGGCTCAACAATATGGATTGGGGTGCCCAACAGAA
GAAAGCAAATAGATCATCAGAAAAGAATAAGAAAAAGTTTGGTGTAGAAAGTGATAAAAAGAGTAACCAATGATAT
TTCTCCGGAGTCGTACCAGGAGTTGGAAGGCGAAGAACAAGACTCCACATACGTTCCACACAGTAGATACAT
GAGTCAGATGTCTGTCCCAGAGCAGGCAGAATTAGAGAACTGAAACAGCGGATAAACTTCAGTGATTTAGATCA
GAGAAGCATTGGAAGTGATTCCCAAGGTAGAGCAACAGCTGCTAACAACAACGTCAGCTTAGTGAAAACCGAAA
GCCCTTCAACTTTTTGCTATGCAGATTAATACTAACAAGAGCAAAGATGCATCTACAAGTCCCCCAAACAGAGA
AACGATTGGATCAGCACAGTGTAAGAGTTGTTTGCTTCTGCTTTAAGTAATGACCTCTTGCAAACTGTCAGGT
GTCTGAAGAAGATGGGAGGGGAGAACCTGCAATGGAGAGCAGCCAGATTGTAAGCAGGCTTGTTCAAATTCGCGA
TTATATTACTAAAGCTAGTTCCATGCGGGAAGATCTTGTAGAGAAAAATGAGAGATCTGCTAATGTTGAGCGCCT
TACTCATCTAATAGATCACCTTAAAGAACAGAGAAGTCATATATGAAATTTCTTAAAAAATCCTTGCCAGAGA
TCCTCAGCAGGAGCCTATGGAAGAGATAGAAAATTTGAAGAAACAACATGATTTATTAAAAAGAAATGTTACAACA
GCAGGAGCAACTAAGAGGAGCTCTACAGGGACGGCAGGCTGCACTTCTAGCTCTGCAACATAAAGCAGACGAAGC
TATTGCAGTGATGGATGATTCTGTTGTTGCAGAACTGCAGGTAGCTTATCTGGCGTCAGTATCACATCTGAAC
AAATGAAGAATTGAATGACTTAATTCAGCGTTTTTCATAATCAGCTTCGTGATTCTCAGCCTCCAGCTGTTCCAGA
CAATAGAAGACAGGCAGAAAGTCTTTCATTAAGTAGGGAGGTTTCCAGAGCAGGAAACCATCAGCTTCAGAACG
TTTACCTGATGAGAAAGTCGAACTTTTTAGCAAAATGAGAGTGCTACAGGAAAAGAAACAAAAAATGGACAAATT
GCTTGAGAACTTCATACACTTCGAGATCAGCATCTTAACAATTCATCATCCTCTCCACAAAGGAGTGTCGATCA
GAGAAGTACTTCAGCTCCCTCTGCTTGTCTAGGCTTGGCACCAGGTTGTCAATGGAGAATCCAATAGCCTCACATC
ATCTGTTCCCTTATCCTACTGCTTCTCTAGTATCTCAGAAATGAGAGTGAAAACGAAGGCCACCTCAATCCATCTGA
AAACTCCAGAAGTTAAATGAAGTTGGAAGAGATTGAATGAGCTAAGAGAATTAGTTTATTATTATGAACAAAC
GTCAGACATGATGACAGATGCTGTGAATGAAAACAGGAAAGATGAAGAACTGAAGAGTCAGAATATGATTCTGA
GCATGAAAATTCGAGCCTGTTACTAACAATTCGAAATCCACAAGTAGCTTCCACTTGGAATGAAGTAAATAGTCA
TAGTAATGCACAGTGTGTTTCTAATAATAGAGATGGGCGAACAGTTAATTCTAATTGTGAAATTAACAACAGATC
TGCTGCCAACATAAGGGCTCTAAACGTGCCTCCTTCTTTAGATTGTCGATATAATAGAGAAGGGGAACAGGAGAT
TCATGTTGCACAAGGTGAAGATGATGAGGAGGAGGAGGAAGAAGCAGAAGAGGAGGGAGTCAGTGGAGCTTCATT
ATCTAGTCACAGGAGCAGTCTGGTTGATGAGCATCCAGAAGATGCTGAATTTGAACAGAAGATCAACCGACTTAT
GGCTGCAAAACAGAACTTAGACAGTTACAAGATCTTGTGCTATGGTACAGGATGATGATGCAGCTCAAGGAGT
TATCTCTGCCAGTGCATCAAATTTGGATGATTTCTACCCAGCAGAAGAAGACACCAAGCAAAATTCAAATAACAC
TAGAGGAAATGCCAATAAAACACAGAAAGATACTGGAGTAAATGAAAAGGCAAGAGAGAAATTTTATGAGGCTAA
ACTACAGCAGCAACAGAGAGAGCTAAAACAATTGCAGGAAGAAAGAAAGAACTGATTGACATTCACGAGAAAAT
TCAAGCATTGCAAACGGCATGCCCTGACTTACAGCTGTCAGCTGCTAGTGTGGGTAAGTGTCTTACCAAAAAATA
TATGCCAGCTGTTACTTCAACCCCACTGTTAATCAACACGAGACCAAGCAAAATCTGTTTTTGAGCCTGA
AGATTCTTCAATAGTAGATAATGAGTTGTGGTCAGAAATGAGAAGACATGAAATGTTGAGGGAGGAGCTGCGACA
GAGAAGAAAGCAGCTTGAAGCTCTGATGGCTGAACATCAGAGGAGGCAAGGTCTAGCTGAACTGCATCTCCAGT
GGCTGTGTCATTGAGAAGTGATGGATCTGAGAACCTATGTACTCCTCAGCAAAGTAGAACAGAAAAACGATGGC
AACTTGGGGAGGGTCTACCCAGTGTGCACTAGATGAAGAAGGAGATGAAGACGGTTACCTTTCTGAAGGAATTGT
TCGGACAGATGAAGAGGAGGAAGAAGAGCAAGATGCCAGTTCCAATGATAACTTTTTCTGTGTGCTTCTAACAG
TGTGAATCATAACTCCTACAATCGAAAGGAACTAAAAATACGTGGAAGAAACAATTGCCCTTTTTCGGCAGATGA
AAATTATCGTCCCTTAGCCAAAGACAAGGCAACAGAATATCAGCATGCAACGGCAAGAAAACCTTCGTTGGGTGTC
AGAGCTCTCTTACGTAGAAGAGAAAGAACAATGGCAAGAACAATCCAGCTAAAGAAAACAGCTTGATTTTAGTGT
CAGTATTGTGACAGCTTTGATGCAAGACCAGCAGACTCTATCTTGTCTGCTACAACTCTTCTCACGGGTCTTAA
CAGTGTTATGCCAGCAATGTTGCATCTCCTCAAGTACACTTCATAATGCACCAGTTGAACCAGTGCTATACTCA

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FIGURE 859B

GCTAACATGGCAACAGAATAATGTTTCAGAGGTTGAAACAAATGCTAAATGAACTTATGCGCCAACGAAATCAGCA
TCCAGAAAAACCTGGAGGCAAGGAAAAGAGGCAGTAGTGCATCGCACCTCCTTCTCCAGTTTATTTTGTCTTT
CAGCTTTTCCAACACAGCCTGTAAATCTCTTCAATATACCTGGATTTACTAACTTTTCATCATTTGCACCAGGTAT
GAATTTTCAGCCCTTTATTTTCTTCTAATTTTGGAGATTTTCTCAGAATATCTCTACACCCAGTGAACAGCAGCA
ACCTTTAGCCAGAATTCCTTTTCAGGAAAAACAGAATATATGGCTTTTCCAAAACCTTTTGAAAGCAGTTCTCTAT
TGGAGCAGAGAAACCAAGGAATAAAAACTGCCTGAAGAGGAGGTGGAAAGCAGTAGGACACCATGGTTATATGA
ACAAGAAGGTGAAGTAGAGAAACCATTTATCAAGACTGGATTTTCAGTGTCTGTAGAAAAATCTACAAGTAGTAA
CCGCAAAAATCAATTAGATACAAACGGAAGAAGACGCCAGTTTGTATGAAGAATCACTGGAAAGCTTTAGCAGTAT
GCCTGATCCAGTAGATCCAACAACAGTGAATAAACATTCAAGACAAGAAAAAGCGTCTGCACAGGCCAGCCTGGC
ATCTAAAGATAAACTCCCAAGTCAAAAAGTAAGAAGAGGAATTCTACTCAGCTGAAAAGCAGAGTTAAAAACAT
CAGGTATGAAAGTGCCAGTATGTCTAGCACATGTGAACCTTGCAAAAGTAGGAACAGACATTCAGCCCAGACTGA
AGAGCCTCTTCAAGCAAAAGTATTCAGCAGAAAGAATCATGAGCAACTGGAAAAATAATAAAATGTAATAGGTC
TACAGAAATATCTTCAGAACTGGGAGTGATTTTCCATGTTTGAAGCTTTGCAGGATACTATTTATTCTGAAGT
AGCTACATTAATTTCTCAAAATGAATCTCGTCCACATTTCTTATTGAACTCTCCATGAGCTGCAGCTACTAAA
CACAGACTACTTGAGACAGAGGGCTTTATATGCATTGCAGGACATAGTATCCAGACATATTTCTGAGAGCCATGA
AAAAGGAGAAAAATGTAAAGTCAGTAAACTCTGGTACTTGGATAGCATCAAACCTCAGAACTTACTCCTAGTGAGAG
CCTTGCTACTACTGATGATGAACTTTTGGAGAAGAACTTTGAAAGAGAAACCCATAAAATAAGTGAGCAAAATGA
TGCTGATAATGCTAGTGTCTGTCTGTATCATCAAATTTTGAAGCTTTTGCACAGATGATCTAGGTAACACCGT
GATTCACCTTAGATCAAGCATTAGCCAGAATGAGAGAATATGAGCGTATGAAGACTGAGGCTGAAAGTAACTCAA
TATGAGATGCACCTGCAGGATTATTGAGGATGGAGATGGTGCTGGTGCAAGTACTACAGTTAATAATTTAGAAGA
AACTCCCGTTATTGAAAATCGTAGTTTACAACAACCTGTAAAGTGAAGTTTCTACCATCCCATGTCTTAGAATTGA
TACTCAGCAGCTGGACCGGCAAAATAAGCAATTATGAAAGAAGTCATTCCTTTTTTGAAGGAGCACATGGATGA
AGTATGCTCCTCGCAGCTTCTAACTTCAGTAAGGCGCATGGTTTTGACCCTTACCCAGCAAAATGATGAGAGCAA
AGAGTTTGTAAAGTTCTTTTATAAACAACCTTGGAAGTATATTACAGGATTCCTGGCAAAATTTGCTGGCAGAAA
ACTGAAAGACTGTGGAGAAGATCTTCTTGTAGAGATATCTGAAGTGTGTTCAATGAATTGGCTTTCTTTAAGCT
TATGCAAGATTTGGATAATAATAGTATAACTGTTTAAACAGAGATGCAAAAGGAAAATAGAAGCAACTGGAGTGAT
ACAATCTTGTGCCAAAGAGGCTAAAAGGATTCTTGAAGATCATGGCTCACCTGCTGGAGAGATTGATGATGAAGA
CAAAGACAAGGATGAACTGAAACAGTTAAGCAGACTCAAACATCTGAGGTGTATGATGGTCCCAAAAATGTAAG
ATCTGATATTTCTGATCAAGAGGAAGATGAAGAAAGTGAAGGATGTCCAGTGTCTATTAATTTGTCTAAAGCTGA
AACTCAGGCTTTAACTAATTATGGAAGTGGAGAAGATGAAAATGAGGATGAAGAAATGGAAGAATTTGAAGAAGG
CCCTGTGGATGTCCAGACTTCCCTCCAGGCTAACACTGAAGCTACTGAAGAAAATGAACATGATGAACAGGTCTCT
ACAACGTGACTTTAAAAAGACAGCAGAAAGCAAAAATGTCCATTGGAACGAGAAGCCACTAGTAAAAATGACCAA
AAATAACTGTCTGTGAAACCCAGTTACCTCAATATCTTGAAGATGAGCAACCTTTAAATAGTGCTGCCCCATAA
GGAGTCACCTCCTACTGTTGATTCAACTCAACAGCCTAACCTTTGCCGTTACGTTTACCTGAAATGGAACCCCTT
AGTGCCTAGAGTCAAAGAAGTTAAATCTGCTCAGGAAACTCTGAAAGCTCTCTGGCTGGAAGTCTCTGATACTGA
ATCTCCAGTGTTAGTGAATGACTATGAAGCAGAATCTGGTAATATAAGTCAAAGTCTGATGAAGAAGATTTTGT
AAAAGTTGAAGATTTACCACTGAACTGACAATATATTAGAGGCAGATCTAAGAAAGAAAATGGTAGAAGAAGA
ACAGAAAACCATTTATCTGGTGAAATGTGTGAAATGCAGACCGAAGAATTAGCTGGAAATCTGAGACACTAAA
AGAACCTGAAACGGTGGGAGCCCAGAGTATATGAGATGTCTTCAGAGGCTCATCTAACTCTGTCTTACATACTC
AATGCATATATGAAAACAATACTAAATAAACATCTGATCTGTATAAAAATCT

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FIGURE 860

MATGGGPFEDGMNDQDLPNWSNENVDDRLNNMDWGAQQKKANRSSEKNKKKFGVESDKRVTNDISPESSPGVGRR
RTKTPHTFPHSRYMSQMSVPEQAELEKLRINFSLDQRSIGSDSQGRATAANNKRQISENRKPFNFLPMQINT
NKS KDASTSPNRETIGSAQCCKELFASALSNDLLQNCQVSEEDGRGEPAMESSQIVSRLVQIRDYITKASSMRED
LVEKNERSANVERLTHLIDHLKEQEKSYMKFLKKILARDPQQEPMEEIENLKKQHDLLKRMLOQQEQRLGALQGR
QAALLALQHKADEAIAVMDDSVVAETAGSLSGV SITSELNEELNDLIQRFHNQLRDSQPPAVPDNRRQAESLSLT
REVSQSRKPSASERLPDEKVELFSKMRVLQEKKQKMDKLLGELHTLRDQHLNNSSSSPQRSVDQSTAPSACLG
LAPVVNGESNSLTSSVPYPTASLVSQNESENEGHLNPSEKLQKLNVRKRLNELRELHVHYEQTSDDMMTDAVNEN
RKDEETEESEYDSEHENSEPVTNIRNPQVASTWNEVNSHSAQCVSNNRDGRITVNSNCEINNRSANIRALNVPP
SLDCRYNREGEQEIHVAQGEDDEEEEEEAEEEGVSGASLSSHRSSLVDEHPEDAEEFEQKINRLMAAKQKLRQLQD
LVAMVQDDDAQGVISASASNLDGFYPAEEDTKQNSNNTRGNANKTQKDTGVNEKAREKFYEAKLQQQQRELKQL
QEERKKLIDIHEKIQALQTACPDQLLSAASVGNCP TKKYP AVTSTPTVNQHETSTSKSVFEPEDSSIVDNELWS
EMRRHEMLREELRQRRKQLEALMAEHQRRQGLAETASPVAVSLRSDGSENLC TPQQSRTEKTMATWGGSTQCALD
EEGEDDGYLSEGIVRTDEEEEEEQDASSNDNF SVCP SNSVNHNSYNRKETKNTWKNNCPFSADENYRPLAKTRQQ
NISMQRQENLRWVSELSYVEEKEQWQEQIQLKKQLDFSVSICQTLMQDQQTLSCLLQTLTLPYVMP SNVASPQ
VHFIMHQLNQCYTQLTWQQNNVQRLKQMLNELMRQRNQHPKPGKGERGSSASHPPSPSLFCPFSFPTQPVNLFN
IPGFTNFSSFAPGMNFSPLFPSNFGDFSQNI STPSEQQOPLARILSGKTEYMAFPKPFESSSSIGAEPKRNKKLP
EEEVSSRTPWLYEQEVEKPFIKTGFSVSVEKSTSSNRKNQLDTNGRRRQFDEESLESFSSMPDPVDPTTVTK
TFKTRKASQAASLASKDKTPKSKSKKRNSTQLKSRVKNI RYESASMSSTCEPCKSRNRHSAQTEEPLOAKVFSRK
NHEQLEKIIKCNRSTEISSETGSDFSMFEALQDTIYSEVATLISQNESRPHFLIELFHQLLNTDYLQRALYA
LQDIVSRHISESHEKGENVKS VNSGTWIASNSELT PSES LATDDETFEKNFERETHKISEQNDADNASVLSVSS
NFEPFATDDLGN TVIHLDQALARMREYERMKTEAESNSNMRC TCRIEDGDGAGAGTTVNNLEETPVNIENRSSQ
PVSEVSTIPCPRIDTQQLDRQIKAIMKEVIPFLKEHMDEVCSQLLTSVRRMVLTLTQONDESKEFVKFFHKQLG
SILQDSLAKFAGRKLKDCGEDLLVEISEVLFNELAFFKLMQDLNNSITVKQRCKRKIEATGVIQSCAKEAKRIL
EDHGSPAGEIDDEDKDKDETETVKQTQTSEVYDGPKNVRS DISDQEEDEESEGC PVSINLSKAETQALTNYGSGE
DENEDEEMEEFEEGPVDVQTS LQANTEATEENEHDEQVLQRDFKKTAESKNVHWNEKPLVKMTKNNCPVKPSYLN
ILEDEQPLNSAAHKESPPTVDSTQQPNPLPLRLPEMEPLVPRVKEVKS AQETPESSLAGSPDTIESPVLVNDYAE
SGNISQKSDEEDFVKVEDLPLKLT IYSEADLRKKMVEEQKNHLSGEMCE

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FIGURE 861

GCCAGCTGCACGGCTCCTGGCCCCGGAGCATGCGCGAGAGCCGCCCCGGAGCGCCCCGGAGCCCCCGCCGTCCC
GCCCCGCGCGTCCCCGCGCCCCGCGCCAGCGCACCCCCGGACGCTATGGCCCACCCCTCCGGCTGGCCCCCTTCTG
TAGGATGGTAGCACACAACCAGGTGGCAGCCGACAATGCAGTCTCCACAGCAGCAGAGCCCCGACGGCGGCCAGA
ACCTTCCTCCTCTTCCTCCTCCTCGCCCCGCGCCCCCGCGCGCCCGCGGCCGTGCCCCGCGGTCCCGGCCCGGC
TGGCGACACGCACATTCCGCACATTCCGTTTCGCACGCCGATTACCGGCGCATCACGCGCGCCAGCGCGCTCCT
TGGCTGCGGATTCTACTGGGGGCCCCCTGAGCGTGCACGGGGCGCACGAGCGGCTGCGCGCCGAGCCCGTGGG
TCTTCCTGGTGCGCGACAGCCGCCAGCGGAAGTCTTTTTCGCCCTTAGCGTGAAGATGGCTCGGGACCCAC
GAGCATCCGCGTGCACCTTCAGGCCGGCCGCTTTCACCTGGATGGCAGCCGCGAGAGCTTCGACTGCCTCTTCGA
TCTGCTGGAGCACTACGTGGCGGGCGCCGCGCCGATGCTGGGGGCCCCGCTGCGCCAGCGCCGCGTGCGGCCGCT
AGGAGCTGTGCCGCCAGCGCATCGTGGCCACCGTGGGCGCGAGAACCTGGCTCGCATCCCCCTCAACCCCGT
CCGCGACTACCTGAGCTCCTTCCCCCTCCAGATTGACCGGCAGCGCCCGCCGTGCACGCAGCATTAACTGG
TCCCGTGTATTATTTGTTATTACTTGCCCTGGAACCATGTGGGTACCCTCCCCGGCCTGGGTTGGAGGGAGCGGA
TGGTGTAGGGGCGAGGCGCCTCCCGCCCTCGGCTGGAGACGAGGCCGAGACCCCTTCTCACCTCTTGAGGGGG
TCTCCCCCTCCTGGTGCTCCCTCTGGGTCCCCCTGGTTGTTGTAGCAGCTTAAGTGTATCTGGAGCCAGGACCT
GAACTCGCACCTCCTACCTCTTCATGTTTACATATACCCAGTATCTTTGCACAAACCAGGGGTTGGGGGAGGGTC
TCTGGCTTTATTTTTCTGTGTGCAGAAATCCTATTTTATATTTTTTAAAGTCAGTTTAGGTAATAAACTTTATTA
TGAAAGTTTTTTTTTT

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FIGURE 862

MVAHNQVAADNAVSTAAEPRRRPEPSSSSSSSPAAPARPRPCPAVPAPAPGDTHFRTRSHADYRRITRASALLD
ACGFYWGPLSVHGAHERLRAEPVGTFLVRDSRQRNCFALSVKMASGPT SIRVHFQAGRFHLDGSRESFDCLFEL
LEHYVAAPRRMLGAPLRQRRVRPLQELCRQRIVATVGRENLARIP LNPVLRDYLSSFPFQI

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FIGURE 863

CAGACAGACCAATCACGCGCATTCTTCGGCCACGACAAGCGCGCCTCTGATCACGTGACCAGGTCCGCTACCCAC
GTGGGGGCTCAGCGTGACCCCTTCTTTGTGCTCGGGTTAGGAGGAGCTAGGCTGCCATCGGGCCGGTGACAGATAC
GGGGTTGCTCTTTTGCTCATAAGAGGGGGCTTCGCTGGCAGTCTGAACGGCAAGCTTGAGTCAGGACCCTTAATTA
AGATCCTCAATTGGCTGGAGGGCAGATCTCGCGAGTAGGGCAACGCGGTAAAAATATTGCTTCGGTGGGTGACGC
GGTACAGCTGCCCAAGGGCGTTTCGTAACGGGAATGCCGAAGCGTGGGAAAAAGGGAGCGGTGGCGGAAGACGGGG
ATGAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGACGGCCGCAAAGAAAAATGACAAAGAGGCAGCAGGAG
AGGGCCCAGCCCTGTATGAGGACCCCCAGATCAGAAAACCTCACCCAGTGGCAAACCTGCCCACTCAAGATCT
GCTCTTGGAATGTGGATGGGCTTCGAGCCTGGATTAAGAAGAAAGGATTAGATTGGGTAAAGGAAGAAGCCCCAG
ATATACTGTGCCTTCAAGAGACCAAATGTTTCAGAGAACAACCTACCAGCTGAACTTCAGGAGCTGCCTGGACTCT
CTCATCAATACTGGTCAGCTCCTTCGGACAAGGAAGGGTACAGTGGCGTGGGCCTGCTTCCCGCCAGTGCCAC
TCAAAGTTTCTTACGGCATAGGCGATGAGGAGCATGATCAGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGT
TTGTGCTGGTAACAGCATATGTACCTAATGCAGGCCGAGGTCTGGTACGACTGGAGTACCGGCAGCGCTGGGATG
AAGCCTTTCGCAAGTTCCTGAAGGGCCTGGCTTCCCGAAAGCCCCCTTGTGCTGTGTGGAGACCTCAATGTGGCAC
ATGAAGAAATTGACCTTCGCAACCCCAAGGGGAACAAAAAGAATGCTGGCTTCACGCCACAAGAGCGCCAAGGCT
TCGGGGAATTACTGCAGGCTGTGCCACTGGCTGACAGCTTTAGGCACCTCTACCCCAACACACCCTATGCCTACA
CCTTTTGGACTTATATGATGAATGCTCGATCCAAGAATGTTGGTTGGCGCCTTGATTACTTTTTTGTGTGCCACT
CTCTGTTACCTGCATTGTGTGACAGCAAGATCCGTTCCAAGGCCCTCGGCAGTGATCACTGTCTATCACCTAT
ACCTAGCACTGTGACACCACCCCTAAATCACTTTGAGCCTGGGAAATAAGCCCCCTCAACTACCATTCTTTCTTT
AAACACTCTTCAGAGAAATCTGCATTCTATTTCTCATGTATAAACTAGGAATCCTCCAACCAGGCTCCTGTGAT
AGAGTTCTTTTAAGCCCAAGATTTTTTATTTGAGGGTTTTTTGTTTTTTAAAAAAAATTGAACAAAGACTACTA
ATGACTTTGTTTGAATTATCCACATGAAAATAAAGAGCCATAGTTTCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 864

MPKRGKKGAVAEDGDELRTPEAKKSKTAAKNDKEAAGEGPALYEDPPDQKTSPSGKPATLKICSWNVDGLRAW
IKKKGLDWVKEEAPDILCLQETKCSENKLPAELQELPGLSHQYWSAPSDKEGYSGVGLLSRQCPLKVSYGIGDEE
HDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAFRKFLKGLASRKPLVLCGDLNVAHEEIDLRNPKG
NKKNAGFTPQERQGFCELLQAVPLADSFRLYPNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKI
RSKALGSDHCPITLYLAL

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FIGURE 865

GGCGCCGCGCAAACGTCAGTGACGAGGCAGACGGCGGCAGTGCGGCTTGCTCTTGGAAGTTCAGGCTCGGTTG
TCTTTTGGGAGCCATGGAGAGTGACTTTTATCTGCGTTACTACGTGGGGCACAAGGGCAAGTTCGGCCACGAGTT
CCTGGAGTTTGAGTTTCGACCGGACGGGAAGTTAAGATATGCCAACACAGCAATTACAAGAATGATGTCATGAT
CAGAAAAGAGGCTTATGTACATAAAAGCGTGATGGAGGAAGTGAAGAGAATAATTGACGACAGTGAAATTACCAA
AGAGGATGATGCATTGTGGCCTCCTCCTGACCGAGTGGGCGGCAGGAGCTTGAAATCGTCATTGGAGATGAACA
CATTTCTTTTACAACATCAAAAATTGGTTCCCTTATTGATGTCAATCAATCCAAGGATCCAGAAGGCTTACGAGT
ATTTTATTATCTTGTCCAGGACCTGAAGTGTTTGGTCTTCAGTCTTATTGGATTACACTTCAAGATTAAACCAAT
CTAGACTGAATATTGGTGTGGACATGGGGGGTGGGTGGGAGTAGAAAATTTTGTGTATATCAGGGCAGTATTTT
TTATGAACATAAATGATTGTCTTTAATAAATATGTGATAAAATCCAATTTTATTATTTTATAAAGACCTGAAC
ATGTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 866

MESDFYLRYVGHKGKFGHEFLEFEFRPDGKLRYANNSNYKNDVMIRKEAYVHKSVMEELKRIIDDSEITKEDDA
LWPPDRVGRQELEIVIGDEHISFTTSKIGSLIDVNQSKDPEGLRVFYLVQDLKCLVFSLIGLHFKIKPI

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FIGURE 867

CATTTTCATTGGCGTTTGAGTCAGCAAAGAAGTCAAGATGGCCAAAGTTCCAGACATGTTTGAAGACCTGAAGAAC
TGTTACAGTGAAAATGAAGAAGACAGTTCCCTCCATTGATCATCTGTCTCTGAATCAGAAATCCTTCTATCATGTA
AGCTATGGCCCACTCCATGAAGGCTGCATGGATCAATCTGTGTCTCTGAGTATCTCTGAAACCTCTAAAACATCC
AAGCTTACCTTCAAGGAGAGCATGGTGGTAGTAGCAACCAACGGGAAGGTTCTGAAGAAGAGACGGTTGAGTTTA
GCCAATCCATCACTGATGATGACCTGGAGGCCATCGCCAATGACTCAGAGGAAGAAATCATCAAGCCTAGGTCA
CCTTTTAGCTTCCCTGAGCAATGTGAAATACAACCTTTATGAGGATCATCAAATACGAATTCATCCTGAATGAC
CTCAATCAAAGTATAATTCGAGCCAATGATCAGTACCTCACGGCTGCTGCATTACATAATCTGGATGAAGCA
GAAATTTGACATGGGTGCTTATAAGTCATCAAAGGATGATGCTAAAATTACCGTGATTCTAAGAATCTCAAAA
CTCAATTGTATGTGACTGCCCAAGATGAAGACCAACCAGTGCTGCTGAAGGAGATGCCTGAGATACCCAAAACC
ACAGGTAGTGAGACCAACCTCCTCTTCTTCTGGGAAACTCACGGCACTAAGAACTATTTACATCAGTTGCC
GCCAAACTTGTTTTATTGCCACAAAGCAAGACTACTGGGTGTGCTTGGCAGGGGGGCCACCCTCTATCACTGAC
GAGTACTGGAACCAAGGCGTAGGTCTGGAGTCTCACTTGTCTCACTTGTGCAGTGTTGACAGTTTCATATG
CATGTACATGAAGAAGCTAAATCCTTTACTGTTAGTCATTGCTGAGCATGTACTGACCCTTGTAATTCTAA
GAATGTTTACACTCTTTGTAAGAGTGGAACCAACACTAACATATAATGTTGTTATTTAAAGAACACCCTATAT
TTCATAGTACCAATCATTTTAATTATTATTCTTCATAACAATTTTAGGAGGACCAGAGCTACTGACTATGGCT
ACCAAAAAGACTCTACCCATATTACAGATGGCAAATTAAGGCATAAGAAAATAAGAAATATGCACAATAGCAG
TTGAAACAAGAAGCCACAGACCTAGGATTCATGATTCATTTCAACTGTTTGCCTTCTACTTTTAAGTTGCTGA
TGAATCTTAATCAAATAGCATAAGTTTCTGGGACCTCAGTTTTATCATTTTTCAAAATGGAGGGAATAATACCTA
AGCCTTCTGCGCAACAGTTTTTTATGCTAATCAGGGAGGTCATTTTGGTAAAATACTTCTTGAAGCCGAGCCT
CAAGATGAAGGCAAAGCACGAAATGTTATTTTTTAATTATTATTATATATGTTTTATAAATATATTTAAGATA
ATTATAATACTATATTTATGGGAACCCCTTCATCCTCTGAGTGTGACCAGGCATCCTCCACAATAGCAGACAG
TGTTTTCTGGGATAAGTAAGTTTGATTCATTAATACAGGGCATTTTGGTCCAAGTTGTGCTTATCCCATAGCCA
GGAAACTCTGCATTCTAGTACTTGGGAGACCTGTAATCATATAATAAATGTACATTAATTACCTTGAGCCAGTAA
TTGGTCCGATCTTTGACTCTTTTGCCATTAACTTACCTGGGCATTCTTGTTCATTCAATTCCACCTGCAATCA
AGTCCTACAAGCTAAAATTAGATGAACTCAACTTTGACAACCATGAGACCACTGTTATCAAAGTTGAGTTCATCT
AATTTTAGCTTGTAGAGACGGGATTCACCATCTTGGCCGTGCTGGTCTCGAACTTCTGACCTCGTGATCCACCC
GCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCGCGCCCGGCCTGGAGTTTCTACTGTGCACCAG
GCACTACCTTTACATGTATTGTTTTATTTAATCCTCAGTCAGCCGTGTTTGGTAGGTGCAGTTAGTATATTTCCA
TTTTCATCTGCGCAAACAGATTCAGGAACCTTGTAATTTACATAAGGTCACATTCATCCTAATTCACAAAATCAA
GATTTTACACCTATTCTTTTTCTTTCCAGTGCTGTGCTTTTTCTCTCATACCAAGGAGAAGTAATAAGCCTAA
CGTTTTAAACCTCACAAAAGTACATACAGAAAAGTAAATAGCCTAATTTTGCAACTAATACAAATGGCGCTGTAC
TTCTTTGGTGATGGTAGATTTATAATTTTTGAAGTATGGTAGATTCAAATGAACCACTGAAAAGGCATTTAGTTT
CTTGTCCTCAATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 868

MAKVPDMFEDLKNCYSENEEDSSSIDHLSLNQKSFYHVSYGPLHEGCMQSVSLISSETSKTSKLTFKESMVVVA
TNGKVLKKRRLSLSQSITDDDLIAIANDSEEEI IKPRSAPFSFLSNVKYNFMRI IKYEFILNDALNQSIIRANDQ
YLTAAALHNLDEAVKFDMGAYKSSKDDAKITVILRISKTLQLYVTAQDEDQPVLLKEMPEIPKTITGSETNLLFFW
ETHGTKNYFTSVAHPNLFIA TKQDYWVCLAGGPPSITDFQILENQA

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FIGURE 869

AGCAGCTCCAACCAGGGCAGCCTTCCTGAGAAGATGCAACCAATCCTGCTTCTGCTGGCCTTCCTCCTGCTGCCC
AGGGCAGATGCAGGGGAGATCATCGGGGGACATGAGGCCAAGCCCCACTCCCGCCCCCTACATGGCTTATCTTATG
ATCTGGGATCAGAAGTCTCTGAAGAGGTGCGGTGGCTTCCTGATACAAGACGACTTCGTGCTGACAGCTGCTCAC
TGTTGGGGAAGCTCCATAAATGTCACCTTGGGGGGCCACAATATCAAAGAACAGGAGCCGACCCAGCAGTTTATC
CCTGTGAAAAGACCCATCCCCATCCAGCCTATAATCCTAAGAACTTCTCCAACGACATCATGCTACTGCAGCTG
GAGAGAAAGGCCAAGCGGACCAGAGCTGTGCAGCCCCCTCAGGCTACCTAGCAACAAGGCCCAGGTGAAGCCAGGG
CAGACATGCAGTGTGGCCGGCTGGGGGCAGACGGCCCCCCTGGGAAAACACTCACACACACTACAAGAGGTGAAG
ATGACAGTGCAGGAAGATCGAAAGTGCGAATCTGACTTACGCCATTATTACGACAGTACCATTGAGTTGTGCGTG
GGGGACCCAGAGATTAAAAAGACTTCCTTTAAGGGGGACTCTGGAGGCCCTCTTGTGTGTAACAAGGTGGCCAG
GGCATTGTCTCCTATGGACGAAACAATGGCATGCCTCCACGAGCCTGCACCAAAGTCTCAAGCTTTGTACACTGG
ATAAAGAAAACCATGAAACGCTACTAACTACAGGAAGCAAATAAGCCCCCGCTGTAATGAAACACCTTCTCTGG
AGCCAAGTCCAGATTTACACTGGGAGAGGTGCCAGCAACTGAATAAATACCTCTCCAGTGTAATCTGGAGCCA
AGTCCAGATTTACACTGGGAGAGGTGCCAGCAACTGAATAAATACCTCTTAGCTGAGTGG

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FIGURE 870

MQPILLLLAFLLLPRADAGEIIGGHEAKPHSRPYMAYLMIWDQKSLKRCGGFLIQDDFVLTAHCWGSSINVTLG
AHNIKEQEPTQQFIPVKRPIPHPAYNPKNFSNDIMLLQLERKAKRTRAVQPLRLPSNKAQVKPGQTCVAGWGQT
APLGKHSHTLQEVKMTVQEDRKCESDLRHYYDSTIELCVGDPEIKKTSFKGDSGGPLVCNKVAQGIVSYGRNNGM
PPRACTKVSSFVHWIKKTMKRY

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FIGURE 871

ACAGACTGCCAAATGGAACAGACAAGCAGGTTGTCTTGTGTTAAAGAAAATGAGATATGAGTCAGTTACTCCCGG
AGGCAATGCTGCTGTTTCAGCTCTTGTGTTTTTGTGGCCAGGGTCTTCATGAACACTAATAGGGGTACCAGGCCCT
CTTCCTTGTAGAAAGAAATCAGGATAACAAAGGTATATTGGGCACCCCTACAAAAGGAATCTGTATCTGTATCAA
GATGATCTGAAGAACAGCTTCTACCTTTAGGAATGTCTAGTGTTCAAAATGACTAGCATCTTCCATTTTGCCAT
TATCTTCATGTTAATACTTCAGATCAGAATACAATTATCTGAAGAAAGTGAATTTTTAGTTGATAGGTCAAAAAA
CGGTCTCATCCACGTTCCATAAGACCTATCCAGAAAACAACAATCTTAAATATATCGCAAAATTATATATCTGA
GCTTTGGACTTCTGACATCTTATCACTGTCAAACTGAGGATTTTGATAATTTCTCATAATAGAATCCAGTATCT
TGATATCAGTGTTCATAATTCAACCAGGAATTGGAATACTTGGATTTGTCCCACAACAAGTTGGTGAAGATTTT
TTGCCACCCTACTGTGAACCTCAAGCACTTGGACCTGTCATTTAATGCATTTGATGCCCTGCCTATATGCAAAGA
GTTTGGCAATATGTCTCAACTAAAATTTCTGGGGTTGAGCACCACACACTTAGAAAAATCTAGTGTGCTGCCAAT
TGCTCATTTGAATATCAGCAAGGTCTTGCTGGTCTTAGGAGAGACTTATGGGGAAAAAGAAGACCCTGAGGGCCT
TCAAGACTTTAACACTGAGAGTCTGCACATTGTGTTCCCCACAAACAAAGAATTCCATTTTATTTTGGATGTGTC
AGTCAAGACTGTAGCAATCTGGAATCTAATATCAAATGTGTGCTAGAAGATAACAAATGTTCTTACTTCCT
AAGTATTCTGGCGAACTTCAAACAAATCCAAAGTTATCAAGTCTTACCTTAAACAACATTGAAACAACCTTGGA
TTCTTTTCAATTAGGATCCTCCAGCTGGTTTGGCATACAACTGTATGGTATTTCTCAATTTCAAACGTGAAGCTACA
GGGTCAGCTGGACTTCAGAGATTTTGATTATTCTGGCACTTCCTTGAAGGCCTTGCTATACACCAAGTTGTCAG
CGATGTGTTTCGTTTTCCGCAAAGTTATATCTATGAAATCTTTTCGAATATGAACATCAAAAATTTACAGTGTC
TGGTACACGCATGGTCCACATGCTTTGCCCATCCAAAATTAGCCCGTTCTGCATTTGGATTTTCCAATAATCT
CTTAACAGACACGGTTTTTGAATTTGTGGGCACCTTACTGAGTTGGAGACACTTATTTTACAAATGAATCAATT
AAAAGAACTTTCAAAAATAGCTGAAATGACTACACAGATGAAGTCTCTGCAACAATTGGATATTAGCCAGAATTC
TGTAAGCTATGATGAAAAGAAAGGAGACTGTTCTTGGACTAAAAGTTTATTAAGTTTAAATATGTCTTCAAATAT
ACTTACTGACACTATTTTTCAGATGTTTACCTCCCAGGATCAAGGTACTTGATCTTCACAGCAATAAAATAAGAG
CATTCTTAAACAAGTCGTAAAACCTGGAAGCTTTGCAAGAACTCAATGTTGCTTTCAATTTCTTAACTGACCTTCC
TGGATGTGGCAGCTTTAGCAGCCTTTCTGTATTGATCATTGATCACAATTCAGTTTCCCACCCATCAGCTGATTT
CTTCCAGAGCTGCCAGAAGATGAGGTCAATAAAAGCAGGGGACAATCCATTCCAATGTACCTGTGAGCTAGGAGA
ATTTGTCAAAAATATAGACCAAGTATCAAGTGAAGTGTTAGAGGGCTGGCCTGATTCTTATAAGTGTGACTACCC
GGAAAGTTATAGAGGAACCCTACTAAAGGACTTTCACATGTCTGAATTATCCTGCAACATAACTCTGCTGATCGT
CACCAICGTTGCCACCATGCTGGTGTGGCTGTGACTGTGACCTCCCTCTGCATCTACTTGGATCTGCCCTGGTA
TCTCAGGATGGTGTGCCAGTGGACCCAGACCCGGCGCAGGGCCAGGAACATACCCTTAGAAGAACTCCAAAGAAA
TCTCCAGTTTCATGCATTTATTTTATATAGTGGGCACGATTCTTTCTGGGTGAAGAATGAATTATTGCCAAACCT
AGAGAAAGAAGGTATGCAGATTTGCCTTCATGAGAGAACTTTGTTCTGGCAAGAGCATTGTGGAAAATATCAT
CACCTGCATTGAGAAGAGTTACAAGTCCATCTTTGTTTTGTCTCCCAACTTTGTCCAGAGTGAATGGTGCCATTA
TGAATCTACTTTGCCCATCACAATCTCTTTCATGAAGGATCTAATAGCTTAATCCTGATCTTGCTGGAACCCAT
TCCGCAGTACTCCATTCTAGCAGTTATCACAAGCTCAAAGTCTCATGGCCAGGAGGACTTATTTGGAATGGCC
CAAGGAAAAGAGCAAACGTGGCCTTTTTTGGGCTAACTTAAGGGCAGCCATTAATATTAAGCTGACAGAGCAAGC
AAAGAAAATAGATTACACATCAAGTGAAAAATATTCCTCCTGTTGATATTGCTGCTTTTGAAGTTCCAACAATGA
CTTTATTTTGCATCAGCATAGATGTAAACACAATTGTGAGTGTATGATGTAGGTAAAAATATATACCTTCGGGTC
GCAGTTCACCATTTATATGTGGTATTAAAAATTAATGAATGATATAACTTTGATTT

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FIGURE 872

MTSIFHFAIIFMLILQIRIQLSESEFLVDRSKNGLIHVPKDLSQKTTILNISQNYISELWTS DILSLSKLRILI
ISHNRIQYLDISVFKFNQELEYLDLSHNKLVKISCHPTVNLKHLDSLNFADALPICKEFGNMSQLKFLGLSTTH
LEKSSVLPPIAHLNISKVLLVLGETYGEKEDPEGLQDFNTESLHIVFPTNKEFHFI LDVSVKTVANLELSNIKCVL
EDNKCSYFLSILAKLQTNPKLSSLTLNNIETTWSNFIRILQLVWHTTVWYFISISNVKLQGQLDFRDFDYSGTSLK
ALSIHQVVS DVFGFPQSYIYEIFSNMNIKNFTVSGTRMVHMLCPSKISPFLHLDFSNNLLTDTVFENCGLHTELE
TLILQMNQLKELSKIAEMTTQMSLQQLDISQNSVSYDEKKGDCSWTKSLLSLNMSSNILTDTIFRCLPPRIKVL
DLHSNKiKSIPKQVVKLEALQELNVAFNSLTDLPGCGSFSSLSVLIIDHNSVSHPSADFFQSCQKMRSIKAGDNP
FQCTCELGEFVKNIQVSSEVLEGWPD SYKCDYPESYRGTLKDFHMSSELSCNITLLIVTIVATMLVLAVTVTSL
CIYLDLPWYLRMVCQWTQTRRRARNIPLEELQRNLQFHAFISYSGHDSFWVKNELLPNLEKEGMQICLHERNFVP
GKSIVENIITCIEKSYKSIFVLSPNFVQSEWCHYELYFAHHNLFHEGSNSLILILLEPI PQYSIPSSYHKLKSLM
ARRTYLEWPKEKSKRGLFWANLRAAINIKLTEQAKK

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FIGURE 873

G1CTGAGGCTCGGCCGCTGAGCCGCGGACGGTTTGCTGAGCCCGTTAGTGCGCCCGGCCGAGACACGCCGCCGC
CATGTCCCCTACCTGCGTCCCCCAACACGTCTCTGTTTCGTACAGGAACGTGGCCGACGACACCAGGTCTGAAGA
CTTGCGGCGTGAATTTGGTCGTTATGGTCCTATAGTTGATGTGTATGTTCCACTTGATTTCTACACTCGCCGTCC
AAGAGGATTTGCTTATGTTCAATTTGAGGATGTTTCGTGATGCTGAAGACGCTTTACATAATTTGGACAGAAAGTG
.IGTGGACGGCAGATTGAAATACAGTTTGCCAGGGGGATCGAAAGACACCAAATCAGATGAAAGCCAAGGA
AGGAATGTGTACAGTTCTTCACGCTATGATGATTATGACAGATACAGACGTTCTAGAAGCCGAAGTTATGA
-AGGAGATCAAGAAGTCGGTCTTTTGATTACAACCTATAGAAGATCGTATAGTCCTAGAAACAGTAGACCGAC
TGAAGACCACGGCGTAGCAGAAGCCATTCCGACAATGATAGATTCAAACACCGAAATCGATCTTTTTCAAGATC
TATCCAATTCAAGATCACGGTCCAAGTCCCAGCCCAAGAAAGAAATGAAGGCTAAATCACGTTCTAGGTCTGC
TACACACCAAACTAGAGGCACCTCTAAAACAGATTCCAAAACACATTATAAGTCTGGCTCAAGATATGAAAA
TCAAGGAAAAAAGAACCACCTAGATCCAAATCTCAGTCAAGATCACAGTCTAGGTCTAGGTCAAAATCTAG
AAGGTCTTGACTAGTCCTAAGTCCAGTGGCCACTGATAGTATAAACCATGGTCATTTTTAGGCATGTATCA
AATTTACTCATAGTTTGGTTTACTTAAATTATCAGGAATACAATGTTGCAATGATGCTTAAAAAACACTTGTT
AATTTCCCTGTACCAGGCAATGGTTATAATTAAATGATATGCTGTTGAGAAGCCACTCTTAAGAGTCCAGTTT
GYITTAATGTTATGGGCAGCTACCAATTTGTGGTGTCTCTGTATATTTTTGTAAAGATTCTCATTTTTATGCTTG
AAGTATTTGGTGAAAAGATGTTGGTTGACCATAATTTGCAACATTGTCTCATTAATAAAATAAACTTTTCATATTCAT
ATTTGGTAGAACTGTTAACCTAGAAATGTAGCTTGCTAATAAGATAGAATGATACAAAAGTGAAGTAGTAGCCAC
AGTACAACACTGACTGCTCAGACACATTTAGGTTTCAGGGTGGACCTTTATGTCTTGTCAGATGTCTAGGCCCGG
CTGGGCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCGGAGGCGGGCGGATCACGAGGTGAGGAGTT
CGAGACCAGCCTGACCAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTATCCGGGCATGGTGGCACA
TGCCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAAGAGAATCGCTTGAACTGGGAGGTAGAAGTTGCAGTGAG
CCAAAATCACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAACCGGATG
TCTAGGCCAATGATAATTTTTGATGCAGTGTGGATTAGTTCTTTTGTTAACCCCACTGTCTTGGGGAATGAT
GCCAGCTGGGAAATTGAGTTTTGACTGAAACATGGAGCCTTCACTGCTTTTTTCTGGTTTCTATGAAGATTTG
GAACATAGAAAACACAAAACTCACCTTAAAATTTGAGCAGGTCGTTGATGGCAAAAATAATTTAAGGAAAAAG
GAATATTTCTATGTAGTTATTCTAAAGTTTAAGGAGCGTTGTTGACCATAATATTGCTTAGTTTTCTTACTGCTG
TTAAGTAAGTAAATTGTTTCAAAGTAGGTTTTGTGTGTGTGCTAGTGTAAGAAGTGAATTTTGATGCTT
ACAGCACTTGGCTCGTGCATTTGTATCAAAATTTGCCTGCCTCTTTATGAGGGAGGCCTGCTTTTACACCTCAG
TTTATTTAATACGAGGCAAGTTGTAAGACAACACTCATTCTAGGTGATTCTGTGGTGCCATGAAATTTAAGGTAA
TTTGGGGAAGGATTAGTCAGTTTTAAGCAAGAGTCACATCTTTGAGCTTTCGATTATCAGTGTAGTACCTGA
CTAAAATGAAGTAATACCCTTAAACCATTATAATTTCTAGTATTTCTCTGAAAGATCGTTTTGGGGACAAAAG
TGACTTGACATGTCCAATTTCAATTCAGAATAAAAAGCTAGCATCTTAAAAATCTCAGATTGCTTGCTTACAGA
TACAAGTACGAATTATGGACAAACGATTCCCTTTAGAGGATTACTTTTTCAATTTTCGGTTTTAGTAATCTAGGC
TTTGCCTGTAAAGAATACAACGATGGATTTTAAATACTGTTTGTGGAATGTGTTTAAAGGATTGATTCTAGAACC
TTTGTATATTTGATAGTATTTCTAACTTTCAATTTCTTACTGTTTGCAGTTAATGTTTCATGTTCTGCTATGCAAT
CGTTTATATGCACGTTTCTTTAATTTTTTAGATTTTCTGGATGTATAGTTTAAACAACAAAAGTCTATTTAA
AACTGTAGCAGTAGTTTACAGTTCTAGCAAAGAGGAAAGTTGTGGGGTTAACTTTGTATTTTCTTTCTATAGA
GGCTTCTAAAAGGTATTTTATATGTTCTTTTAAACAATATTGTGTACAACCTTTAAACATCAATGTTTGA
TCAAAACAAGACCCAGCTTATTTTCTGCTTGCTGTAAATTAAGCAAACATGCTATAATAAAAACAAAATGAAGG

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FIGURE 874

MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIVDVYVPLDFYTRRPRGFAYVQFEDVRDAEDALHNLDKRW
ICGRQIEIQFAQGDRKTPNQMKAKEGRNVYSSSRYYDDYDRYRRSRRSYERRRSRSRSFDYNYRRSYSPRNSRPT
GRPRRSRSHSDNDRFKHRNRSFSRSKSNRSRSRSKSQPKKEMKAKSRRSRSASHTKTRGTSKTD SKTHYKSGSRYEK
ESRKKEPPRSKSQSRSQSRRSRSRSRSWTSPKSSGH

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FIGURE 875

CAGTCCCCAAACCTAGAAATAAACTATTGGTATATTCTGGTGAATTTCCCTTTCTGTCTTTTTCTATT
CATTTTTGTTATCTTTTTTTTAAAAAAAGGTAACCTAAATGGACTCGTACAGCTTATATGCTTGTACGTTCTGAT
GTCCCCCATGTCTTCAGAAATCTTGTATAGCTGCCTGTGTTCTACTTTTGTGGATGCACTATAATTTACTTAAC
TCTCATCTTGATGGATTTTAAGGATGTTTCCAATTTTTTCATACTAGTAAAATAACTCTGCTAAAGATATGAAGC
CTGGAATTGGCAGAGATATTTTAAGACTCTAGATACATACTGGCAAATGTTTTCCAGAAACGTTTGTATTCAAC
TACTATTGCAGATGAGAATACCTGTCTTTCACCTCAGTTATAATTCTGATATTATAACGCTAAAATCTCTGCAA
TTTGATGGGTGAAAAAGCATCTTATTGTAATTGTAATTTTTGTGTTAGTAAGGTGGAATGTTCTTTTTTATATTT
TTTGTACTGGTCATATTTTAAGGAACGTGATAAAGAAGTAAGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGA
AGAAGAAAAAGAAAAAGAAGAGAAAGAGTCGGAAGACAAACCTGAAATTGAAGATGTTGGTTCTGATGAGGAAGA
AGAAAAGAAGGATGGTGACAAGAAGAAGAAGAAGATTAAAGGAAAAGTACATCGATCAAGAAGAGCTCAACAA
AACAAAGCCCATCTGGACCAGAAAATCCCGACGATATTACTAATGAGGAGTACGGAGAATTTCTATAAGAGCTTGAC
CAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTTCAGTTGAAGGACAGTTGGAATTCAGAGCCCTTCTATT
TGTCCCACGACGTGCTCCTTTTGATCTGTTTGAAAACAGAAAGAAAAAGAACAATATCAAATTGTATGTACGCAG
AGTTTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAATATCTGAACTTCATTAGAGGGGTGGTAGACTCGGA
GGATCTCCCTCTAAACATATCCCGTGAGATGTTGCAACAAAGCAAAATTTTGAAAGTTATCAGGAAGAATTTGGT
CAAAAAATGCTTAGAACTCTTTACTGAAGTGGCGGAAGATAAAGAGAACTACAAGAAATTTCTATGAGCAGTTCTC
TAAAAACATAAAGCTTGGAATACACGAAGACTCTCAAAATCGGAAGAAGCTTTCAGAGCTGTTAAGGTACTACAC
ATCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTACTGCACCAGAATGAAGGAGAACAGAAACATATCTA
TTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCAGCCTTGTGGAACGTCTTCGGAAACATGGCTTAGA
AGTGATCTATATGATTGAGCCATTGATGAGTACTGTGTCCAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGT
GTCAGTCACCAAAGAAGGCCTGGAACCTCCAGAGGATGAAGAAGAGAAAAAGAAGCAGGAAGAGAAAAAACAAA
GTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAGAAAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATT
GGTGACATCTCCAIGCTGTATTGTGACAAGCACATATGGCTGGACAGCAAACATGGAGAGAATCATGAAAGCTCA
AGCCCTAAGAGACAACCTCAACAATGGGTTACATGGCAGCAAAGAAACACCTGGAGATAAACCTTGACCATTCAT
TATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAACGACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTA
TGAAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAAGATCCCCAGACACATGCTAACAGGATCTACAGGATGAT
CAAACCTTGGTCTGGGTATTGATGAAGATGACCCCTACTGCTGATGATACCAGTGCTGCTGTAAGTGAAGAAATGCC
ACCCCTTGAAGGAGATGACGACACATCACGCATGGAAGAAGTAGACTAATCTCTGGCTGAGGGATGACTTACCTG
TTCAGTACTCTACAATTCCTCTGATAATATATTTTCAAGGATGTTTTTCTTTATTTTTGTAAATATTAAAAAGTC
TGTATGGCATGACAACCTACTTTAAGGGGAAGATAAGATTTCTGTCTACTAAGTGATGCTGTGATACCTTAGGCAC
TAAAGCAGAGCTAGTAATGCTTTTTGAGTTTCATGTTGGTTTTATTTTACAGATTGGGGTAACGTGCACTGTAAG
ACGTATGTAACATGATGTTAACTTTGTGTGGTCTAAAGTGTTTAGCTGTCAAGCCGGATGCCTAAGTAGACCAAA
TCTTGTTATTGAAGTGTCTGAGCTGTATCTTGATGTTTAGAAAAGTATTCGTTACATCTTGTAGGATCTACTTT
TTGAACTTTTCATTCCCTGTAGTTGACAATTCTGCATGTACTAGTCCTCTAGAAATAGGTTAAACTGAAGCAACT
TGATGGAAGGATCTCTCCACAGGGCTTGTTTTCCAAAGAAAAGTATTGTTTGGAGGAGCAAAGTTAAAAAGCCTAC
CTAAGCATATCGTAAAGCTGTTCAAAAATAACTCAGACCCAGTCTTGTGGATGGAATGTAGTGCTCGAGTCACA
TTCTGCTTAAAGTTGTAACAAATACAGATGAGT

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FIGURE 876

MGEKASYCNCNFCVSKVECSFLYFLYWSYFKERDKEVSDDEAEKEDKEEEKEKEEKESEDKPEIEDVGSDEEEE
KKDGDKKKKKKIKKEYIDQEELNKTPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFV
PRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIIRGVVDSIDLPLNISREMLQQSKILKVIRKNLVK
KCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYITSASGDEMVS LKDYCTRMKENQKHIYY
ITGETKDQVANS AFVERLRKHGLEVIYMIPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKTKF
ENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSII
ETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMP
LEGDDDTSRMEEVD

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FIGURE 877

GCTGGAGGATGTGGCTGCAGAGCCTGCTGCTCTTGGGCACCTGTGGCCTGCAGCATCTCTGCACCCGCCCGCTCGC
CCAGCCCCAGCACGCAGCCCTGGGAGCATGTGAATGCCATCCAGGAGGCCCGCGTCTCCTGAACCTGAGTAGAG
ACACTGCTGCTGAGATGAATGAAACAGTAGAAGTCATCTCAGAAATGTTTGACCTCCAGGAGCCGACCTGCCTAC
AGACCCGCCTGGAGCTGTACAAGCAGGGCCTGCGGGGCAGCCTACCAAGCTCAAGGGCCCCTTGACCATGATGG
CCAGCCACTACAAGCAGCACTGCCCTCCAACCCCGGAACTTCCTGTGCAACCCAGACTATCACCTTTGAAAGTT
TCAAAGAGAACCTGAAGGACTTTCTGCTTGTCATCCCCTTTGACTGCTGGGAGCCAGTCCAGGAGTGAGACCGGC
CAGATGAGGCTGGCCAAGCCGGGGAGCTGCTCTCTCATGAAACAAGAGCTAGAACTCAGGATGGTCATCTTGGA
GGGACCAAGGGGTGGGCCACAGCCATGGTGGGAGTGGCCTGGACCTGCCCTGGGCCACACTGACCCTGATACAGG
CATGGCAGAAGAATGGGAATATTTTATACTGACAGAAATCAGTAATATTTATATATTTATATTTTAAAAATATTT
ATTTATTTATTTATTTAAGTTCATATTCATATTTATTCAAGATGTTTTACCGTAATAATTATTATTTAAAAATAT
GCTTCT

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FIGURE 878

MWLQSLLLLGTVACSIAPARSPSPSTQPWEHVNAIQEARLLNLSRDTAAEMNETVEVISEMFDLQEPTCLQTR
LELYKQGLRGSLTKLKGPLTMMASHYKQHCPTPETSCATQTITFESFKENLKDFLLVIPFDCWEPVQE

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FIGURE 879

AGGGGACAAGTCTAGGAGGTCTCTGAGGTTACTGTACCCATCCCTCCTTCATCTCCCTCCAGCATTGTGTTTCTGG
AAGGAGTCAACACCAACAGCTCTGACCTGGGCAGCCTTCCTGAGAAAATGCAGCCATTCTCCTCCTGTTGGCCT
TTCCTTCTGACCCCTGGGGCTGGGACAGAGGAGATCATCGGGGGCCATGAGGCCAAGCCCCACTCCCGCCCCCTACA
TGGCCTTTGTTTCAGTTTCTGCAAGAGAAGAGTCGGAAGAGGTGTGGCGGCATCCTAGTGAGAAAGGACTTTGTGC
TAGCTGCTCACTGCCAGGGAAGCTCCATAAATGTCACCTTGGGGGCCCACAATATCAAGGAACAGGAGCGGA
GCAGTTTATCCCTGTGAAAAGACCCATCCCCATCCAGCCTATAATCCTAAGAACTTCTCCAACGACATCA
TACTGCAGCTGGAGAGAAAAGGCCAAGTGGACCACAGCTGTGCGGCCTCTCAGGCTACCTAGCAGCAAGGCC
AAGTGAAGCCAGGGCAGCTGTGCAGTGTGGCTGGCTGGGGTTATGTCTCAATGAGCACTTTAGCAACCACACTGC
AAGTGTGCTGACAGTGCAGAAGGACTGCCAGTGTGAACGTCTCTTCCATGGCAATTACAGCAGAGCCACTG
TTGTGTGGGGATCCAAAGAAGACACAGACCGGTTTCAAGGGGGACTCCGGGGGGCCCCCTCGTGTGTAAGG
TAGCCCAAGGTATTCTCTCCTATGAAACAAAAAGGGACACCTCCAGGAGTCTACATCAAGGTCTCACACT
GCCCTGGATAAAGAGAACAATGAAGCGCCTCTAACAGCAGGCATGAGACTAACCTTCCTCTGGGCCTGACC
TCTCTGGGACAGAGGCAAGAATCCCAAGGGGTGGGCAGTCGGGGTTGCAGGACTGTAATAAATGGATCTCTGGT
GIAAATATGACTG

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FIGURE 880

MQPFLLLLAFLLTPGAGTEEIIGGHEAKPHSRPYMAFVQFLQEKSRKRCGGILVRKDFVLTAHCQGSSINVTLG
AHNIKEQERTQQFIPVKRPIHPAYNPKNFSNDIMLLQLERKAKWTTAVRPLRLPSSKAQVKPGQLCSVAGWGYV
SMSTLATTLQEVLLTVQKDCQCERLFHGNYSRATEICVGDPKKTQTGFKGDSGGPLVCKDVAQGILSYGNKKGTP
PGVYIKVSHFLPWIKRTMKRL

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FIGURE 881A

CCCGGATTTTGC GGGGTTCTGTCGGGCCTGTGGAAGAAGCCCCGCCACGGACTTCGGCAGAGGTAGAGCAGGTCTC
TCTGCAGCCATGTCGGCCAAGGCAATTTTCAGAGCAGACGGGCAAAGAACTCCTTTACAAGTTTCATCTGTACCACC
TCAGCCATCCAGAATCGGTTCAAGTATGCTCGGGTCACTCCTGACACAGACTGGGCCCCGTTGCTGCAGGACCAC
CCCTGGCTGCTCAGCCAGAACTTGGTAGTCAAGCCAGACCAGCTGATCAAACGTCGTGGAAGAACTTGGTCTCGTT
GGGGTCGACCTCACTCTGGATGGGGTCAAGTCCTGGCTGAAGCCACGGCTGGGACAGGAAGCCACAGTTGGCAAG
GCCACAGGCTTCCTCAAGAACTTTCTGATCGAGCCCTTCGCCCCCACAGTCAGGCTGAGGAGTTCTATGTCTGC
ATCTATGCCACCCGAGAAGGGGACTACGTCTGTTCACCACGAGGGGGGTGTGGACGTGGGTGATGTGGACGCC
AAGGCCCAGAAGCTGCTTGTGGCGTGGATGAGAACTGAATCCTGAGGACATCAAAAAACACCTGTTGGTCCAC
GCCCCTGACGACAAGAAAGAAATTCTGGCCAGTTTTATCTCCGGCCTCTTCAATTTCTACGAGGACTTGTACTTC
ACCTACCTCGAGATCAATCCCTTGTAGTGACCAAAGATGGAGTCTATGTCCTTGACTTGGCGGCCAAGGTGGAC
GCCACTGCCGACTACATCTGCAAAGTGAAGTGGGGTGACATCGAGTTCCCTCCCCCTTCGGGCGGGTGGCATAT
CCAGAGGAAGCCTACATTGCAGACCTCGATGCCAAAAGTGGGGCAAGCCTGAAGCTGACCTTGCTGAACCCCAA
GGGAGGATCTGGACCATGGTGGCCGGGGGTGGCGCCTCTGTCTGTACAGCGATACCATCTGTGATCTAGGGGGT
GTCAACGAGCTGGCAAACCTATGGGGAGTACTCAGGCGCCCCAGCGAGCAGCAGACCTATGACTATGCCAAGACT
ATCCTCTCCCTCATGACCCGAGAGAAGCACCAGATGGCAAGATCCTCATCATTGGAGGCAGCATCGCAAACCTTC
ACCAACGTGGCTGCCACGTTCAAGGGCATCGTGAGAGCAATTCGAGATTACCAGGGCCCCCTGAAGGAGCACGAA
GTCACAATCTTTGTCCGAAGAGGTGGCCCCAACTATCAGGAGGGCTTACGGGTGATGGGAGAAGTCGGGAAGACC
ACTGGGATCCCCATCCATGTCTTTGGCACAGAGACTCACATGACGGCCATTGTGGGCATGGCCTGGGCACCGGCC
ATCCCCAACAGCCACCCACAGCGGCCCACTGCAAACCTTTCTCCTCAACGCCAGCGGGAGACATCGACTCCA
GCCCCCAGCAGGACAGCATCTTTTTATGAGTCCATGGTTCGATGAGGTGAGGCGCGATGAGGTGGCGCCTGCAAAG
AAGGCCAAGCCTGCCATGCCACAAGATTAGTCCCAAGTCCAAGATCCCTGCAAGGAAGAGCACCACCTCTTC
AGCCGCCACACCAAGGCCATTGTGTGGGGCATGCAGACCCGGGCGCTGCAAGGCATGCTGGACTTTGACTATGTC
TGCTCCCGAGACGAGCCCTCAGTGGCTGCCATGGTCTATCCTTTCACTGGGGACCACAAGCAGAAGTTTTACTGG
GGGCACAAAGAGATCCTGATCCCTGTCTTCAAGAACATGGCTGATGCCATGAGGAAGCACCAGGAGGTAGATGTG
CTCATCAACTTTGCCTCTCTCCGCTCTGCCTATGACAGCACCATGGAGACCATGAACTATGCCAGATCCGGACC
ATCGCCATCATAGCTGAAGGCATCCCTGAGGCCCTCACGAGAAAGCTGATCAAGAAGGCGGACCAGAAGGGAGTG
ACCATCATCGGACCTGCCACTGTTGGAGGCATCAAGCCTGGGTGCTTTAAGATTGGCAACACAGGTGGGATGCTG
GACAACATCCTGGCCTCCAACTGTACCCCCAGGCAGCTGTGGCCTATGTCTCAGTTCCGGAGGCATGTCCAAC
GAGCTCAACAATATCATCTCTCGGACCACGGATGGCGTCTATGAGGGCGTGGCCATTGGTGGGGACAGGTACCCG
GGCTCCACATTATGATCATGTGTTACGCTATCAGGACACTCCAGGAGTCAAAATGATTGTGGTTCTTGGAGAG
ATTGGGGGCACTGAGGAATATAAGATTTCCCGGGGCATCAAGGAGGGCCGCTCACTAAGCCCATCGTCTGCTGG
TGCATCGGGACGTGTGCCACCATGTTCTCCTCTGAGGTCCAGTTTGGCCATGCTGGAGCTTGTGCCAACAGGCT
TCTGAACTGCAGTAGCCAAGAACCAGGCTTTGAAGGAAGCAGGAGTGTGTTGTGCCCGGAGCTTTGATGAGCTT
GGAGAGATCATCAGTCTGTATACGAAGATCTCGTGGCCAATGGAGTCATTGTACCTGCCAGGAGGTGCCGCCC
CCAACCGTGCCCATGGACTACTCCTGGGCCAGGGAGCTTGGTTGATCCGCAAACCTGCCTCGTTTCATGACCAGC
ATCTGCGATGAGCGAGGACAGGAGCTCATCTACGCGGCATGCCATCACTGAGGTCTTCAAGGAAGAGATGGGC
ATTGGCGGGGCCCTCGGCCTCCTCTGGTTCCAGAAAAGTTGCCTAAGTACTCTTGCCAGTTTCATTGAGATGTGT
CTGATGGTGACAGCTGATCACGGGCCAGCCGTCTCTGGAGCCACAACACCATCATTTGTGCGCGCACCGCGGTG
GAGCTGGTCTCCAGCCTCACCTCGGGGCTGCTCACCATCGGGGATCGGTTTGGGGGTGCCTTGGATGCAGCAGCC
AAGATGTTTCAGTAAAGCCTTTGACAGTGGCATTATCCCCATGGAGTTTGTGAACAAGATGAAGAAGGAAGGGAAG
CTGATCATGGGCATTGGTCACCGAGTGAAGTCGATAAACAACCCAGACATGCGAGTGCAGATCCTCAAAGATTAC
GTCAGGCAGCACTTCCCTGCCACTCCTCTGCTCGATTATGCACTGGAAGTAGAGAAGATTACCACCTCGAAGAAG
CCAAATCTTATCCTGAATGTAGATGGTCTCATCGGAGTCGCATTTGTAGACATGCTTAGAACTGTGGGTCCCTTT
ACTCGGGAGGAAGCTGATGAATATATTGACATTGGAGCCCTCAATGGCATCTTTGTGCTGGGAAGGAGTATGGGG
TTCATTGGACACTATCTTGATCAGAAGAGGCTGAAGCAGGGGCTGTATCGTCATCCGTGGGATGATATTTTCATAT
GTTCTTCCGGAACACATGAGCATGTAAACAGAGCCAGGAACCCTACTGCAGTAACTGAAGACAAGAACTCTTCCC
CCAAGAAAAAGTGTGACAGAGCTGGCAGTGGAGCCTGCTTTATTTAGCAGGGGCTGGAATGTAAACAGCCACTG
GGGTACAGGCACCGAAGACCAACATCCACAGGCTAACACCCCTTCAGTCCACACAAAGAAGCTTCATATTTTTTT

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FIGURE 881B

TATAAGCATAGAAATAAAAACCAAGCCAATATTTGTGACTTTGCTCTGCTACCTGCTGTATTTATTATATGGAAG
CATCTAAGTACTGTCAGGATGGGGTCTTCCTCATTGTAGGGCGTTAGGATGTTGCTTTCTTTTCCATTAGTTAA
ACATTTTTTTCTCCTTTGGAGGAAGGGAATGAAACATTTATGGCCTCAAGATACTATAACATTTAAAGCACCCCAA
TGTCTCTCTTTTTTTTTTTTTTTTACTTCCCTTGCTTCTTCCTTATATAACATGAAGAACATTGTATTAATCTGAT
TTTTAAAGACTTTTTGTATGTTACGTGTTAAGGGCTTGTGTTGGTATCCCACTGAAATGTTCTGTGTTGCAGACCA
GAGTCTGTTTATGTCAGGGGGAGGGGGCCATTGCATCCTTAGCCATTGTCACAAAATATGTGGAGTAGTAACTTA
ATATGTAAAGTTGTAACATACATACATTTAAAATGGAAATGCAGAAAGCTGTGAAATGTCTTGTGTCTTATGTTT
TCTGTATTTATGCAGCTGATTTGTCTGTCTGTAAGTGTGGGTCCAAGGACTCCTAACTACTTTGCATCTG
TAATCCACAAAGATTCTGGGCAGCTGCCACCTCAGTCTCTTCTCTGTATTATCATAGTCTGGTTTAAATAAACTA
TATAGTAACAGGAATTCCTGCA

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FIGURE 882

MSAKAISEQTGKELLYKFICTTSAIQNRFKYARVTPD TDWARLLQDHPWLLSQNLVVKPDQLIKRRGKLGVLGVGD
LTL DGVKSWLKPRLGQEATVGKATGFLKNFLIEPFAPHSQAEEFYVCIYATREGDYVLFHHEGGVDVGDVDAKAQ
KLLVGVDEKLN PEDIKKHLLVHAPDDKKEILASFISGLFN FYEDLYFTYLEINPLVVT KDGVYVLDLAAKV DATA
DYICKVKWGDIEFPPPFGRVAYPEEAYIADLDAKSGASLKLTLNPKGRIWTMVAGGGASVVYSDTICDLGGVNE
LAN YGEYSGAPSEQQTYDYAKTILSLMTREKHPDGKILII GGSIANFTNVAATFKGIVRAIRDYQG PLKEHEVTI
FVRRGGPNYQEGLRVMGEVGKTTGIP IHVFGTETHMTAIVGMAWAPAIPNQPTAAHTANFL LNAQRETSTPAPS
RTASFYESMVDEVRAD EVAPAKKAKPAMPQDSVPSRSLQ GKSTTLFSRHTKAI VWGMQTRAVQGM LDFDYVCSR
DEPSVAAMVYPFTGDHKQKFYWG HKEILIPVFKNMADAMRKHPEVDVLINFASLRSAYDSTMETMNYAQIRTI AI
IAEGIP EALTRKLIK KADQKGTIIIGPATVGGIKPGCFKIGNTGGMLDNILASKLYPQA AVAYVSRSGGMSNELN
NII SRTTDGVYEGVAIGGDRYPGSTFMDHVLRYQDTPGVKMIVVLGEIGGTEEYKISRGIKEGRLTKPIVCWCIG
TCATMFSSEVQFGHAGACANQASETAVAKNQALKEAGVFVPSFDELGEIIQSVYEDLVANGVIVPAQEVPPPTV
PMDYSWARELGLIRKPASFMTSICDERGQELIYAGMPITEVFKEEMGIGGALGLLWFQKRLPKYSCQFIEMCLMV
TADHGPAVSGAHNTI ICARTAVELVSSLTSGLLTIGDRFGGALDAAAKMFSKAFDSGIIPMEFVNKMKKEGKLIM
GIGHRVKSINNPDMRVQILKDYVRQHFPATPLLDYALEVEKITTSKKPNLILNVDGLIGVAFVDMLRNCGSF TRE
EAD EYIDIGALNGIFVLGRSMGFI GHYLDQKRLKQGLYRHPWDDISYVLP EHMSM

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FIGURE 883

GGCACGAGGGAGAGAGAACTAGTCTCGAGTTTTTTTTTTTTTTTTTGTGCAGGTAGGAAATGTCTTTATTATTGG
CCTTGAGTCATCATGTAGTGTCTGACATAGGTTACGTGTCCAGAGGATCTGCCTGGCACACGCTAGCTACCCCTG
CCCCTGGAGCAGCCCCCTCTGGCCGACGCCAGGCCTTTGTCCATCATGCCAGGGAAGCCAACCCACCATCCAC
AAGTTCATGCTAGGGGTGCTGAGGAACAAGGCTGTCTAGGATTGGACCCTCCATCCTGGACAGGGGTCTGGGG
AGGATGAGGCTGAGGCCTGGATGATCAGTCTCTTTTTGGTTTCATGATCATTTAAAAAACAGAAAAGACAAACAT
TTCACAGTCTTTAAAAAATAGAAGTCTGAGGAGAGAAGCCAGAGTCTGGGCCCCGGGAGGCCCTCGAGGCCTC
AGCATTCCCTGTCCCTTGAGGTCTGTCTGCAGGCCTGGCCACAGCACACGTGGCCCGTTATTGGAGCCAGGCCTA
CACCCACGCAACCATGTCCAAGGGACCTGCAGTTGGTATTGATCTTGGCACCACCTACTCTTGTGTGGGTGTTTT
CCAGCACGGAAGTCTGAGATAATTGCCAATGATCAGGGAACCGAACCACTCCAAGCTATGTCGCCTTTACGGA
CACTGAACGGTTGATCGGTGATGCCGAAAGAATCAAGTTGCAATGAACCCACCAACACAGTTTTTGATGCCAA
ACGTCTGATTGGACGCAGATTTGATGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAA
TGATGCTGGCAGGCCCAAGGTCCAAGTAGAATACAAGGGAGAGACCAAAAGCTTCTATCCAGAGGAGGTGTCTTC
TATGGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACCAATGCTGTGGTCACAGT
GCCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAAGATGCTGGAACCTATTGCTGGTCTCAATGTACTTAG
AATTATTAATGAGCCAACCTGCTGCTGCTATTGCTTACGGCTTAGACAAAAAGGTTGGAGCAGAAAGAAACGTGCT
CATCTTTGACCTGGGAGGTGGCAGTTTTGATGTGTCAATCCTCACTATTGAGGATGGAATCTTTGAGGTCAAGTC
TACAGCTGGAGACACCCACTTGGGTGGAGAAGATTTGACAACCGAATGGTCAACCATTTTATTGCTGAGTTTAA
GCGCAAGCATAAGAAGGACATCAGTGAGAACAAGAGAGCTGTAAGACGCCTCCGTACTGCTTGTGAACGTGCTAA
GCGTACCTCTCTTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTC
CATTACCCGTGCCCCGATTTGAAGAACTGAATGCTGACCTGTTCCGTGGCACCCTGGACCCAGTAGAGAAAGCCCT
TCGAGATGCCAACTAGACAAGTCACAGATTCATGATATTGTCCTGGTTGGTGGTTCTACTCGTATCCCCAAGAT
TCAGAAGCTTCTCCAAGACTTCTTCAATGGAAAAGAACTGAATAAGAGCATCAACCCTGATGAAGCTGTTGCTTA
TGGTGCAGCTGTCCAGGCAGCCATCTTGTCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTCTTGGATGT
CACTCCTCTTTCCCTTGGTATTGAAACTGCTGGTGGAGTCATGACTGTCTCATCAAGCGTAATACCACCATTC
TACCAAGCAGACACAGACCTTCACTACCTATTCTGACAACCAGCCTGGTGTGCTTATTCAGGTTTATGAAGGCGA
GCGTGCCATGACAAAGGATAACAACCTGCTTGGCAAGTTTGAAGTCAAGGCATACCTCCTGCACCCCGAGGTGT
TCCTCAGATTGAAGTCACTTTTGACATTGATGCCAATGGTATACTCAATGTCTCTGCTGTGGACAAGAGTACGGG
AAAAGAGAACAAGATTACTATCACTAATGACAAGGGCCGTTTGAAGCAAGGAAGACATTGAACGTATGGTCCAGGA
AGCTGAGAAGTACAAAGCTGAAGATGAGAAGCAGAGGGACAAGGTGTCATCCAAGAATTCATTGAGTCCATGC
CTTCAACATGAAAGCAACTGTTGAAGATGAGAACTTCAAGGCAAGATTAACGATGAGGACAAAAGAGATTCT
GGACAAGTGTAATGAAATTATCAACTGGCTTGATAAGAATCAGACTGCTGAGAAGGAAGAATTTGAACATCAACA
GAAAGAGCTGGAGAAAGTTTGAACCCCATCATCACCAGCTGTACCAGAGTGCAGGAGGCATGCCAGGAGGAAT
GCCTGGGGGATTCTCTGGTGGTGGAGCTCCTCCCTCTGGTGGTGTCTCCTCAGGGCCCCACCATTGAAGAGGTTGA
TTAAGCCAACCAAGTGTAGATGTAGCATTGTTCCACACATTTAAACATTTGAAGGACCTAAATTCGTAGCAAT
TCTGTGGCAGTTTTAAAAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATAT
GCACAGGGGAAGGAAATAACATTGCACCTTTATAAACACTGTATTGTAAGTGGAAGATGCAATGTCTTAAATAAAA
CTATTTAAATTTGGCACCATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 884

MSKGPAVGIDLGTTYSVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDKRLIG
RRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYF
NDSQRQATKDAGTIAGLNLRIINEPTAAAIAYGLDKKVGAEARNVLIFDLGGGTFDVSILTIEDGIEEVKSTAGD
THLGGEDFDNRMVNHFAIEFKRKHKKDI SENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRA
FFELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGA
* * LSGDKSENVQDLLLDVTPLSLGIETAGGVMTVLIKRNNTTIPTKQTQTFTTYSNQPGLIQVYEGERAMT
* * NLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVS AVDKSTGKENKITITNDKGRLSKEDIERMVQEAKEY
AAEDEKQDKVSSKNSLESYAFNMKATVEDEKLQKINDEDKQKILDKCNEIINWLDKNQTAEKEEFHQKELE
P * CNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD

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FIGURE 885

TGAAGATCAGCTATTAGAAGAGAAAGATCAGTTAAGTCCTTTGGACCTGATCAGCTTGATACAAGAACTACTGAT
TTCAACTTCTTTGGCTTAATTCTCTCGGAAACGATGAAATATACAAGTTATATCTTGGCTTTTCAGCTCTGCATC
GTTTTGGGTTCTCTTGGCTGTTACTGCCAGGACCCATATGTAAAAGAAGCAGAAAACCTTAAGAAATATTTTAAT
GCAGGTCATTGAGATGTAGCGGATAATGGAACTCTTTTCTTAGGCATTTTGAAGAATTGGAAAGAGGAGAGTGAC
AGAAAAATAATGCAGAGCCAAATTGTCTCCTTTTACTTCAAACCTTTTAAAAACCTTAAAGATGACCAGAGCATC
CAAAAGAGTGTGGAGACCATCAAGGAAGACATGAATGTCAAGTTTTTCAATAGCAACAAAAAGAAACGAGATGAC
TTCGAAAAGCTGACTAATTATTCGGTAAGTGAATGTCCAACGCAAAGCAATACATGAAGTCAATCCAAGTG
ATGGCTGAAGTGTGCCAGCAGCTAAAACAGGGAAGCGAAAAAGGAGTCAGATGCTGTTTCAAGGTCGAAGAGCA
TCCCAGTAAATGGTTGTCCTGCCTGCAATATTTGAATTTTAAATCTAAATCTATTTATTAATATTTAACATTATTT
ATATGGGGAATATATTTTGTAGACTCATCAATCAAATAAGTATTTATAATAGCAACTTTTGTGTAATGAAAATGAA
TATCTATTAATATATGTATTATTTATAATTCCTATATCTGTGACTGTCTCACTTAATCCTTTGTTTTCTGACTA
ATTAGGCAAGGCTATGTGATTACAAGGCTTTATCTCAGGGGCCAACTAGGCAGCCAACCTAAGCAAGATCCCATG
GGTTGTGTGTTTATTTCACTTGATGATACAATGAACACTTATAAGTGAAGTGATACTATCCAGTTACTGCCGGTT
TGAAAATATGCCTGCAATCTGAGCCAGTGCTTTAATGGCATGTCAGACAGAAGTGAATGTGTCAGGTGACCCTG
ATGAAAACATAGCATCTCAGGAGATTTTCATGCCTGGTGCTTCCAAATATTGTTGACAAGTGTGACTGTACCCAAA
TGAAAAGTAAGTCAATTTGTTAAAATTATCAATATCTAATATATATGAATAAAGTGTAAAGTTCACAAGT

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FIGURE 886

MKYTSYILAFQLCIVLGS LGCYCQDPYVKEAENLK KYFNAGHSDVADNGTLFLGILKNWKEESDRKIMQSQIVSF
YFKLFKNFKDDQSIQKSVETIKEDMNVKFFNSNKKKRDDFEKLTNYSVTDLNVQRKAIHELIQVMAELSPAAGTG
KRKRSQMLFQGRRASQ

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FIGURE 887

GGACTGTTAACTGTTTCTGGCAAACATGAAGTCAGGCCTCTGGTATTTCTTTCTCTTCTGCTTGCGCATTAAAGT
TTTAACAGGAGAAATCAATGGTTCTGCCAATTATGAGATGTTTATATTTACAACGGAGGTGTACAAATTTTATG
CAAATATCCTGACATTGTCCAGCAATTTAAATGTCAGTTGCTGAAAGGGGGCAAATACTCTGCGATCTCACTAA
GACAAAAGGAAGTGAAACACAGTGTCCATTAAAGAGTCTGAAATTCTGCCATTCTCAGTTATCCAACAACAGTGT
CTCTTTTTTTCTATACAACCTTGGACCATTCTCATGCCAATTACTTCTGCAACCTATCAATTTTTGATCCTCC
TCCTTTTAAAGTAACCTTTACAGGAGGATATTTGCATATTTATGAATCACAACCTTTGTTGCCAGCTGAAGTTCTG
GTTACCCATAGGATGTGCAGCCTTTGTTGTAGTCTGCATTTTGGGATGCATACTTATTTGTTGGCTTACAAAAA
GAAGTATTCATCCAGTGTGCACGACCTTAACGGTGAATACATGTTTCATGAGAGCAGTGAACACAGCCAAAAAATC
TAGACTCACAGATGTGACCCTATTAATATGGAACCTCTGGCACCCAGGCATGAAGCACGTTGGCCAGTTTCTCTCAA
CTTGAAGTGCAAGATTCTCTTATTTCCGGGACCACGGAGAGTCTGACTTAACTACATACATCTTCTGCTGGTGT
TTGTTCAATCTGGAAGAATGACTGTATCAGTCAATGGGGATTTTAAACAGACTGCCTTGGTACTGCCGAGTCTCT
CAAAACAAACACCCTCTTGCAACCAGCTTTGGAGAAAGCCCAGCTCCTGTGTGCTCACTGGGAGTGGAATCCCTG
TCTCCACATCTGCTCCTAGCAGTGCATCAGCCAGTAAACAAACACATTTACAAGAAAAATGTTTTAAAGATGCC
AGGGGTACTGAATCTGCAAAGCAAATGAGCAGCCAAGGACCAGCATCTGTCCGCATTTCACTATCATACTACCTC
TTCTTTCTGTAGGGATGAGAATTCCTCTTTTAAATCAGTCAAGGGAGATGCTTCAAAGCTGGAGCTATTTTATTTT
TGAGATGTTGATGTGAACGTGTACATTAGTACATACTCAGTACTCTCCTTCAATTGCTGAACCCAGTTGACCATT
TTACCAAGACTTTAGATGCTTTCTTGTGCCCTCAATTTTCTTTTAAAAATACTTCTACATGACTGCTTGACAGC
CCAACAGCCACTCTCAATAGAGAGCTATGTCTTACATTCTTCTCTGCTCAATAGTTTTATATATCTATGC
ATACATATATACACACATATGTATATAAAATTCATAATGAATATATTTGCCTATATTCTCCCTACAAGAATATTT
TTGCTCCAGAAAGACATGTTCTTTTCTCAAATTCAGTTAAATGGTTTACTTTGTTCAAGTTAGTGGTAGGAAAC
ATTGCCCGGAATTGAAAGCAAATTTATTTTATTATCCTATTTTCTACCATTATCTATGTTTTCATGGTGCTATTA
ATTACAAGTTTAGTTCTTTTTGTAGATCATATTAATTAAGTGAACAAATCATCTTTAATGGGCCAGCATTCTCA
TGGGGTAGAGCAGAATATTCATTTAGCCTGAAAGCTGCAGTTACTATAGGTTGCTGTCAGACTATACCCATGGTG
CCTCTGGGCTTGACAGGTCAAATGGTCCCCATCAGCCTGGAGCAGCCCTCCAGACCTGGGTGGAATTCAGGGT
TGAGAGACTCCCTGAGCCAGAGGCCACTAGGTATTCTTGCTCCCAGAGGCTGAAGTCACCCTGGGAATCACAGT
GGTCTACCTGCATTTCATAATTCAGGATCTGTGAAGAGCACATATGTGTCAGGGCACAATTCCTCTCATAAAAA
CCACACAGCCTGGAAATTGGCCCTGGCCCTTCAAGATAGCCTTCTTTAGAATATGATTTGGCTAGAAAGATTCTT
AAATATGTGGAATATGATTATTCTTAGCTGGAATATTTTCTCTACTTCTGTCTGCATGCCCAAGGCTTCTGAAG
CAGCCAATGTGATGCAACAACATTTGTAACCTTAGGTAACTGGGATTATGTTGTAGTTTAAACATTTTGTAACT
GTGTGCTTATAGTTTACAAGTGAGACCCGATATGTCATTATGCATACTTATATTATCTTAAGCATGTGTAATGCT
GGATGTGTACAGTACAGTACTTAACTTGTAAATTTGAATCTAGTATGGTGTCTGTTTTCTGTTTTCTGAGTACTTGGACAAC
CTGACTGGCTTTGCACAGGTGTTCCCTGAGTTGTTTGCAGGTTTCTGTGTGTGGGGTGGGGTATGGGGAGGAGAA
CCTTCATGGTGGCCACCTGGCCTGGTGTCCAAGCTGTGCCTCGACACATCCTCATCCCAAGCATGGGACACCT
CAAGATGAATAATAATTACAAAATTTCTGTGAAATCAAATCCAGTTTTAAGAGGAGCCACTTATCAAAGAGATT
TTAACAGTAGTAAGAAGGCAAAGAATAAACATTTGATATTCAGCAACTGAAAAAAAAA

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FIGURE 888

MKSGLWYFFLFCLRIKVL TGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQILCDLTKTKGSGNTV
SIKSLKFCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPFKVTLTGGYLHIYESQLCCQLKFWLPICAAF
VVVCILGCILICWLTKKKYSSSVHDPNGEYMFMRVNTAKKSRLTDVTL

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FIGURE 889

GGCACGAGGGTCCGCAAGCCCGGCTGAGAGCGCGCCATGGGGCAGGCGGGCTGCAAGGGGCTCTGCCTGTGCTG
TTCGACTACAAGACCGAGAAGTATGTCATCGCCAAGAACAAGAAGGTGGGCCTGCTGTACCGGCTGCTGCAGGCC
TCCATCCTGGCGTACCTGGTTCGTATGGGTGTTTCTGATAAAGAAGGGTTACCAAGACGTCGACACCTCCCTGCAG
AGTGCTGTATCACCAAAAGTCAAGGGCGTGGCCTTCACCAACACCTCGGATCTTGGGCAGCGGATCTGGGATGTC
GCCGACTACGTCATTCCAGCCCAGGGAGAGAAGCTCTTTTTTGTGGTCACCAACCTGATTGTGACCCCCAACCAG
CGGCAGAACGTCTGTGCTGAGAATGAAGGCATTCTGATGGCGCGTGCTCCAAGGACAGCGACTGCCACGCTGGG
GAAGCGGTTACAGCTGGAAACGGAGTGAAGACCGGCCGCTGCCTGCGGAGAGGGAACTTGGCCAGGGGCACCTGT
GAGATCTTTGCCTGGTGGCCGTTGGAGACAAGCTCCAGGCCGGAGGAGCCATTCTGAAGGAGGCCGAAGACTTC
ACCATTTTCATAAAGAACCACATCCGTTTTCCCAAATTCAACTTCTCCAAAAACAATGTGATGGACGTCAAGGAC
AGATCTTTCTGAAATCATGCCACTTTGGCCCCAAGAACCCTACTGCCCCATCTTCCGACTGGGCTCCATCGTC
CGCTGGGCCGGGAGCGACTTCCAGGATATAGCCCTGCGAGGTGGCGTGATAGGAATTAATATTGAATGGAAGTGT
GATCTTGATAAAGCTGCCTCTGAGTGCCACCCTCACTATTCTTTTAGCCGCTCTGGACAATAAACTTTCAAAGTCT
GTCTCCTCCGGGTACAACCTTCAGATTTGCCAGATATTACCGAGACGCAGCCGGGGTGGAGTTCCGCACCCTGATG
AAAGCCTACGGGATCCGCTTTGACGTGATGGTGAACGGCAAGGGTGCTTTCTTCTGCGACCTGGTACTCATCTAC
CTCATCAAAAAGAGAGAGTTTTACCGTGACAAGAAGTACGAGGAAGTGAGGGGCCTAGAAGACAGTTCCCAGGAG
GCCGAGGACGAGGCATCGGGGCTGGGGCTATCTGAGCAGCTCACATCTGGGCCAGGGCTGCTGGGGATGCCGGAG
CAGCAGGAGCTGCAGGAGCCACCCGAGGCCAAGCGTGGAAGCAGCAGTCAGAAGGGGAACGGATCTGTGTGCCCCA
CAGCTCCTGGAGCCCCACAGGAGCACGTGAATTGCCTCTGCTTACGTTTACGGCCCTGTCTTAAACCCAGCCGTCT
AGCACCCAGTGATCCCATGCCTTTGGGAATCCCAGGATGCTGCCCAACGGGAAATTTGTACATTGGGTGCTATCA
ATGCCACATCACAGGGACCAGCCATCACAGAGCAAAGTGACCTCCACGTCTGATGCTGGGGTTCATCAGGACGGAC
CCATCATGGCTGTCTTTTTGCCCCACCCCTGCCGTCAGTTCTTCTTTCTCCGTGGCTGGCTTCCCGCACTAGG
GAACGGGTTGTAAATGGGGAACATGACTTCCCTCCGGAGTCCTTGAGCACCTCAGCTAAGGACCGCAGTGCCCTG
TAGAGTTCTTAGATTACCTCACTGGGAATAGCATTGTGCGTGTCCGGAAAAGGGCTCCATTTGGTTCCAGCCCAC
TCCCCTCTGCAAGTGCCACAGCTTCCCTCAGAGCATACTCTCCAGTGGATCCAAGTACTCTCTCTCTAAAGACA
CCACCTTCTGCCAGCTGTTTGGCCCTTAGGCCAGTACACAGAATTAAAGTGGGGGAGATGGCAGACGCTTTCTGG
GACCTGCCCAAGATATGTATTCTCTGACACTCTTATTGGTGCATAAAACAATAAATGGTGTCAATTTCAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 890

MGQAGCKGLCLSLFDYKTEKYVIAKNKKVGLLYRLLQASILAYLVVWVFLIKKGYQDVDTSLSQSAVITKVKGVAF
TNTSDLGQRIWDVADYVIPAQGENVFFVVTNLIVTPNQRQNVCAENEGIPDGACSKDSDCHAGEAVTAGNGVKTG
RCLRRGNLARGTCEIFAWCPLETSSRPEEPFLKEAEDFTIFIKNHIRFPKFNF SKNNVMDVKDRSFLKSCHFGPK
NHYCPIFRLGSIVRWAGSDFQDIALRGGVIGINIEWNCDLKAASECHPHYSFSRLDNKLSKSVSSGYNFRFARY
AAGVEFRTLKAYGIRFDVMVNGKGAFCDLVLIYLIKKREFYRDKKYEEVRGLEDSSQEADEASGLGLSE
CPGLLGMPEQQELQEPPEAKRGSSSQKNGSVCPQLLEPHRST

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FIGURE 891

AATTGGAGGAGTTGTTGTTAGGCCGTCCCGGAGACCCGGTCGGGAGGGAGGAAGGTGGCAAGATGGTGTGGAAA
GCACTATGGTGTGTGTGGACAACAGTGAGTATATGCGGAATGGAGACTTCTTACCCACCAGGCTGCAGGCCCAGC
AGGATGCTGTCAACATAGTTTGTTCATTCAAAGACCCGAGCAACCCTGAGAACAACGTGGGCCTTATCACACTGG
CTAATGACTGTGAAGTGCTGACCACACTACCCCCAGACACTGGCCGTATCCTGTCCAAGCTACATACTGTCCAAC
CCAAGGGCAAGATCACCTTCTGCACGGGCATCCGCGTGGCCCATCTGGCTCTGAAGCACCGACAAGGCAAGAATC
ACAAGATGCGCATCATTGCCCTTTGTGGGAAGCCCAGTGGAGGACAATGAGAAGGATCTGGTGAAACTGGCTAAAC
GCCTCAAGAAGGAGAAAAGTAAATGTTGACATTATCAATTTTGGGGAAAGAGGAGGTGAACACAGAAAAGCTGACAG
CCTTTGTAAACACGTTGAATGGCAAAGATGGAACCGGTTCTCATCTGGTGACAGTGCCTCCTGGGCCCAGTTTGG
CTGATGCTCTCATCAGTTCTCCGATTTTGGCTGGTGAAGGTGGTGCCATGCTGGGTCTTGGTGCCAGTGACTTTG
AATTTGGAGTAGATCCCAAGTGCTGATCCTGAGCTGGCCTTGGCCCTTCGTGTATCTATGGAAGAGCAGCGGCAGC
GGCAGGAGGAGGAGGCCCGCGGGCAGCTGCAGCTTCTGCTGCTGAGGCCGGGATTGCTACGACTGGGACTGAAG
ACTCAGACGATGCCCTGCTGAAGATGACCATCAGCCAGCAAGAGTTTGGCCGCACTGGGCTTCTTGACCTAAGCA
GTATGACTGAGGAAGAGCAGATTGCTTATGCCATGCAGATGTCCCTGCAGGGAGCAGAGTTTGGCCAGGCGGAAT
CAGCAGACATTGATGCCAGCTCAGCTATGGACACATCTGAGCCAGCCAAGGAGGAGGATGATTACGACGTGATGC
AGGACCCCGAGTTCCTTCAGAGTGTCTAGAGAACCTCCAGGTGTGGATCCCAACAATGAAGCCATTTCGAAATG
CTATGGGCTCCCTGGCCTCCCAGGCCACCAAGGACGGCAAGAAGGACAAGAAGGAGGAAGACAAGAAGTGAGACT
GGAGGGAAAGGGTAGCTGAGTCTGCTTAGGGGACTGCATGGGAAGCACGGAATATAGGGTTAGATGTGTGTTATC
TGTAACCATTACAGCCTAAATAAAGCTTGGCAACTTTT

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FIGURE 892

MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNIVCHSKTRSNPENNVLITLANDCEVLTTLTPTDTGRILSKL
HTVQPKGKITFCTGIRVAHLALKHRQGKNHKMRIIAFVGSPVEDNEKDLVKLAKRLKKEKVNVDIINFGEDEVNT
EKLTAfvNTLNKDGtGSHlVtVPPGpSLADALISSPILAGEGGAMLGLGASDFEFgVDPsADPELALALRVSMEL
EQRQRQEEEEARRAAAAASAAEAGIATTGTEDSDDALLKMTISQQEFGRtGLPDLSsmTEEEQIAYAMQMSLQGAEL
GQAESADIDASSAMDTSEPAKEEDDYDVMQDPEFLQSVLENLPgVDPNNEAIRNAMGSLASQATKDGKKDKKEED
KK

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FIGURE 893

AAGAGCTCCAGAGAGAAGTCGAGGAAGAGAGAGACGGGGTTCAGAGAGAGCGCGGGCGTGCGAGCAGCGAAAGC
GACAGGGGGCAAAGTGAGTGACCTGCTTTTGGGGGTGACCGCCGAGCGCGGGCGTGAGCCCTCCCCCTTGGGATCC
CGCAGCTGACCAGTCGCGCTGACGGACAGACAGACAGACACCGCCCCAGCCCCAGTTACCACCTCCTCCCCGGC
CGGCGGGCGGACAGTGGACGCGGGCGGCGAGCCGCGGGCAGGGGCGGAGCCCGCCCCCGAGGGCGGGGTGGAGGGG
GTCGGAGCTCGCGGGCTGCGACTGAAACTTTTCGTCCAACCTTCTGGGCTGTTCTCGCTTCGGAGGAGCCGTGGTC
CGCGCGGGGAAGCCGAGCCGAGCGGAGCCGCGAGAAGTGCTAGCTCGGGCCGGGAGGAGCCGAGCCGGAGGAG
GGGGAGGAGGAAGAAGAGAAGGAAGAGGAGAGGGGGCCGAGTGGCGACTCGGCGCTCGGAAGCCGGGCTCATGG
ACGGGTGAGGCGGCGGTGTGCGCAGACAGTGTCCAGCGCGCGCTCCCCAGCCCTGGCCCGGCTCGGGCCGG
GAGGAAGAGTAGCTCGCCGAGGCGCCGAGGAGAGCGGGCCGCCCCACAGCCGAGCCGGAGAGGGACGCGAGCCG
CGCGCCCCGGTCGGGCCTCCGAAACCATGAACTTTCTGCTGTCTTGGGTGCATTGGAGCCTTGCCTTGCTGCTCT
ACCTCCACCATGCCAAGTGCTCCAGGCTGCACCCATGGCAGAAGGAGGAGGGCAGAATCATCACGAAGTGGTGA
AGTTCATGGATGTCTATCAGCGCAGCTACTGCCATCCAATCGAGACCCTGGTGGACATCTTCCAGGAGTACCCTG
ATGAGATCGAGTACATCTTCAAGCCATCCTGTGTGCCCTGATGCGATGCGGGGGCTGCTCCAATGACGAGGGCC
TGGAGTGTGTGCCCACTGAGGAGTCCAACATCACCATGCAGATTATGCGGATCAAACCTCACCAAGGCCAGCACA
TAGGAGAGATGAGCTTCTACAGCACAAACAATGTGAATGCAGACCAAAGAAAGATAGAGCAAGACAAGAAAATC
CCTGTGGGCCTTGCTCAGAGCGGAGAAAGCATTGTGTTGTACAAGATCCGCAGACGTGTAAATGTTCTGCAAAA
ACACACACTCGCGTTGCAAGGCGAGGCAGCTTGAGTTAAACGAACGTACTTGACAGATGTGACAAGCCGAGGCGGT
GAGCCGGGCGAGGAGGAAGGAGCCTCCCTCAGGGTTTCGGGAACCAGATCTCTCTCCAGGAAAGACTGATACAGAA
CGATCGATACAGAAACCACGCTGCCGCCACCACACCATCACCATCGACAGAACAGTCCTTAATCCAGAAACCTGA
AATGAAGGAAGAGGAGACTCTGCGCAGAGCACTTTGGGTCCGGAGGGCGAGACTCCGGCGGAAGCATTCCCGGGC
GGGTGACCCAGCACGGTCCCTCTTGGAATTGGATTGCGCAATTTATTTTTCTTGCTGCTAAATCACCGAGCCCGG
AAGATTAGAGAGTTTTATTTCTGGGATTCTGTAGACACACCCACCCACATACATACATTTATATATATATATAT
TATATATATATAAAATAAATATCTCTATTTTATATATATAAAATATATATATTTCTTTTTTAAATTAACAGTGC
TAATGTTATTGGTGTCTTCACTGGATGTATTTGACTGCTGTGGACTTGAGTTGGGAGGGGAATGTTCCCACTCAG
ATCTTGACAGGGAAGAGGAGGAGATGAGAGACTCTGGCATGATCTTTTTTTTGTCCCACTTGGTGGGGCCAGGGT
CCTCTCCCCTGCCAAGAATGTGCAAGGCCAGGGCATGGGGGCAAATATGACCCAGTTTGGGAACACCGACAAA
CCCAGCCCTGGCGCTGAGCCTCTCTACCCAGGTCAGACGGACAGAAAGACAAATCACAGGTTCCGGGATGAGGA
CACCGGCTCTGACCAGGAGTTTGGGGAGCTTCAGGACATTGCTGTGCTTTGGGGATTCCCTCCACATGCTGCACG
CGCATCTCGCCCCAGGGGCACTGCCTGGAAGATTCAAGAGCCTGGGCGGCCTTCGCTTACTCTCACCTGCTTCT
GAGTTGCCCAGGAGGCCACTGGCAGATGTCCCGGCGAAGAGAAGAGACACATTGTTGGAAGAAGCAGCCCATGAC
AGCGCCCCCTTCTGGGACTCGCCCTCATCCTCTTCTTGCTCCCTTCTGGGGTGCAGCCTAAAAGGACCTATGT
CCTCACACCATTGAAACCACTAGTTCTGTCCCCCAGGAAACCTGGTTGTGTGTGTGTGAGTGGTTGACCTTCT
CCATCCCCTGGTCCTTCCCTTCCCTTCCCAGGGCACAGAGAGACAGGGCAGGATCCACGTGCCCATTTGTGGAGGC
AGAGAAAAGAGAAAGTGTTTTATATACGGTACTTATTTAATATCCCTTTTTTAATTAGAAATTAGAACAGTTAATT
TAATTAAGAGTAGGGTTTTTTTTTTCAGTATTCTTGGTTAATATTTAATTTCAACTATTTATGAGATGTATCTTT
GCTCTCTCTTGCTCTCTTATTTGTACCGTTTTTGTATATAAAATTCATGTTTCCAATCTCTCTCTCCCTGATCG
GTGACAGTCACTAGCTTATCTTGAACAGATATTTAATTTTGCTAACACTCAGCTCTGCCCTCCCCGATCCCCTGG
CTCCCCAGCACACATTCCCTTGAAAGAGGGTTTCAATATACATCTACATACTATATATATATATTGGGCAACTTGTA
TTTGTGTGTATATATATATATATATATGTTTATGTATATATGTGATCCTGAAAAATAAACATCGCTATTCTGTTTT
TTATATGTTCAAACCAAACAAGAAAAAATAGAGAATTCTACATACTAAATCTCTCTCTCTTTTTTAATTTTAAAT
TTGTTATCATTTATTTATTGGTGCTACTGTTTATCCGTAATAATTGTGGGGAAAAGATATTAACATCACGTCTTT
GTCTCTAGTGCAGTTTTTCGAGATATTCCGTAGTACATATTTATTTTTTAAACAACGACAAAGAAATACAGATATA
TCTTAAAAA

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FIGURE 894

MN^FLLSWVHWSLALLLYLHHAKWSQAAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKP
SCVPLMRCGGCSNDEGLECVPTESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQENPCGPCSERR
KHLFVQDPQTCKCSCKNTHSRCKARQLELNERTCRCDKPRR

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FIGURE 895

GTCTACACCAGCGGTGTCGCTGCCCCGAAAGTGAGAGAAGGCTGATATTGCTAGCTGGAATCCAGGCCTGGGTGCT
GCATGGTGGCGCCCCTCCCCGTGACCACCGCTGCGTTTTCTCGGGCTTTCTCTGAGGAGCTGCTCTTGTGCTGTT
TGGCCCCTGCCTACTCGGAATGGAACAAAGCATCGAACAAACAAGTGAATCCTGTTGTGCCTATCACCTGTTGA
AGTTGCCAGTCTTAAGGAAGGAATCAATTTCTTTTCGCAATAAGAGCACTGGCAAAGACTACGTCTTGTACAAGAA
TAAGAGCCGACTGAGGGCATGCAAGAATATGTGCAAGCACCAAGGAGGCCTGTTTATAAAAGATATCGAGGATTT
AGCCGGAAGTTGTTGAAATGGATGAAAACAACGGACTTTTGCTTTTAGAACTGAATCCTCCTAACCCCTGGGACT
TACAGCCCAGATCTCCTGAAGAGTTGGCTTTTGAGAGAAGTACAGATAACATATCTCACTCATGCCTGCATGGACC
TCAAGTTAGGAGACAAGAGAATGGTGTGACCCCTGGTTAATCGGTCCTGCTTTTGCCCGTGGATGGTGGTTGC
TCCATGAGCCTCCATCTGATTGGCTGGAGAGGCTGTGCCAGGCAGACCTCATTACATCAGTCATCTGCACTCAG
ACCACCTGAGTTACCCCACTGAAAAAGCTTGCTGGGAGAAGACCAGATATTCCCATTTATGTTGGAAACACAG
AAAGGCCTGTATTTTGAATCTGAATCAGAGCGGTGTCCAGTTGACTAATATCAATGTCGTGCCATTTGGAATAT
GGCAGCAGGTGGACAAAATCTTCGATTTCATGATCTTGATGGACGGTGTTCATCCTGAGATGGACACTTGCATTA
TTGTGGAGTACAAAGGTCATAAAATACTCAATATAGTAGACTGCACCAGACCCAATGGGGGAAGGCTGCCTATGA
AGGTTGCTCTAATGATGAGTGATTTTGCTGGAGGAGCATCAGGCTTTCCAATGACTTTTCAGTGGTGGAAAATTTA
CGGAGGAATGGAAAGCCCAATTCATTAACAGAAAGGAAGAAGCTCCTGAACTACAAGGCTCGGCTGGTGAAGA
ACCTGCAACCCCGAATTTATTGTCCCTTTGCTGGGTATTTTGTGGAATCTCACCCATCAGACAAGTACATCAAGG
AAACAAACACCAAAAATGACCCAAATGAACTCAACAATCTTATCAAGAAAACTCTGATGTGATAACATGGACCC
CTCGACCGGGAGCCACCCTTGATCTGGGAAGAATGCTGAAGGATCGAACAGACAGCAAGGGCATCATAGACCTC
CAGAGGGGACAAAAATTTACAAGGATTCCTGGGATTTTGAACCTTATTTGGAAATCTTGAATGCTGCTCTAGGAG
ATGAAATATTTCTTCACTCATCTGATATAAAGAATACTTCACTTGGGCTGGATTTAAAGATTACAACCTTGTGG
TCAGGATGATTGAGACAGATGAGGACTTCAATCCTTTTCTGGAGGATATGACTATTTGGTTGACTTTTATAGATT
TATCCTTTCCCAAAAGAAAGACCACAACGAGAATCCCTATGAGGAAATCCATAGCCGGGTGGATGTATCAGAC
ACGTGGTGAAGAATGGTCTACTCTGGGATGAGTTGTATATAGGATTCCAAACACGGCTCCAGCGGGATCCTGACA
TATACCATCACCTGTTTTTGAATCATTTTCAAATAAACTCCCCCTCACACCACCAACTGGAAGTCATTCTGTA
TGTGCTGTGAGCAGAATGGGCCTGCGATTTTGAAGAATGCAAACCACATGAAAATTTCAAGAATTCATGATC
TGATGCAAAATAAAAATTTATCATTACATCTTGAACCCAGGAAGCTTACAGCAAAGAGACTATGCTTTATGACGT
CAGCAATAGATAATTCCACGTTGCCCTTTGTGATTTGTATATATAGCTTACATTTGTGGATCACTACATAGCCAGA
TTCAAAAATATTTTACTTGTTCATCCACAGTTCTCTACAGAAAGAACCAATGAACCCAATAGGAACAAATCTC
TGTGGAACAAAGCATAGCTGTAGTAGATACGAATCCAATCACAGAGGAAACAGGAAGAGAAAAACATCCAAGA
CTACAGTGAACACTGGAATGGTCTGTTTTCTGTGATATTCTGATGATTAAGATGCAATTTTTCTTAGGAAAT
GTGATTGTAACTAGCATTCTGTTTTACATGTTGACATTTCTAACACACACACCACTGATTTGAACTTCAAAAT
TATTTTCTGATTATATATGCTAGGTCTGATTCTGAAGATACAAGAATTCATGGTGGAAATTTGTCTCCTGAAAT
TCTAGATTACATAATTAGAAGTGTATTATACCAACTTCTCACTTAGATTAACATCAGTGATGTTTGATTATTCTGG
TTAACCGCTCACATGCATAACAATAATGCTAGAAATTCAGGAATTATAATTTTGTGATTTATACTGTGTGGTAAA
TTATTCAGTTCTCACTGCAATAAATAATGTATATCAATGTAATGTAGGTCAGAATGTCTATGGTGAGCAAT
AAAAGATTATTTTAAATATGAAAAAAAAAAAAAAAAA

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FIGURE 896

MDENNGLLLLLELNPPNPWDLQFRSPEELAFGEVQITYLTHACMDLKLGDKRMVFD PWLIGPAFARGWLLHEPPS
DWLERLCQADLIYISHLHSDHLSYPTLKKLAGRRPDIPYVGNTERP VFWNLNQSGVQLTNINVVPFGIWQQVDK
NLRFMILMDGVHPEMDTCIIVEYKGHKILNIVDCTRPNGGRLPMKVALMMSDFAGGASGFPMTFSGGKFTEEWKA
QFIKTERKKLLNYKARLVKNLQPRIYCPFAGYFVESHPSDKYIKETNTKNDPNELNNLIKNSDVITWTPRPGAT
CRMLKDRTDSKGIIEPPEGTKIYKDSWDFEPYLEILNAALGDEIFLHSSWIKEYFTWAGFKDYNLVVRMIET
NPFPGGYDYLVDLFLDLSFPERPQREHPYEEIHSRVDVIRHVVKNGLLWDELYIGFQTRLQRPDIYHHLF
FQIKLPLTPPNWKSFLMCCEQNGPAILQECKTT

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FIGURE 897

GCAGCGCCGCGACTCGTGCGGGTAGGCGTCTGCGCTCGGTTTGAGGGCTCGGCGCGGGGTTTCCTGTTCCCTCCTT
CTGCGCGGGCTGCAGCTCGGGACTTCGGCCTGACCCAGCCCCCATGGCTTCAGAAGAGCTACAGAAAGATCTAGAA
GAGGTAAAGGTGTTGCTGGAAAAGGCTACTAGGAAAAGAGTACGTGATGCCCTTACAGCTGAAAAATCCAAGATT
GAGACAGAAATCAAGAACAAGATGCAACAGAAATCACAGAAGAAAGCAGAACTTCTTGATAATGAAAAACCAGCT
GCTGTGGTTGCTCCATTACAACGGGCTATACGGTGAAAAATCAGTAATTATGGATGGGATCAGTCAGATAAGTTT
GTGAAAATCTACATTACCTTAAGTGGAGTTCATCAAGTTCCTACTGAGAATGTGCAGGTGCATTTACAGAGAGG
TCATTTGATCTTTTGGTAAAGAATCTAAATGGGAAGAGTTACTCCATGATTGTGAACAATCTCTTGAAACCCATC
TCTGTGGAAGGCAGTTCAAAAAAAGTCAAGACTGATACAGTTCTTATATTGTGTAGAAAGAAAGTGGAACACACA
AGGTGGGATTACCTGACCCAGGTTGAAAAGGAGTGCAAAGAAAAAGAGAAGCCCTCCTATGACACTGAAACAGAT
CCTAGTGAGGGATTGATGAATGTTCTAAAGAAAATTTATGAAGATGGAGACGATGATATGAAGCGAACCATTAAT
AAAGCCTGGGTGGAATCAAGAGAGAAGCAAGCCAAAGGAGACACGGAATTTTGAGACTTTAAAGTCGTTTTGGGA
ACTGTGATGTGATGTGGAAATACTGATGTTTCCAGTAAGGGAATATTGGTGAGCTGCATATATAAATTTGACAGA
TAGCTATTTACATAGCCTTCTAAGTAAAGGCAATGAATTCTCCATTTCTACTGGAGGATTTATTTAAATAAAAT
ATGCTTATTAAACACTCCTGCAAAGATGGTTTTATTAGTACCCTGGTCATTTTGTTCAGGAAGGGTTATATTGC
ATTCTCACGTGAAATATAAAAAGCAAGTCTTGCCCAATAAAAACGCTACATTGTGTGATTTTTTTGTTCAGCTAA
GAATTTGGAAAAGTATTTGCTTGCCTTTTAAGTTACTGACATCAGCTTCCACCAGTGTA AAAATTGAGTAAACCT
GAAGTTTTGCATAAAATGCAATCGGTGCCCTGTGCTTGAAGGTTGCTGTAGAGCATCTGACCCCTTATTACCACC
TTAAGCAATGTATATGCCATGCATTACCATGCACTAATTCATCACAGGTGTTTCTATCTAGATTTAAATATATT
TGTCATGAATGTGGAATAGAAAATCTAAACATGACAATAATAGACATATCTTGTATGGTACCAGTTAGTTTTG
CCGTGGATCAGATGGTTTATAAAAGTAATAACCATAAAGCAAAAAATAATTTGAAAGCCCGTCTATTCCTATGCT
CAATAAAGTTAAGTTTTTCTTCATTAGAACAGTTTTATGATTTATTTGTCTAGGAGTATGTCAGAAAAATCAGGC
TTTTAGTAGGAATTACTCCTATTCCCCCTGAAGTCAGGACCAGTGCCCTGTGATCTCCATTACTTTATTTTCTGG
AGGTATTAGCCAACACAGTTAGATCAGAGAAAGCAATTGAAGCCAGGCATGAAGGCTGGCGCCCGTAATCCCAGC
TACTAAGGCTGGAGGATCACTTCAGCCCAGGAGTTAAGGCTGCAGTGAGCTATGATGATGCCACTGTACTGCAG
CTTGGGTAACAGATTGAGAACCTGTCTCATTAAAAAAGCCGTTAGACACACAGGAAAAAT
CCAGAAGGGTAACTAACTAAAGCTACAATTAATATGGGAATTTGGAAGAAGTGGTAGGATTTAAATACAGAA
ACAGTTTATGTATAGGATAGCTATAAGTAAATACTGAAACACATTATGCCCTCTGTAATTGGGGTTGACACATGAA
CAGAATAGCAGACACAATGCATATGAAAGTTACAGAATATGGTAAAAGTGGGGTAAAGATGGGTTTTTAATGATA
CTAAGATAACTGAAAATAGGCATATAGATATATTCCAAGCCGCTGACGATCTAATTGTAAAAAGTAAAGCATAC
AAATACTAGAAGAAAATGGAGGAAAACGACATTATATGTGACTTAAACCTAGAAGAAATAAATAAACTATTGA
TCAATTTTAACTACATAAAAATGTTTATAGGACAAGAAAAACCCACCATAACCCAAGGCAACAATGTATTGAC
AGGATTCCAATAATTAAGAATACTTCATACAAAAAGAAATGTAAATGACCTTTAACATGTAAAGATGCTCACCTT
GTTCAGAAGAGAATAAACACAGTGTTTTTACCTTC

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FIGURE 898

MASEELQKDLEEVKVLLEKATRKRVRDALTAEKSKIETEIKNKMQQKSQKKAELLDNEKPAAVVAPITTGTVKI
SNYGWDQSDKFVKIYITLTGVHQVPTENVQVHFTERSFDLLVKNLNGKSYSMIVNNLLKPISVEGSSKKVKTDIV
LILCRKKVENTRWDTLTQVEKECKEKEKPSYDTETDPSEGLMNVLLKKIYEDGDDDMKRTINKAWVESREKQAKGD
TEF

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FIGURE 899

TCCAATCGACAAGAAGCTGGAAAAGAAATGATGTTGTCCTTAAACAACCTACAGAATATCATCTATAACCCGGTAA
TCCCGTTTGTGGCACCATTCTGATCAGCTGGATCCTGGAACTTTGATTGTGATACGTGGGCATGTTCCCTAGTG
ACGCAGACAGATTCCAGGTGGATCTGCAGAATGGCAGCAGCATGAAACCTCGAGCCGATGTGGCCTTTCATTTCA
ATCCTCGTTTTCAAAGGGCCGGCTGCATTGTTTGCAATACTTTGATAAATGAAAAATGGGGACGGGAAGAGATCA
CCTATGACACGCCTTTCAAAAGAGAAAAGTCTTTTGAGATCGTGATTATGGTGCTGAAGGACAAATTCAGGTGG
CTGTAAATGGAAAACATACTCTGCTCTATGGCCACAGGATCGGCCCAGAGAAAATAGACACTCTGGGCATTTATG
GCAAAGTGAATATTTCACTCAATTGGTTTTAGCTTCAGCTCGGACTTACAAAGTACCCAAGCATCTAGTCTGGAAC
TGACAGAGATAAGTAGAGAAAATGTTCCAAAGTCTGGCACGCCCCAGCTTCCTAGTAATAGAGGAGGAGACATTT
CTAAAATCGCACCCAGAAGTGTCTACACCAAGAGCAAAGATTGACTGTCAATCACACTTTGACTTGCACCAAAA
TACCACCTATGAACTATGTGTCAAAGAGGCTGCCATTGCTGCAAGGTTGAACACCCCCATGGGCCCTGGACGAA
CTGTCGTCGTTAAAGGAGAAGTGAATGCAAATGCCAAAAGCTTTAATGTTGACCTACTAGCAGGAAAATCAAAGG
ATATTGCTCTACACTTGAACCCACGCCTGAATATTAAAGCATTGTGAAGAAATTCCTTTCTTCAGGAGTCCTGGG
GAGAAGAAGAGAGAAAATATTACCTCTCTCCCATTTAGTCTGGGATGTACTTTGAGATGATAATTTATTGTGATG
TTAGAGAATTCAAGGTTGCAGTAAATGGCGTACACAGCCTGGAGTACAAACACAGATTTAAAGAGCTCAGCAGTA
TTGACACGCTGGAAATTAATGGAGACATCCACTTACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTA
CAAAAACCAAAATACAGAATGGCTTCTGTGATACTGGCCTTGC

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FIGURE 900

MMLSLNNLQNI IYNPVI PFVGTIPDQLDPGTLIVIRGHVPSDADRFQVDLQNGSSMKPRADVAHFHNPFRFKRAGC
IVCNTLINEKWGREEITYDTPFKREKSFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGKVNIHSIG
FSFSSDLQSTQASSLELTEISRENVPKSGTPQLPSNRGGDISKIAPRTVYTKSKDSTVNHTLTCTKIPPMNYVSK
RLPFAARLNTPMGPGRITVVVKGEVNANAKSFNVDLLAGKSKDIALHLNPRLNIAFVRNSFLQESWGEEERNITS
LPFSPGMYFEMI IYCDVREFKVAVNGVHSLEYKHRFKELSSIDTLEINGDIHLLEVRWS

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FIGURE 901

GTGCGCCATTTTGCCGGGGTTTGAATGTGAGGCGGAGCGGCGGCAGGAGCGGATAGTGCCAGCTACGGTCCGCG
GCTGGGGTTCCCTCCTCCGTTTCTGTATCCCCACGAGATCCTATAGCAATGGAACCTAGCGATGCAAATCTGCAA
ACACTAACAGAATATTTAAAGAAAAACACTTGATCCTGATCCTGCCATCCGACGTCCAGCTGAGAAATTTCTTGAA
TCTGTTGAAGGAAATCAGAATTATCCACTGTTGCTTTTGACATTACTGGAGAAGTCCCAGGATAATGTTATCAAA
TGTGCTTCAGTAACATTCAAAAACTATATTTAAAGGAACTGGAGAATTGTTGAAGATGAACCAAACAAAATT
AAGCCGATCGAGTGGCCATTAAAGCCAACATAGTGCACTTGATGCTTAGCAGCCCAGAGCAAATTCAGAAG
TTAAGTGATGCAATTAGCATTATTGGCAGAGAAGATTTTCCACAGAAATGGCCTGACTTGCTGACAGAAATG
GTGAATCGCTTTCAGAGTGGAGATTTCCATGTTATTAATGGAGTCCCTCCGTACAGCACATTTCATTATTTAAAGA
TGGTCAATGAATTTAAGTCAAACGAGTTATGGACTGAAATTAAGCTTGTCTGGATGCCCTTTGCTTTGCCTTTG
CAATCTTTTAAAGGCCACTATTGAACTCTGCAGTACCCATGCAAATGATGCCTCTGCCCTGAGGATTCTGTTT
TCCCTGATCCTGATCTCAAAATTGTTCTATAGTTTAACTTTTCAGGATCTCCCTGAATTTTGGGAAGGTAAT
TAAACTTGGATGAATAATTTCCATACTCTCTTAACATTGGATAATAAGCTTTTACAACTGATGATGAAGAG
TCCCGGCTTATTGGAGCTCTTAAATCCCAGATTTGTGATAATGCCGCACTCTATGCACAAAAGTACGATGAA
GAATTCAGCGATACCTGCCCTCGTTTGTACAGCCATCTGGAATTTACTAGTTACAACGGGTCAAGAGGTTAA
TATGATTTGTTGGTAAGTAATGCAATTCATTTCTGGCTTCAGTTTGTGAGAGACCTCATTATAAGAATCTATTT
GAGGACCAGAACACGCTGACAAGTATCTGTGAAAAGGTTATTGTGCCTAACATGGAATTTAGAGCTGCTGATGAA
GAAGCATTGAAGATAATCTGAGGAGTACATAAGGAGAGATTTGGAAGGATCTGATATTGATACTAGACGCAGG
GCTGCTTGTGATCTGGTACGAGGATTATGCAAGTTTTTGTAGGGACCTGTGACAGGAATCTTCTCTGTTATGTT
AATTCATGCTGCAGGAATACGCAAAAAATCCATCTGTCAACTGGAAACACAAAGATGCAGCCATCTACCTAGTG
ACATCTTTGGCATCAAAAGCCCAACACAGAAGCATGGAATTACACAAGCAAATGAACCTGTAAACCTAACTGAG
TTCTTTGTGAATCACATCCTCCCTGATTTAAATCAGCTAATGTGAATGAATTTCTGTCTTAAAGCTGACGGT
ATCAAATATATTATGATTTTTAGAAATCAAGTGCCAAAGAACATCTTTTAGTCTCGATTCTCTCTTGATTAAT
CATCTTCAAGCTGGAAGTATTGTTGTTCACTTACGCAGCTCATGCTCTTGAACGGCTCTTTACTATGCGAGGG
CCTAACAATGCCACTCTCTTTACAGCTGCAGAAATCGCACCCTTGTGAGATTCTGCTAACAAACCTTTTCAA
GCTCTCACACTTCCTGGCTCTTTCAGAAAATGAATATATTATGAAAGCTATCATGAGAAGTTTTTCTCTCTACAA
GAAGCCATAATCCCCTACATCCCTACTCTCATCACTCAGCTTACACAGAAGCTATTAGCTGTTAGTAAGAACCCA
AGCAAACCTCACTTTAAATCACTACATGTTTGAAGCAATATGTTTATCCATAAGAATAACTTGCAAAGCTAACCTT
GCTGCTGTTGTAAATTTTGAGGAGGCTTTGTTTTTGGTGTCTTACTGAAATCTTACAAAATGATGTGCAAGATTT
ATTCCATACGTCTTTCAAGTGATGCTTTGCTTCTGGAACACACAAAAATGACATCCCGTCTTCTATATGGCC
TTATTTCTCATCTCCTTCAGCCAGTGCTTTGGGAAAGAACAGGAAATATTCCTGCTCTAGTGAGGCTTCTTCAA
GCATTCTTAGAACGCGGTTCAAACACAATAGCAAGTGCTGCAGCTGACAAAATTCCTGGGTTACTAGGTGTCTTT
CAGAAGCTGATTGCATCCAAAGCAAATGACCACCAAGGTTTTTATCTTCTAAACAGTATAATAGAGCACATGCCT
CCTGAATCAGTTGACCAATATAGGAAACAAATCTTCATTCTGCTATTCCAGAGACTTCAGAATTCCAAACAACC
AAGTTTATCAAGAGTTTTTTAGTCTTTATTAATTTGTATTGCATAAAATATGGGGCACTAGCACTACAAGAAATA
TTTGATGGTATACAACCAAAATGTTTGAATGGTTTTGGAAAAATTATTATTCTGAAATTCAGAAGGTATCT
GGAAATGTAGAGAAAAAGATCTGTGCGGTTGGCATAACCAACTTACTAACAGAATGTCCCCCAATGATGGACACT
GAGTATACCAAACCTGTGGACTCCATTATTACAGTCTTTGATTGGTCTTTTTGAGTTACCCGAAGATGATACCATT
CCTGATGAGGAACATTTTATTGACATAGAAGATACACCAGGATATCAGACTGCCTTCTCACAGTTGGCATTGTGCT
GGGAAAAAAGAGCATGATCCTGTAGGTCAAATGGTGAATAACCCCAAAATTCACCTGGCACAGTCACTTCACATG
TTGTCTACCGCCTGTCCAGGAAGGGTTCCATCAATGGTGAGCACCAGCCTGAATGCAGAAGCGCTCCAGTATCTC
CAAGGGTACCTTCAGGCAGCCAGTGTGACACTGCTTTAAACTGCATTTTTCTAATGGGCTAAACCCAGATGGTTT
CCTAGGAAATCACAGGCTTCTGAGCACAGCTGCATTAAACAAAGGAAGTTTTCTTTTGAACCTGTGCAG

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FIGURE 902

MELSDANLQTLTEYLKKTLDPPAIRRPAEKFLSVEGNQNYPLLLLTLEKSQDNVIKVCASVTFKNYIKRNR
IVEDEPNKICEADRVAIKANIVHMLSSPEQIQKQLSDAISIIGREDFPQKWPDLITEMVNRFAQSGDFHVGVL
RTAHSLEFKRYRHEFKSNELWTEIKLVLDALPLTNLFKATIELCSTHANDASALRILFSSLILISKLFYSLNFQ
DLPEFWEGNMETWMNMFHTLLTLDNKLLQTDDEEEAGLLELLKSQICDAAALYAQKYDEEFQRYLPRFVTAIWNL
LVTTGQEVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIVPNMEFRAADEEAFEDNSEEYIRRDLE
GSDIDTRRRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNPSVNWKHKDAAIYLVTSLSKAQTQKHGITO
ANELVNLTFFVNHILPDLKSANVNEFPVLKADGIKYIMIFRNQVPKEHLLVSIPLLINHLQAGSIVVHTYAHA
LERLFTMRGPNNATLFTA AEIAPFVEILLTNLFKALTLPGSSENEYIMKAIMRSFSLQEAIPYIPTLITQLTQ
KLLAVSKNPSKPHFNHYMFEAICLSIRITCKANPAAVNFEEALFLVFTEILQNDVQEFIPYVFQVMSLLETHK
NDIPSSYMA LFPHLLQPV LWERTGNIPALVRLLQAF LERGSNTIASAADKIPGLLG VFQKLIASKANDHQGFYL
LNSII EHMPPE SVDQYRKQIFILLFQRLQNSKTKFKISFLVF INLYCIKYGALALQEIFDGIQPKMFGMVLEKI
I IPEIQK VSGNVEKKICAVGITNLLTECPMMDTEYTKLWTPLLQSLIGLFELPEDDTIPDEEHFIDIEDTPGYQ
TAFSQLAFAGKKEHDPVGQMVNNPKIH LAQSLHMLSTACGRVPSMVSTSLNAEALQYLQGYLQAASVTLL

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FIGURE 903

GGCACGAGGAGACAAAGCAGCGCCCGTCTGCTTCGGGCCTCTGGAATTTAGCGCTCGCCAGCTAGCCGCAGAAA
TGACTGCTGTCCATGCAGGCAACATAAACTTCAAGTGGGATCCTAAAAGTCTAGAGATCAGGACTCTGGCAGTTG
AGAGACTGTTGGAGCCTCTTGTTACACAGGTTACAACCCTTGTAACACCAATAGTAAAGGGCCCTCTAATAAGA
AGAGAGGTCGTTCTAAGAAGGCCCATGTTTTGGCTGCATCTGTTGAACAAGCAACTGAGAATTTCTTGGAGAAGG
GGGATAAAATTGCGAAGGAGAGCCAGTTTCTCAAGGAGGAGCTTGTGGCTGCTGTAGAAGATGTTGAAAACAAG
GTGATTTGATGAAGGCTGCTGCAGGAGAGTTTCGAGATGATCCCTGCTCTTCTGTGAAGCGAGGCAACATGGTTC
GGGCAGCTCGAGCTTTGCTCTCTGCTGTTACCCGGTTGCTGATTTTGGCTGACATGGCAGATGTCTACAAATTAC
TTGTTCAAGCTGAAAGTTGTGGAAGATGGTATCTTGAAGTTGAGGAATGCTGGCAATGAACAAGACTTAGGAATCC
AGTATAAAGCCCTAAAACCTGAAGTGGATAAGCTGAACATTATGGCAGCCAAAAGACAACAGGAATTGAAAGATG
TTGGCCATCGTGATCAGATGGCTGCAGCTAGAGGAATCCTGCAGAAGAACGTTCCGATCCTCTATACTGCATCCC
AGGCATGCCCTACAGCACCCCTGATGTGCGAGCCTATAAGGCCAACAGGGACCTGATATACAAGCAGCTGCAGCAGG
CGGTCACAGGCATTTCCAATGCAGCCCAGGCCACTGCCTCAGACGATGCCTCAGCAGCAGGAGGTTGGAGGAGGAG
GAGAACTGGCATATGCACTCAATAACTTTGACAAACAAATCATTGTGGACCCCTTGAGCTTCAGCGAGGAGCGCT
TTAGGCCTTCCCTGGAGGAGCGTCTGGAAAGCATCATTAGTGGGGCTGCCTTGATGGCCGACTCGTCTGCACGC
GTGATGACCGTCTGTGAGCGAATTGTGGCAGAGTGTAATGCTGTCCGCCAGGCCCTGCAGGACCTGCTTTCCGGAGT
ACATGGGCAATGCTGGACGTAAAGAAAGAAGTGATGCACTCAATTCTGCAATAGATAAAATGACCAAGAAGACCA
GGGACTTGCGTAGACAGCTCCGCAAAGCTGTCTATGGACCAGTTTTAGATTCTTTCTGAAACCAATGTTCCAC
TTTTGGTATTGATTGAAGCTGCAAAGATGGAATGAGAAAGAAGTTAAGGAGTATGCCCAAGTTTTCCGTGAAC
ATGCCAACAAATTGATTGAGGTTGCCAACTTGGCCTGTTCCATCTCAAATAATGAAGAAGGTGTAAAGCTTGTTT
GAATGTCTGCAAGCCAGTTAGAAGCCCTCTGTCTCAGGTTATTAATGCTGCACTGGCTTTAGCAGCAAAACCAC
AGAGTAAACTGGCCCAAGAGAACATGGATCTTTTTAAAGAACAATGGGAAAAACAAGTCCGTGTTCTCACAGATG
CTGTGATGACATTACTTCCATTGATGACTTCTTGGCTGTCTCAGAGAATCACATTTTGGAAAGATGTGAACAAAT
GTGTCAATTGCTCTCCAAGAGAAGGATGTGGATGGCCTGGACCGCACAGCTGGTGCAATTCGAGGCCGGGCAGCCC
GGGTCAATTCACGTAGTCACCTCAGAGATGGACAACATATGAGCCAGGAGTCTACACAGAGAAGGTTCTGGAAGCCA
CTAAGCTGCTCTCCAACACAGTCATGCCACGTTTTACTGAGCAAGTAGAAGCAGCCGTGGAAGCCCTCAGCTCGG
ACCTGCCCAGCCCATGGATGAGAATGAGTTTATCGATGCTTCCCGCCTGGTATATGATGGCATCCGGGACATCA
GGAAAGCAGTGCTGATGATAAGGACCCCTGAGGAGTTGGATGACTCTGACTTTGAGACAGAAGATTTTGATGTCA
GAAGCAGGACGAGCGTCCAGACAGAAGACGATCAGCTGATAGCTGGCCAGAGTGCCCGGGCGATCATGGCTCAGC
TTCCCCAGGAGCAAAAAGCGAAGATTGCGGAACAGGTGGCCAGCTTCCAGGAAGAAAAGAGCAAGCTGGATGCTG
AAGTGTCAAATGGGACGACAGTGGCAATGACATCATTGTGCTGGCCAAGCAGATGTGCATGATTATGATGGAGA
TGACAGACTTTACCCGAGGTAAAGGACCACTCAAAAATACATCGGATGTATCAGTGCTGCCAAGAAAATTGCTG
AGGCAGGATCCAGGATGGACAAGCTTGGCCGCACCATTCAGACCATTCGCCCCGACTCGGCTTGCAAGCAGGACC
TGCTGGCCTACCTGCAACGCATCGCCCTCTACTGCCACCAGCTGAACATCTGCAGCAAGGTCAAGGCCGAGGTGC
AGAATCTCGGCGGGGAGCTTGTTGTCTCTGGGGTGGACAGCGCCATGTCCCTGATCCAGGCAGCCAAGAACTTGA
TGAATGCTGTGGTGCAGACAGTGAAGGCATCCTACGTGCCTCTACCAAATACCAAAAGTCACAGGGTATGGCTT
CCCTCAACCTTCTGCTGTGTATGGAAGATGAAGGCACCAGAGAAAAGCCATTGGTGAAGAGAGAGAAACAGG
ATGAGACACAGACCAAGATTAAACGGGCATCTCAGAAGAAGCACGTGAACCCGGTGCAGGCCCTCAGCGAGTTCA
AAGCTATGGACAGCATCTAAGTCTGCCAGGCCGCGCCGCCCCACCCCTCGGGGCTCCTGAATATCAGTCACTGT
TCGTCACTCAAATGAATTTGCTAAATAACAACACTGATACTAGATTCCACAGGGAAATGGGCAGACTGAACCAGTC
CAGGTGGTGAATTTTCCAAGAACATAGTTTAAAGTTGATTAAAAATGCTTTTAGAATGCAGGAGCCTACTTCTAGC
TGTATTTTTTGTATGCTTAAATAAAAAATAAAATTCATAACCAAAGAGAATCCCACATTAGCTTGTTAGTAATGC
TCTGACCAAGCCGAGATGCCCATTTCTTATGATGGCGGCGTTAGGGTTTGAGAGAAGGGAATTTGGCTCAACT
TCAGTTGAGAGGGTGCAGTCCAGACAGCTTGACTGCTTTTTAAATGACCAAAGATGACCTGTGGTAAGCAACCTGG
GCATCTTAGGAAGCAGTCCCTGGAGAAGGCATGTTCCAGAAAGGTCTCTGGAGGGACAACTCACTCAGTAAAA
CATAATGTATCATGAAGAAAAGTATTCTCTATGACATGAAATGAAAATTTAATGCATTGTTATAATTACTAAT
GTACGCTGCTGCAGGACATTAATAAAGTTGCTTTTTTAGGCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 904

MTAVHAGNINFKWDPKSLEIRTLAVERLLEPLVTQVTTLVNTNSKGPSNKKRGRSKKAHVLAASVEQATENFLEK
GDKIAKESQFLKEELVAAVEDVRKQGDLMKAAAGEFADDPCCSVKRGNMVRAARALLSAVTRLLILADMADVYKL
LVQLKVVEDGILKLRNAGNEQDLGIQYKALKPEVDKLNIMAARKQOELKDVGHQDQMAAARGILQKNVPILYTAS
QACLQHPDVAAAYKANRDLIYKQLQQA VTGISNAAQATASDDASQHQGGGGGELAYALNNFDKQIIVDPLSFSEER
FRPSLEERLESIIISGAALMADSSCTRDDRRERIVAECNAVRQALQDLLSEYMGNAGRKERSDALNSAIDKMTKKT
RDLRRQLRKAVMDHVSDSFLETNVPLLVLEIAAKNGNEKEVKEYAQVFRHANKLIEVANLACŚISNNEEGVKLV
RMSASQLEALCPQVINAALALAAKPQSKLAQENMDLFKEQWEKQVRVLTDAVDDITSIDDFLAVSENHILEDVNK
CVIALQEKDVGDLDRTAGAIRGRAARVIHVVTSEMDNYEPGVYTEKVLEATKLLSNTVMPRFTEQVEAAVEALSS
DPAQPMDENEFIDASRLVYDGIRDIRKAVLMIRTPEELDDSDFETEDFDVRSRTSVQTEDDQLIAGQSARAIMAQ
LPQEQKAKIAEQVASFQEEKSKLDAEVSKWDDSGNDIIVLAKQCMIMMEMTDFTRGKGPLKNTSDVISAAKKIA
EAGSRMDKLGRTIADHCPDSACKQDLLAYLQRIALYCHQLNICKSVKAEVQNLGGELVVSQVDSAMSLIQAAKNL
MNAVVTQVKASYVASTKYQKSQGMASLNLPAVSWKMKAPKPLVKREKQDETQTKIKRASQKKHVNVPQALSEF
KAMDSI

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FIGURE 905A

GCGAGAGGAGTCGGGATCTGCGCTGCAGCCACCGCCGCGGTTGATACTACTTTGACCTTCCGAGTGCAGTGAGGC
ATACATCACAATTTGGAATTATGCATTGGTTTATCAATTTACTTGTATTATTGTCACCCTGCTGCCAGATATGAC
TTCATGAGGACAGTGATGTGTGTTCTGAAATTGTGAACCATGAGTCTAGTACTTAATGATCTGCTTATCTGCTGC
CGTCAACTAGAACATGATAGAGCTACAGAACGAAAGAAAGTGTGAGAAATTTAAGCGCTGATTTCGAGATCCT
GAAACAATTAACATCTAGATCGGCATTTCAGATTCCAAACAAGGAAAATATTTGAATTGGGATGCTGTTTTTGA
TTTTTACAGAAATATATTAGAAAGAAACAGAATGTCTGAGAATAGCAAAACCAAATGTATCAGCCTCAACACAA
GCCTCCAGGCAGAAAAAGATGCAGGAAATCAGTAGTTTGGTCAAATACTTCATCAAATGTGCAACAGAAGAGCA
CCTAGGCTAAAATGTCAAGAACTCTTAAATTATATCATGGATACAGTGAAAGATTTCATCTAATGGTGCTATTTAC
GGAGCTGATTGTAGCAACATACTACTCAAAGACATTCTTTCTGTGAGAAATACTGGTGTGAAATATCTCAGCAA
CAGTGGTTAGAATTGTTCTCTGTGTACTTCAGGCTCTATCTGAAACCTTCACAAGATGTTTCATAGAGTTTTAGTG
GCTAGAATAATTCATGCTGTTACCAAAGGATGCTGTTCTCAGACTGACGGATTAAATTCCAAATTTTTGGACTTT
TTTTCCAAGGCTATTCAGTGTGCGAGACAAGAAAAGAGCTCTTCAGGTCTAAATCATATCTTAGCAGCTCTTACT
ATCTTCCTCAAGACTTTGGCTGTCACTTTTGAATTCGAGTGTGTGAATTAGGAGATGAAATCTTCCCACCTTG
CTTTATATTTGGACTCAACATAGGCTTAATGATTCTTTAAAAGAAGTCATTATTGAATTATTTCAACTGCAAATT
TATATCCATCATCCGAAAGGAGCCAAAACCCAAGAAAAAGGTGCTTATGAATCAACAAAATGGAGAAGTATTTTA
TACAACTTATATGATCTGCTAGTGAATGAGATAAGTCATATAGGAAGTAGAGGAAAGTATCTTCAGGATTTCTGT
AATATTGCCGTCAAAGAAAATTTGATTGAATTGATGGCAGATATCTGTCAACAGGTTTTTAATGAAGATACCAGA
TCCTTGAGATTTCTCAATCTTACACTACTACACAAAGAGAATCTAGTGATTACAGTGTCCCTTGCAAAGGAAG
AAAATAGAAGTAGGCTGGGAAGTAATAAAAGATCACCTTCAGAAGTCACAGAATGATTTTGATCTTGTGCCTTGG
CTACAGATTGCAACCCAATTAATATCAAAGTATCCTGCAAGTTTACCTAACTGTGAGCTGTCTCCATTACTGATG
ATACTATCTCAGCTTCTACCCCAACAGCGACATGGGGAACGTACACCATATGTGTTACGATGCCTTACGGAAGTT
GCATTGTGTCAAGACAAGAGGTCAAACCTAGAAAGCTCACAAAAGTCAGATTTATTTAACTCTGGAATAAAATT
TGGTGTATTACCTTTCTGTGGTATAAGTTCTGAGCAAAATACAAGCTGAAAACCTTTGGCTTACTTGGAGCCATAATT
CAGGGTAGTTTAGTTGAGGTTGACAGAGAATTCTGGAAGTTATTTACTGGGTCAGCCTGCAGACCTTCATGTCTCT
GCAGTATGCTGTTTGACTTTGGCACTGACCACCAGTATAGTTCCAGGAGCGGTAAAAATGGGAATAGAGCAAAAT
ATGTGTGAAGTAAATAGAAGCTTTTTCTTTAAAGGAATCAATAATGAAATGGCTCTTATTCTATCAGTTAGAGGGT
GACTTAGAAAATAGCACAGAAGTGCCTCCAATTCTTCACAGTAATTTTCTCTATCTTGTACTGGAGAAAATTCTT
GTGAGTCTCACTATGAAAACGTGTAAGCTGCAATGAATTTTTTCCAAAGCGTGCCAGAATGTGAACACCACCAA
AAAGATAAAGAAGAACTTTTCACTCTCAGAAGTAGAAGAACTATTTCTTCAGACAACCTTTTGACAAGATGGACTTT
TTAACCATTGTGAGAGAATGTGGTATAGAAAAGCACCAGTCCAGTATTGGCTTCTCTGTCCACCAGAATCTCAAG
GAATCACTGGATCGCTGTCTTCTGGGATTATCAGAACAGCTTCTGAATAATTACTCATCTGAGATTACAAATTCA
GAACTCTTGTCCGGTGTTCACGTCTTTTGGTGGGTGTCTTGGCTGCTACTGTTACATGGGTGTAATAGCTGAA
GAGGAAGCATATAAGTCAGAATTATTCAGAAAGCCAACCTCTCTAATGCAATGTGCAGGAGAAAGTATCACTCTG
TTTTAAAATAAGACAAATGAGGAATTCAGAATTGGTTCCTTGAGAAATATGATGCAGCTATGTACACGTTGCTTG
AGCAACTGTACCAAGAAGAGTCCAAATAAGATTGCATCTGGCTTTTTCTGCGATTGTTAACATCAAAGCTAATG
AATGACATTGCAGATATTTGTAAAAGTTTAGCATCCTTCATCAAAAAGCCATTTGACCGTGGAGAAGTAGAATCA
ATGGAAGATGATACTAATGGAAATCTAATGGAGGTGGAGGATCAGTCATCCATGAATCTATTTAACGATTACCTT
GATAGTAGTGTTAGTGATGCAAACGAACCTGGAGAGAGCCAAAGTACCATAGGTGCCATTAATCCTTTAGCTGAA
GAATATCTGTCAAAGCAAGATCTACTTTTCTTAGACATGCTCAAGTTCTTGTGTTTGTGTGTAACCTACTGCTCAG
ACCAATACTGTGTCTTTAGGGCAGCTGATATTCGGAGGAAATTGTTAATGTTAATTGATTCTAGCACGCTAGAA
CCTACCAAAATCCCTCCACCTGCATATGTATCTAATGCTTTTAAAGGAGCTTCTGGAGAAGAGTACCCCTTGCCA
ATGGAAGATGTTCTTGAACCTCTGAAACCACTATCCAATGTGTGTTCTTTGTATCGTCGTGACCAAGATGTTTGT
AAAATATTTTTAAACCATGTCCTTCATGTAGTGAAAAACCTAGGTCAAAGCAATATGGACTCTGAGAACACAAGG
GATGCTCAAGGACAGTTTCTTACAGTAATTGGAGCATTTTGGCATCTAACAAAGGAGAGGAAATATATATTCTCT
GTAAGAATGGCCCTAGTAAATTGCCTTAAACCTTTGCTTGAGGCTGATCCTTATTCAAAATGGGCCATTCTTAAT
GTAATGGGAAAAGACTTTCTGTAAATGAAGTATTTACACAATTTCTTGCTGACAAATCATCACCAAGTTCGCATG
TTGGCTGCAGAGTCAATCAATAGATTGTTCCAGGACACGAAGGGAGATTCTTCCAGGTTACTGAAAGCACTTCCT
TTGAAGCTTCAGCAAACAGCTTTTGAATATGCATACTTGAAAGCTCAGGAAGGAATGAGAGAAATGTCCCATAGT

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FIGURE 905B

GCTGAGAACCCTGAAACTTTGGATGAAATTTATAATAGAAAATCTGTTTTACTGACGTTGATAGCTGTGGTTTTA
TCCTGTAGCCCTATCTGCGAAAAACAGGCTTTGTTTGCCCTGTGTAAATCTGTGAAAGAGAATGGATTAGAACCT
CACCTTGTGAAAAAGGTTTTAGAGAAAGTTTCTGAAACTTTTGGATATAGACGTTTAGAAGACTTTATGGCATCT
CATTTAGATTATCTGGTTTTTGAATGGCTAAATCTTCAAGATACTGAATACAACCTTATCTTCTTTTCTTTTATT
TTATTAACTACACAAATATTGAGGATTTCTATAGATCTTGTATAAGGTTTTGATTCCACATCTGGTGATTAGA
AGTCATTTTGATGAGGTGAAGTCCATTGCTAATCAGATTCAAGAGGACTGGAAAAGTCTTCTAACAGACTGCTTT
CCAAAGATTCTTGTAATATTCTTCTTATTTTGCCCTATGAGGGTACCAGAGACAGTGGGATGGCACAGCAAAGA
GAGACTGCTACCAAGGTCTATGATATGCTTAAAAGTGAAAACCTTATTGGGAAAACAGATTGATCACTTATTCATT
AGTAATTTACCAGAGATTGTGGTGGAGTTATTGATGACGTTACATGAGCCAGCAAATCTAGTGCCAGTCAGAGC
ACTGACCTCTGTGACTTTTTCAGGGGATTGGATCCTGCTCCTAATCCACCTCATTTTCCATCGCATGTGATTAAA
GCAACATTTGCCTATATCAGCAATTGTCATAAAACCAAGTTAAAAAGCATTTTGTAGAAATCTTTCAAAAGCCCT
GATTCCTATCAGAAAATCTTCTTGCCATATGTGAGCAAGCAGCTGAAACAAATAATGTTTATAAGAAGCACAGA
ATTCTTAAATATATCACCTGTTGTAGTTTATTACTGAAAGATATAAAAAAGTGCGTTAGGAGGAGCTTGGGCC
TTTGTTCTTCGAGACGTTATTTACTTTGATTCACTATATCAACCAAAGGCCCTTCTGTATCATGGATGTGTCA
TTACGTAGCTTCTCCCTTGTGTGACTTATTAAGTCAGGTTTGCCAGACAGCCGTGACTTACTGTAAGGATGCT
CTAGAAAACCATCTTCATGTTATTGTTGGTACACTTATACCCCTTGTGTATGAGCAGGTGGAGGTTTCAAAACAG
GTATTGGACTTGTGAAATACTTAGTGATAGATAACAAGGATAATGAAAACCTCTATATCAGATTAAAGCTTTTA
GATCCTTTTCTTGACCATGTTGTTTTTAAGGATTGCGTATTACTCAGCAAAAAATCAAATACAGTAGAGGACCC
TTTTCACTCTTGAGGAAATTAACCATTTTCTCTCAGTAAGTGTATGATGCACTTCCATTGACAAGACTTGAA
GGACTAAAGGATCTTCGAAGACAACCTGGAACCTACATAAAGATCAGATGGTGGACATTATGAGAGCTTCTCAGGAT
AATCCGCAAGATGGGATTATGGTGAAACTAGTTGTCAATTTGTTGCAATTATCCAAGATGGCAATAAACCACACT
GGTGAAAAAGAGTTCTAGAGGCTGTTGGAAGCTGCTTGGGAGAAGTGGGTCTATAGATTTCTCTACCATAGCT
ATACAACATAGTAAAGATGCATCTTATACCAAGGCCCTTAAGTTATTTGAAGATAAAGAACTTCAGTGGACCTTC
ATAATGCTGACCTACCTGAATAACACACTGGTAGAAGATTGTGTCAAAGTTTCGATCAGCAGCTGTTACCTGTTTG
AAAAACATTTTAGCCACAAAGACTGGACATAGTTTCTGGGAGATTTATAAGATGACAACAGATCCAATGCTGGCC
TATCTACAGCCTTTTAGAACATCAAGAAAAAGTTTTTAGAAGTACCCAGATTTGACAAAGAAAACCTTTTGAA
GGCTGGATGATATAAATCTGTGGATTCTCTAAGTGAAAATCATGACATTTGGATAAAGACACTGACTTGTGCT
TTTTTGGACAGTGGAGGCACAAAATGTGAAATCTTCAATTATTAAAGCCAATGTGTGAAGTGAAAACCTGACTTT
TGTCAGACTGTACTTCCATACTTGATTGATGATTTTTACTCCAAGATACAAATGAATCATGGAGAAATCTGCTT
TCTACACATGTTTCAGGGATTTTTTACCAGCTGTCTTCGACACTTCTCGCAAACGAGCCGATCCACAACCCCTGCA
AACTTGGATTGAGAGTCAGAGCACTTTTTCCGATGCTGTTTGGATAAAAAATCACAAAGAACAATGCTTGCTGTT
GTGGACTACATGAGAAGACAAAAGAGACCTTCTTCAGGAACAATTTTTAATGATGCTTTCTGGCTGGATTTAAAT
TATCTAGAAGTTGCCAAGGTAGCTCAGTCTTGTGCTGCTCACTTTACAGCTTTACTCTATGCAGAAATCTATGCA
GATAAGAAAAGTATGGATGATCAAGAGAAAAGAAGTCTTGCAATTTGAAGAAGGAAGCCAGAGTACAACCTATTCT
AGCTTGAGTGAAAAAGTAAAGAAGAACTGGAATAAGTTTACAGGATCTTCTCTTAGAAATCTACAGAAGTATA
GGGGAGCCAGATAGTTTGTATGGCTGTGGTGGAGGAAGATGTTACAACCCATTACTAGACTACGAACATATGAA
CACGAAGCAATGTGGGGCAAAGCCCTAGTAACATATGACCTCGAAACAGCAATCCCCCTCATCAACACGCCAGGCA
GGAATCATTGAGGCCCTGACAGAAATTTGGGACTCTGCCATATTCTTTCCGCTCTATTTAAAAGGATTGGATTATGAA
AATAAAGACTGGTGTCTGAACTAGAAGAACTTCATTACCAAGCAGCATGGAGGAATATGCAGTGGGACCATTGC
ACTTCCGTCAGCAAAGAAGTAGAAGGAACCAAGTTACCATGAATCATTGTACAATGCTCTACAATCTCTAAGAGAC
AGAGAATTCTCTACATTTTATGAAAGTCTCAAATATGCCAGAGTAAAAGAAGTGGAAGAGATGTGTAAGCGCAGC
CTTGAGTCTGTGATTTCGCTCTATCCCACACTTAGCAGGTTGCAGGCCATTGGAGAGCTGGAAGCATTGGGGAG
CTTTTCTCAAGATCAGTCACACATAGACAACCTCTCTGAAGTATATATTAAGTGGCAGAAACACTCCCAGCTTCTC
AAGGACAGTGATTTTAGTTTTAGGAGCCTATCATGGCTCTACGCACAGTCATTTTGGAGATCCTGATGGAAAAG
GAAATGGACAACCTCACAAAGAGAATGTATTAAGGACATTCTCACCAAACACCTTGTAAGACTCTCTATACTGGCC
AGAATTTTCAAGAACTCAGCTCCCTGAAAGGGCAATATTTCAAATTAACAGTACAATTCAGTTAGCTGTGGA
GTCTCTGAGTGGCAGCTGGAAGAAGCACAAGTATTCTGGGCAAAAAAGGAGCAGAGTCTTGGCCCTGAGTATTCTC
AAGCAAATGATCAAGAAGTTGGATGCCAGCTGTGCAGCGAACAATCCCAGCCTAAAACCTTACATACACAGAATGT

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FIGURE 905C

CTGAGGGTTTGTGGCAACTGGTTAGCAGAAACGTGCTTAGAAAATCCTGCGGTCATCATGCAGACCTATCTAGAA
AAGGCAGTAGAAGTTGCTGGAAATTATGATGGAGAAAGTAGTGATGAGCTAAGAAATGGAAAAATGAAGGCATTT
CTCTCATTAGCCCGGTTTTTCAGATACTCAATACCAAAGAATTGAAAACCTACATGAAATCATCGGAATTTGAAAAC
AAGCAAGCTCTCCTGAAAAGAGCCAAAGAGGAAGTAGGTCTCCTTAGGGAACATAAAATTCAGACAAACAGATAC
AAGTAAAGGTTTCAGCGAGAGCTGGAGTTGGATGAATTAGCCCTGCGTGCAGTGAAGAGGATCGTAAACGCTTC
GTAAAGCAGTTGAAAATTATATCAACTGCTTATTAAGTGGAGAAGAACATGATATGTGGGTATTCGGGCTT
TCCCTCTGGCTTGAAAATTCTGGAGTTTCTGAAGTCAATGGCATGATGAAGAGAGACGGAATGAAGATTCCA
AAATATAAATTTTTGCCTCTTATGTACCAATTGGCTGCTAGAATGGGGACCAAGATGATGGGAGGCCTAGGATTT
TGAAGTCCTCAATAATCTAATCTCTAGAATTTCAATGGATCACCCCATCACACTTTGTTTATTATACTGGCC
GCAAATGCAAACAGAGATGAATTTCTGACTAAACCAGAGGTAGCCAGAAGAAGCAGAATAACTAAAAATGTG
GAAACAAAGCTCTCAGCTTGATGAGGATCGAACAGAGGCTGCAAATAGAATAATATGTACTATCAGAAGTAGG
GCTCAGATGGTCAGAAGTGTTGAGGCACCTTTGTGATGCTTATATTATATTAGCAAACCTTAGATGCCACTCAG
GAAGACTCAGAGAAAAGGCATAAATATTCCAGCAGACCAGCCAATTACTAAACTTAAGAATTTAGAAGATGTT
TGTCCCTACTATGGAAATTAAGGTGGACCACACAGGAGAATATGGAAATCTGGTGACTATACAGTCATTTAAA
GCAGAATTTTCGCTTAGCAGGAGGTGTAAATTTACCAAAAAATAATAGATTGTGTAGGTTCCGATGGCAAGGAGAGG
AGACAGCTTGTTAAGGGCCGTGATGACCTGAGACAAGATGCTGTCTATGCAACAGGTCTTCAGATGTGTAATACA
TACTGTCAGAGAAACACGGAACCTAGGAAGAGGAAATTAACCTATCTGTACTTATAAGGTGGTTCCCTCTCTCAG
CGAAGTGGTGTTCTTGAATGGTGCACAGGAAGTGTCCCATTTGGTGAATTTCTTGTTAACAATGAAGATGGTGCT
CATAAAAGATACAGGCCAAATGATTTTCAGTGCCTTTTCAGTGCCAAAAGAAAATGATGGAGGTGCAAAAAAAGTCT
TTTGAAGAGAAATATGAAGTCTTCATGGATGTTTGCCAAAATTTTCAACCAGTTTTCCGTTACTTCTGCATGGAA
AAATCTTGGATCCAGCTATTTGGTTTGAGAAGCGATTGGCTTATACGCGCAGTGTAGCTACTTCTTCTATTGTT
GGTTACATACTTGGACTTGGTGATAGACATGTACAGAATATCTTGATAAATGAGCAGTCAGCAGAACTTGTACAT
ATAGATCTAGGTGTTGCTTTTGAACAGGGCAAAATCCTTCCTACTCCTGAGACAGTTCCTTTTAGACTCACCAGA
GATATTGTGGATGGCATGGGCATTACGGGTGTTGAAGGTGCTTTCAGAAGATGCTGTGAGAAAACCATGGAAGTG
ATGAGAAACTCTCAGGAAACTCTGTTAACCATTGTAGAGGTCTTCTATATGATCCACTCTTTGACTGGACCATG
AATCCTTTGAAAGCTTTGTATTTACAGCAGAGGCCGGAAGATGAAACTGAGCTTCACCCTACTCTGAATGCAGAT
GACCAAGAATGCAAACGAAATCTCAGTGATATTGACCAGAGTTTCAACAAAGTAGCTGAACGTGTCTTAATGAGA
CTACAAGAGAAACTGAAAGGAGTGGAAGAAGGCACTGTGCTCAGTGTGGTGGACAAGTGAATTTGCTCATACAG
CAGGCCATAGACCCCAAAATCTCAGCCGACTTTTCCCAGGATGGAAAGCTTGGGTGTGATCTTCAGTATATGAA
TTACCCTTTTCATTAGCCTTTAGAAAATTATATTTTAGCCTTTATTTTAACTGCCAACATACTTTAAGTAGGGA
TTAATATTTAAGTGAACATATTGTGGGTTTTTTTGAATGTTGGTTTTAATACTTGATTTAATCACCCTCAAAAAT
GTTTTGATGGTCTTAAGGAACATCTCTGCTTTCACCTTTTAGAAATAATGGTCATTTCGGGCTGGGCGCAGCGGCT
CACGCCTGTAATCCCAGCACTTTGGGAGGCGGAGGTGAGCGGATCACAAGGTCAGGAGTTCGAGACCAGCCTGGC
CAAGAGACCAGCCTGGCCAGTATGGTGAAACCTGTCTCTACTAAAAATACAAAAATTAGCCGAGCATGGTGGCG
GGCACCTGTAGTCCCAGCTACTCGAGAGGCTGAGGCAGGAGAATCTCTTGAACCTGGGAGGTGAAGGTTGCTGTG
GGCCAAAATCATGCCATTGCACTCCAGCCTGGGTGACAAGAGCGAAACTCCATCTCAAAAA

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FIGURE 906

MTLHEPANSSASQSTDLCDFSGDLDPAPNPPHFP SHVIKATFAYISNCHKTKLKSILEILSKSPDSYQKILLAI
EQAAETNNVYKKHRILKIYHLFVSLLLKDIKSGLGGAFAVLRDVIYTLIHYINQRPSCIMDVSLRSFSLCCDLL
SQVCQTAVTYCKDALENHLHVIVGTLIPLVYEQVEVQKQVLDLLKYLVIDNKNENLYITIKLLDPFPDHFVFKD
LRITQQKIKYSRGPFSLEEINHFSLSVSYDALPLTRLEGLKDLRRQLELHKDQMVDDIMRASQDNPDGIMVKLV
VNLLQLSKMAINHTGEKEVLEAVGSCLEGEVGPIDFSTIAIQHSDKASYTKALKLFEDKELQWTFIMLTYNNTLV
EDCVKVRSAAVTCLKNILATKTGHSFWEIYKMTTDPMLAYLQPFRTSRKKFLEVPRFDKENPFEGLLDINLWIP
SENHDIWIKTLTCAFLDSGGTKCEILQLLKPMCEVKTDFCQTVLPYLIHDILLQDTNESWRNLLSTHVQGFFTS
LRHFSQTSRSTTPANLDSESEHFFRCCLDKKSQRTMLAVVDYMRQRKRPSSGTIFNDAFWLDLNYLEVAKVAQSC
AAHFTALLYAEIYADKKSMDDQEKRSALFEEGSQSTTISSSEKSKEETGISLQDILLLEIYRSIGEPDSLYGCGG
GKMLQPIITRLRTYEHEAMWGKALVTYDLETAIPSSSTRQAGIIQALQNLGLCHILSVYLKGLDYENKDWCPLEEL
HYQAAWRNMQWDHCTSVSKEVEGTSYHESLYNALQSLRDEFSTFYESLKYARVKEVEEMCKRSLESVYSLYPTL
SRLQAIGELESIGELFSRSVTHRQLSEVIYKWKHSQLLKDSDFSQEPIMALRTVILEILMEKEMDNSQRECIK
DILTKHLVELSILARTFKNTQLPERAIFQIKQYNSVSCGVSEWQLEEAQVFWAKKEQSLALSILKQMIKKLDASC
AANNPSLKLTYTECLRVCGNWLAEATCLENPAVIMQTYLEKAVEVAGNYDGESSDELNGKMKAFSLARFSDTOY
QRIENYMKSSFEFENKQALLKRAKEEVGLLREHKIQTNRYTVKVQRELELDELALRALKEDRKRFCKAVENYINC
LLSGEEHDMWVFRCLSLWLENSGVSEVNGMMKRDGMKIPTYKFLPLMYQLAARMGTMMGGLGFHEVLNNLISRI
SMDHPHHTLFILALANANRDEFLLTKPEVARRSRITKNVPKQSSQLDEDRTEANRIICTIRSRPQMVRSEAL
CDAYIILANLDATQWKTQRKGINIPADQPIITKLKNLEDVVVPTMEIKVDHTGEYGNLVTIQSFKAEFRLAGGVNL
PKIIDCVGSDGKERRQLVKGRDDLQDAVMQOVFQMCNTLLQRTETRKRKLTICTYKVVPLSQRSQGVLEWCTGT
VPIGEFLVNEDGAHKRYRPNDFAFQCQKKMMEVQKKSFEKYEVEFMDVCQNFQPVFRYFCMEKFLDPAIWFEK
RLAYTRSVATSSIVGYILGLDRHVQNILINEQSAELVHIDLGVAFEQGKILPTPETVPFRLTRDIVDGMGITGV
EGVFRRCCCKTMEVMRNSQETLLTIVEVLLYDPLFDWTMNPALKALYLQQRPEDETELHPTLNADDQECKRNLSDI
DQSFNKVAERVLMLRLQEKLGVEEGTVLSVGGQVNLLIQQAIDPKNLSRLFPGWKAWV

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FIGURE 907

GCCTGCGCGGTAGTGGGACCCGACCCTGTCTCCAGTGGGCGTCTTGGGCCCCGGCTCTATTCTGGGCTGCGGGCC
TGGGAAGGGCTCGCCGGGTGCCAAATGAGCTGTCTAACTCTGCGGGGCTGCAGCTTCCTGCATGATGCTGGGGA
GCTTGGCGCCTGACCCAGGATCTAGAAGGCACCTCTGGGCAGGCCGCGCTCCGCCCACGAAGGTACCCAACCCTCT
GGGATAGATGCAGGAAGCGATGGTTAAGACCCATTTTCACCCAACCTCTCGCCGCAGGTCTGGCTTACCACACGC
TCCTCCCCATTCCCAGTGAGCCGCTTTTTGCAGCACCAGGCGAACACTTACACCAGTGCTTTGTAAAGGAATCTT
ATTGTCCACCCCGTGTCTTGGCAAAAGAACAGTGATCACACAGATTCTACTTGGGCTCTTTCCTTTAATCTTCG
GAGGCTGAGTTTGCCCAACTCAGGTTTAACCACCAAGGACTCTGAGAGCTGGCAGGTCTGAGTAACCCTGGTAAC
AATTCTCTTCACCTTATCAAAACCTGAGCTAAAACCAATGCATCAGCTGATGATGACAGCAGAGAGTGGCAGGGC
TGAGGACCCAAAGTCATTTCCAGGCTGGCGGAGAATAAACTGCCAGGGAGAAGAATGAGAAGACAGGAGACAAA
CTGTTTGGAAGCTAAATCTTCCCTCTTAATGAATAAAGGTTTTTGCTTGTCTTAAAGTTTCTGAGTCCTAATT
TTGGCAAAATAAATAACTTATGGTAATCTGGAATTGTATTTTGTAATATTAAGTGTTTTGAACCTCTAACATTTA
CTTCCCAAAATCAAACCTTCAGTTTCAAAAT

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FIGURE 908

MMLGSLAPDPGSRRHSGQAALRPPTYTLWDRCKRWLRPIFTQLLAAGLAYHTLLPIPSEPLFAAPGEHLHQCF
VKESYCPPRVLAKEQ

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FIGURE 909

GT TTTGAAAGTTGATGGAGCGAACTGCTTTTCCAAAGACTCTTTTGAAAACTTTTAAAGTAGGCCATTCTGACT
TTAACATTTCTCTTTGTCTTAACATTAGACAAAAAGTAACCTTCCTGAAGAGGACATGTGATTGGAAGTTGTCAA
TTGTTGAAGCATTGGTAACTCCAGTCTCTAACGTTTTAGAAAATCATAACAAGCGGTTCTCTACCCTGTAAAGGT
GAACTACTGAGTTCTTCATTATGCTCTGATGGAGATTATGATTACCTCATCAAGTTTTTAGCTTTGGGAGACTCTG
GTGTAGGGAAGACCAGTGTACTTTACCAATATACAGATGGTAAATTTAACTCCAAATTTATCACAACAGTGGGCA
TTGATTTCAGGGAAAAAAGAGTGGTGTACAGAGCCAGTGGGCCGGATGGAGCCACTGGCAGAGGCCAGAGAATCC
ACCTGCAGTTATGGGACACAGCAGGGCAGGAGAGGTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGG
GTTTTCTTCTACTTTTTGATCTGACAAATGAGCAAAGTTTCCTCAATGTCAGAACTGGATAAGCCAGCTACAGA
TGCATGCATATTGTGAAAACCCAGATATAGTGCTGTGTGGAAACAAGAGTGATCTGGAGGACCAGAGAGTAGTGA
AAGAGGAGGAAGCCATAGCACTCGCAGAGAAATATGGAATCCCCTACTTTGAACTAGTGCTGCCAATGGGACAA
ACATAAGCCAAGCAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACGGTGTGTGGACAAGTCCTGGA
TTCCTGAAGGAGTGGTGGCATCAAATGGTCAATGCTCTACGGATCAGTTAAGTGAAGAAAAGGAGAAAGGGGCAT
GTGGCTGTGAGAAGTCAAGTAAGTGACATAGTAGTTCAGGTGGCCCATGCCTGGGATCTTCTCTATGATTGATA
CATGGCACAGTGAGAGATTAATGGGCATTGTGTACAAATGCTTCTCACCATCCCCATTAGACCTACGAATAAAG
CATCCGGTTCTAAAATTAATTTGTTGCAGCTTGTAAATATTTCTTTAAGATTACAGCTGAGAGTTAGGAGAAAT
ATTTACAGAGCCAAAAGTGCCTTATACAACCTTAGCCTATTATAGTAAATCATTCAAGGATTACAGAAATTTGCAGT
CACAGAAGAGTGTATTTATTATGTAGAATGAATGAGGGTACTGTACCTGCCTTAATGTAGGTAGGCCCAGAGTC
TTACATTTAAGATCTTACATGCAGTTATAAAACCGCCACAGTCTTCAATCCAGATTTGAAGACTCATGCCATAGG
TGACATTCTAAAATACCATTAAAGCCACTFAAATGTTAAATAAGAATATACATGCACATCAGCTCAATGTCTTTG
AGTATTAATTTTATGTAAGCATTCTATTTAACATGAATATAGGACAAATCATGGCTATATCTATAGACCTTGGAT
AAACTGGATTGACCAATTATACACTCACGGTGACTTTTTTATTGGTGGGAAGGGGATTGGGGTGGGGCAGGCTGG
CTTAATGTAATATGAGCAACCAAAGTGGGACTTCTGTCTCCCCGCTATATTCCCATTGCTCTGAATGGTTGATTG
AAGGGTCAGGGAAGTATTTTATGGCTTTAGTTCAGTGTGATTGTACATTTATACTTGGCCTATGTGCTGGCCG
CACCTGAACATAGCTGGTGCTTATGCCGAGTTATTTGTGATGAGTAAATATTTAGTTTCTTTTCTTCATATTTA
TAATGTTGATCTGGCATCCTCAGGCTGCAGCTTTATTAGCTTATAAATTACTCATCTCTGTCTTTACCAGCAGGC
TCTGTATTGTTGATATTTGCAACTTGTTTTGCTTTTCCATTGGTGGAATTGAAATAATTAGTTTTTAATTACATA
AGATGCCTGTTTGCTATTTGGTGGAAGATAGATGTTCAATTGAAGCAGTCACATTTGTACTGTAGTTCAATAAA
AGAAAAATGAAGTATTCTGTAGCCTATATTTTTCATAGAGCTCATGAGCATTTACTGTACTTGCTGGGTCTTGCC
AAGATCATTTATTCCGCTGCATTGCCAAAGTGTCTTCATACCAAATTAAGGTGGTTTTAATATATGTTTCATGG
AAGTTGTTTATAAAATTCAAAGGTATTTCAATTTAGGTGAAAAGTCTTATTTATTAAAGTGGTTTGAATAAAGTAG
ATCAAAACTTCAGAGATCTTAATGGCTATATAGGAAGAAATATCACTCACCATAATTTAAATAAAGAATAAAAA
TACATGTATTTTATGGTGGCAAATGTTTGGTAGAACTGTAATTAGAAAAATACAAGTATATTTGCGTGATGGTTA
CACTAGAAGCCCAGACTTTACGACTACACAATATATTCATGTATCTAACTGTACTTGTAACCCCTAAATTTATT
TTTAAAAA

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FIGURE 910

MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFREKRVVYRASGPDGATGRGQRIHLQLWDT
AGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRVVKEEEAIA
LAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRNNGHASTDQLSEEKEKGACGC

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FIGURE 911

ATTCCTTGCTGTTCTGCCTCACTCCCGAGCTCTACTGACTCCCAAAAGAGCGCCCAAGAAGAAAAATGCCATAAG
TGGAGTCCCTGTGCTAGGATTTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCATGGGCTATCAAAGAAGA
ACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCAGGCGAGTTTATGTTTGACTTTGATGGTGA
TGAGATTTTCCATGTGGATATGGCAAAGAAGGAGACGGTCTGGCGGCTTGAAGAATTTGGACGATTTGCCAGCTT
TGGCTCAAGGTGCATTGGCCAACATAGCTGTGGACAAAGCCAACCTGGAAATCATGACAAAGCGCTCCAACCTA
CCGATCACCAATGTACCTCCAGAGGTAACCTGTGCTCACGAACAGCCCTGTGGAACCTGAGAGAGCCCAACGT
CATCTGTTTCATCGACAAGTTCACCCCAACAGTGGTCAATGTACGTGGCTTCGAAATGGAAAACCTGTCAC
CACAGGAGTGTGAGAGACAGTCTTCCTGCCCAGGGAAGACCACCTTTCCGCAAGTCCACTATCTCCCCTTCCT
TCTCAACTGAGGACGTTTACGACTGCAGGGTGGAGCACTGGGGCTTGGATGAGCCTCTTCTCAAGCACTGGGA
GATGCTCCAAGCCCTCTCCAGAGACTACAGAGAACGTGGTGTGTGCCCTGGGCCTGACTGTGGGTCTGGT
ATCATTATTGGGACCATCTTCATCATCAAGGGAGTGCAGAAAAGCAATGCAGCAGAACGCAGGGGGCCTCT
AAGGCACATGGAGGTGATGATGTTTCTTAGAGAGAAGATCACTGAAGAACTTCTGCTTTAATGACTTTACAA
TGGCAATATTACAATCCTTGACCTCAGTGAAAGCAGTCATCTTCAGCGTTTCCAGCCCTATAGCCACCCCA
GTGGTTATGCCTCCTCGATTGCTCCGTACTCTAACATCTAGCTGGCTTCCCTGTCTATTGCCTTTTCCTGT
ATCTATTTCCCTCTATTTCCCTATCATTTTATTATCACCATGCAATGCCTCTGGAATAAAACATACAGGAGTCTGT
CTCTGCTATGGAATGCCCCATGGGGCTCTCTTGTGTACTTATTGTTTAAGGTTTCCTCAAACCTGTGATTTTTCTG
AACACAATAAACTATTTTGATGATCTTGGGTGGAAAA

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FIGURE 912

MAISGVPVLGFFIIAVLMSAQESWAIKEEHVIIQAEFYLNPDQSGEFMFDFDGDEIFHVDMAKKETVWRLEEFGR
FASFQAQALANIAVDKANLEIMTKRSNYTPITNVPPEVTVLTNSPVELREPNVLCFIDKFTPPVVNVTVLRNG
KPVTTGVSETVFLPREDFHFRKFHYLPFLPSTEDVYDCRVEHWGLDEPLLKHWEFDAPSPLPETTENVVCAALGT
VGLVGIIIGTIFIIGVRKSNAEAERRGPL

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FIGURE 913

TGCGGCCGCACCTGCAGGCGCAGAGTAGGTATGGAAGATCCCTCGAGATCCATTGTGCTCTAAAGCCGCCGGGG
TCCGTGTCTGTCTCGGTTGGCCGGACCCGGGCCCGAGCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCAT
AGACCTGGGCTTCCAGAGCTGCTACGTCGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAG
CGACCGCTGCACGCCGGCTTGCAATTTCTTTTGGTCCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGT
AATTTCTAATGCAAAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGA
GGCAGAAAAATCTAACCTTGCAATATGATATTGTGCAGTGGCCTACAGGATTAACAGGTATAAAGGTGACATATAT
GGAGGAAGAGCGAAATTTTACCAGTGAAGCAAGTGAAGTCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAG
TGTTCTTAAGAAGCCTGTAGTTGACTGTGTTGTTTCGGTTTCCTTGTCTTCTATACTGATGCAGAAAGACGATCAGT
GATGGATGCAACACAGATTGCTGGTCTTAATTGCTTGCGATTAATGAATGAAACCACTGCAGTTGCTCTTGATA
TGGAATCTATAAGCAGGATCTTCCTCGCTTAGAAGAGAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTC
TGCTTATCAAGTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTTGACACGACATT
GGGAGGTAGAAAATTTGATGAAGTGTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACAT
TAAGTCCAAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGC
TTCAGATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAACCTATGAATAGAGGCAAATT
TCTGGAGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCCTTCGTAGTGTGTTTGGAAACAAACCAAGTTAAA
GAAAGAAGATATTTATGCAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAA
ATTTTTCGGTAAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGC
CATCTTATCGCCTGCTTTCAAAGTCAGAGAATTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATG
GAATCTCCAGCTGAAGAAGGGTCAAGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGT
TCTTACATTTTATAGAAAGGAACCTTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGA
TCCTGCTATAGCTCAGTTTTTCAAGTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAGTGAAAGTCAA
AGTTTCGAGTAAATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTTAGTGGAGGTTTACAAGTCTGAGGAAAA
TGAGGAGCCAATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCATGT
TGAAGAGCAACAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATC
CAAGGATAAAAAGATGGACCAACCACCCCAATGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAA
TCGAGAATCAGCTATATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCAT
GCAGGATAAACTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGGAGG

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FIGURE 914

MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAAKSQVISNAKNTVQGFKRFHGRAF
SDPFVEAEKSNLAYDIVQWPTGLTGIKVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVP CFYTD
AERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPRLEEKPRNVVFVDMGHSAYQVSVCAFNRGKLKVLAT
AFDTTLGGRKFDEVLVNHFCEEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPA FKVREFSITDVVPYPISLRWNSPAEEGSSDCEVF SKNHAAPFSKVLT FYRKEPFTLEAYYSSPQ
DLPYPDPAIAQFSVQKVTPQSDGSSSKVKVKVRNVNHGIFSVSSASLVEVHKSEENEPMETDQNAKEEEKMQVD
QEEPHVEEQQQTPAENKAEESEMETSQAGSKDKKMDQPPQCQEGKSEDQYCGPANRESAIWQIDREMLNLYIEN
EGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEK FVSEDDRNSFTLKLED TENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQESEERP NYLKN

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FIGURE 915

GAATCAGGAAGACCAGCTCCTCCTACTGTCTTCTGTGTTACGGGATCAGCGTTCCTTGTTGAGTGGGACCTGAGT
TTTGAGAGGGTCTTCTGCTCCTCTTGGTCTGGTCCCTTACTTCCAAGAGCCCCAGAGAGGAAGGCATGCTGTTGG
CTCTAGCTCTGCTTCTAGCTTTCTGCTCCTGCCAGTCAGAAATCTTCCAACCTTGGAAGGGAGAACAAGTCAG
TCACCAGGCCAACTGGGTCTATCAGCTGTAATCACTTGTGATCTTCTGTAGAAAATGCCGTCTACACCCACTGGT
ACCTACACCAGGAGGGGAAGGCCCCACAGCGTCTTCTGTACTATGACTCCTACAACCTCCAGGGTTGTGTTGGAAT
CAGGAATCAGTCGAGAAAAGTATCATACTTATGCAAGCACAGGGAAGAGCCTTAAATTTATACTGGAAAATCTAA
TTGAACGTGACTCTGGGGTCTATTACTGTGCCACCTGGAAGGATTATTATAAGAACTCTTTGGCAGTGGAACAA
CACTTGTTGTACAGATAAAACAACCTTGATGCAGATGTTTCCCCCAAGCCCACTATTTTCTCCTTCGATTGCTG
AAACAAAACCTCCAGAAGGCTGGAACATATCTTTGTCTTCTTGAGAAATTTTCCAGATATTATTAAGATACATT
GGCAAGAAAAGAAGAGCAACACGATTCTGGGATCCCAGGAGGGGAACACCATGAAGACTAACGACACATACATGA
AATTTAGCTGGTTAACGGTGCCAGAAGAGTCACTGGACAAAGAACACAGATGTATCGTCAGACATGAGAATAATA
AAAACGGAATTGATCAAGAAATTATCTTTCTCCAATAAAGACAGATGTCACCACAGTGGATCCCAAAGACAGTT
ATTCAAAGATGCAAATGATGTCACCACAGTGGATCCCAAATACAATTATTCAAAGGATGCAAATGATGTCATCA
CAATGGATCCCAAAGACAATTGGTCAAAGATGCAAATGATACTACTGCTGCAGCTCACAAACACCTCTGCAT
ATTACATGTACCTCCTCCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATCATCACCTGCTGTCTGCTTGGAAGAA
CGGCTTTCTGCTGCAATGGAGAGAAATCATTAACAGACGGTGGCACAAGGAGGCCATCTTTTCTCATCGGTTATT
GTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTTCTGGGTTTGGGCCATTTAGTTCTCATGTGTGT
ACTATTCTATCATTATTGTATAATGGTTTTCAAACCAGTGGGCACACAGAGAACCTCAGTCTGTAATAACAATGA
GGAATAGCCATGGCGATCTCCAGCACCAATCTCTCCATGTTTTCCACAGCTCCTCCAGCCAACCCAAATAGCGCC
TGCTATAGTGTAGACAGCCTGCGGCTTCTAGCCTTGTCCTCTCTTAGTGTCTTTAATCAGATAACTGCCTGGA
AGCCTTTCAATTTACACGCCCTGAAGCAGTCTTCTTGCTAGTTGAATTATGTGGTGTGTTTTTCCGTAATAAGC
AAAATAAATTT

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FIGURE 916

MLLALALLLAFLPPASQKSSNLEGRTKSVTRPTGSSAVITCDLPVENAVYTHWYLHQEGKAPQRLLYYDSYNSRV
VLESGISREKYHTYASTGKSLKFIENLIERDSGVYYCATWKDYKKLFGSGTTLVVTDKQLDADVSPKPTIFLP
SIAETKLQKAGTYLCLLEKFFPDIIKIHWQEKKSNTILGSQEGNTMKTNDTYMKFSWLTVP EESLDKEHRCIVRH
ENNKNIGIDQEIIFFPIKTDVTTVDPKDSYSKDANDVTTVDPKYNYSKDANDVITMDPKDNWSKDANDTLLQLTN
TSAYMYLLLLLKS VVYFAIITCCLLGRTAFCCNGEKS

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FIGURE 917

GAATTCCTTTTTTTGACTGAGTCTCCCTCTGTACCTAGGCTGGAGTGCAGTGGCACAATCTTGGCTCGCTGCAA
CCTTCACCTTTACCTCCCAGGTGGAAGCGATTCTCCTGCCTCAGTCTCCCGAGTAGCTGGGATTACAGGCGTGC
GCCACCAAATCTGGCTATTTTTTTTATTATTATTATTTTGTAGTAGAGATGGGGTTTACCATTGTTGGCCAGACTGG
TCTTGAACCTCTTGGCCTCAAATTATCTGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCA
TCCCGAGATGACAAGACTAATTTTTTATCCCTTTGGTTTATTGGCTACAACATCTTCTTGAATCAGAGGTGAAT
TTCTTACCTTTGGGATGCCTGAGACTAGGGGAGTATAGAATTCCAATTGGTAATTAAGGCATCTTTCTGCTCC
TATCAGAAGGGCAGGTTAGTTGGGAGAGGTCAGATGGCACAACAGAAGTCACCTTGTAAGTAAGGCAAAGACTT
TAAGGCATTAGCGTTTCTCATTACTAGGTCAATAACCTGAGGGAATCAATGGCTTTTTGCGCTCTACCTCTTGT
TATCTCTTTGACTTTTTCTTTCTCTGTCTAGGGCATTCTGAACTTGTCAATCAGGGACAGGCATTAGAGCCCAA
AGGATGCTTTCCAAGGCCAAGAAGCAGCAGTAATGATGGATCAGAAGGCAGGATTATATGGACAGACATAACCC
TACAGGGGGCCTCCAATGCAAGGAGGCTTTCATCTCAGGGACAATCACCATTCTTTAACTCTATGATGAATCA
TGAACAGCAAGGCAATTTTCTCTCCAAGGAATGCCACGAGGCAACATCATGAGACCCCGGACAAACAC
CCAAGCAACTTAGAATGCAGCTTCAGCAGAGGCTGCAGGGCCAGCAGTTTTTGAATCAGAGCCGACAGGCCT
GAATTGAAAATGGAAAACCTACTGCTGGTGGTGTGCGGTGATGAGGCCTATGATGCAGCCCCAGGTGAGCTC
CAGGAGGGTTTTCTTAATGCTCAAATGGGCGCCCAACGGAGGAGAGAGCTGCTAAGTCATCACTTCCGACAACA
GAGGGTGGCTATGATGATGCAGCAGCAGCAACAGCAGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCA
GCAACAGCAACAGCAACAGCAGCAACAGGAGCAACCCAGGTCTTCAGCCACCTCCTAATGTGACTGCTCCCCC
AGCATGGATGGCTTKYGGCAGGACCCACAATGCCACAAGCTCCTCCGCAACAAGTTTCCAATATCCAACCCCAA
TTATGGGAATGGGGACCAACCAACAAAGATCCAGCCTTTGGGTGAGTGTCTAAGTCTCCCAATGCAATGATGT
CGTCAAGAATGGTCCCTCCCAGAATCCCATGATGCAACACCCGAGGCTGCATCCATCTATCAGTCTCAGAAAT
GAAGGGCTGGCCATCAGGAAATTTGGCCAGGAACAGCTCCTTTTCCAGCAGCAGTTTGCCACCAGGGGAATCC
TGCAGTGTATAGTATGGTGCACATGAATGGCAGCAGTGGTGCATGGGACAGATGAACATGAACCCCATGCCAT
GTCTGGCATGCCTATGGGTCTGATCAGAAATACTGCTGACATCTCTGCACCAGGACCTCTTAAGGAAACCACTG
TACAAATGACACTGCACTAGGATTATTGGGAAGGAATCATTGTTCCAGGCCATCCATCTTGGGAAGAAAGGACC
AGCTTTTGAGCTCCATCAAGGGTATTTTAAAGTATGTCAATTTGAGCAGGACTGGATTTTAAAGCCGAAGGGCAATA
TCCAACGTGTTTTTCCCCCTCCTTCTGCTGTGTATCATGGTGTTCAAAACAGAAATGTTTTTTGGCATTCCAC
CTCCTAGGGATATAATTCTGGAGACATGGAGTGTTACTGATCATAAACTTTTGTGTCACTTTTTTCTGCCTTGC
TAGCCAAAATCTCTTAAATACAGTAGGTGGGCCAGAGAACATTGGAAGAATCAAGAGAGATTAGAATATCTGGT
TTCTCTAGTTGCAGTATTGGACAAAGAGCATAGTCCCAGCCTTCAGGTGTAGTAGTTCTGTGTTGACCCTTTGTC
CAGTGGAAATTGGTGATTCTGAATTGTCCTTTACTAATGTTGTTGAGTTGCTCTGTCCCTATTATTTGCCCTAGCC
TTTCTCCTAATGGGGTTTTTCATTTGCCATTTCATGTCCCTGTAAACTTCACCTCCAGGAAGTGTATGGATGTCC
AAATGGCTTTGCAGAAAGGAATGAGATGACAGTATTTAATCGCAGCAGTAGCAAACCTTTTACATGCTAATGTG
CAGCTGAGTGCACCTTTATTTAAAAGAATGGATAAATGCAATATTCTTGAGGTCTTGAGGGAATAGTGAAACACA
TTCTTGGTTTTTGCCTACACTTACGTGTTAGACAAGAACTATGATTTTTTTTTTAAAGTACTGGTGTACCCCTT
TGCTTATATGGTAGAGCAATAATGCTTTTTTAAAATAAACTTCTGAAAACCCAGGCCAGGTACTGCATTCTGAA
TCAGAATCTCGCAGTGTCTGTGAATAGATTTTTTTGTAAATATGACCTTTAAGATATTGTATTATGTAAATA
TGTATATACCTTTTTTTTGTAGGTGCACAGCGXCTCATTTTTTACAGAGTTTGTGAAGCTAAATATTTAATATTGT
TGATTTCAAGTAAGCTGTGTGGTGGAGGCTXCCAGTGGGAAGAGACATCCCTTGACTTTTGTGGCCTGGGGGAGGGT
AGTGCTCCACAGCTTTTCTTCCCCXCCCCCAGCCTTAGATGCCTCGCTCTTTTCAATCTCTTAATCTAAATGC
TTTTTAAAGAGATTATTTGTTTAGATGTAGGCATTTTAATTTTTTAAAAATTCCTCTACCAGAACTAAGCACTTT
GTTAATTTGGGGGGGAGAATAGATATGGGGGAGAAAAACTTAAAAAAAATCAGGAATTAAAAAAAGCGAGCA
ATTTGAAGAGAATCTTTTGGATTTTAAAGCAGTCCGAAATAATAGCAATTCATGGGCTGTGTGTGTGTGTGTATGT
GTGTGTGTGTGTGTGAATGTTTAAAGTATGTTACCTTTTCATCCCTTTAGGAGCGTTTTTCAGATTTTGGTTGC
TAAGACCTGAATCCCATATTGAGATCTCGAGTAGAATCCTTGGTGTGTTTCTGGTGTCTGCTCAGCTGTCCCT
CATTCTACTAATGTGATGCTTTTATTATGTCCCTGTGGATTAGAATAGTGTGAGTTATTTCTTAAGTAAGTCACT
ACCCAGAACAACAGTTTTTACTGTGATTAGAGCCACAGTCTAACTGAGCACCTTTTAAACCCCTCCCTCTTCTG
CCCCCTACCCTTTTCTGCTGTTGCCTCTCGGAATTC

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FIGURE 919A

ATTTCGCCAGCAGGAGCCGCGCGGTAGATGCGGTGCTTTTAGGAGCTCCGTCCGACAGAACGGTTGGGCCTTG
CCGGCTGTCCGGTATGTCGCGACAGAGACCCTGTACAGCTTCTTCCCCAAGTCTCCGGCGCTGAGTGATGCCAAC
AAGGCTCGGCCAGGGCCTCACGCGAAGGCGGCCGTGCCGCCGTGCCCGGGGCTCTCTTCCCCAGGCGGG
GATGCGGCCTGGAGCGAGGCTGGGCCTGGGCCAGGCCCTTGGCGCGATCCGCGTCACCGCCCAAGGCGAAGAAC
CTCAACGGAGGGCTGCGGAGATCGGTAGCGCCTGCTGCCCCACCAGTTGTGACTTCTCACCAGGAGATTTGGTT
TGGGCCAAGATGGAGGGTTACCCCTGGTGGCCTTGTCTGGTTTACAACCACCCCTTTGATGGAACATTCATCCGC
GAGAAAGGGAAATCAGTCCGTGTTTATGTACAGTTTTTTGATGACAGCCCAACAAGGGGCTGGGTTAGCAAAAGG
CTTTTAAAGCCATATACAGGTTCAAATCAAAGGAAGCCAGAAAGGGAGGTCATTTTTACAGTGCAAGCCTGAA
ATACTGAGAGCAATGCAACGTGCAGATGAAGCCTTAAATAAGACAAGATTAAGAGGCTTGAATTGGCAGTTTGT
GATGAGCCCTCAGAGCCAGAAGAGGAAGAAGAGATGGAGGTAGGCACAACCTTACGTAACAGATAAGAGTGAAGAA
GATAATGAAATTGAGAGTGAAGAGGAAGTACAGCCTAAGACACAAGGATCTAGGCGAAGTAGCCGCCAAATAAAA
AAACGAAGGGTCATATCAGATTCTGAGAGTGACATTGGTGGCTCTGATGTGGAATTTAAGCCAGACACTAAGGAG
GAAGGAAGCAGTGATGAAATAAGCAGTGGAGTGGGGGATAGTGAGAGTGAAGGCCTGAACAGCCCTGTCAAAGTT
GCTCGAAAGCGGAAGAGAATGGTGACTGGAAATGGCTCTCTTAAAGGAAAAGCTCTAGGAAGGAAACGCCCTCA
GCCACCAACAAGCAACTAGCATTTCATCAGAAACCAAGAATACTTTGAGAGCTTTCTCTGCCCTCAAATTTCT
GAATCCCAAGCCCACGTTAGTGGAGGTGGTGATGACAGTAGTCGCCCTACTGTTTGGTATCATGAACTTTAGAA
TGGCTTAAGGAGGAAAAGAGAAGAGATGAGCACAGGAGGAGGCCTGATCACCCCGATTTTGATGCATCTACACTC
TATGTGCCTGAGGATTTCTCAATTCTTGTACTCCTGGGATGAGGAAGTGGTGGCAGATTAACTCTCAGAACTTT
GATCTTGTCTATCTGTTACAAGGTGGGGAAATTTTATGAGCTGTACCACATGGATGCTCTTATTGGAGTCAGTGAA
CTGGGGCTGGTATTTCATGAAAGGCAACTGGGCCATTCTGGCTTTTCTGAAATTGCATTTGGCCGTTATTTCAGAT
TCCCTGGTGCAGAAGGGCTATAAAGTAGCACGAGTGGAAACAGACTGAGACTCCAGAAATGATGGAGGCACGATGT
AGAAAGATGGCACATATATCCAAGTATGATAGAGTGGTGAGGAGGGAGATCTGTAGGATCATTACCAAGGGTACA
CAGACTTACAGTGTGCTGGAAGGTGATCCCTCTGAGAACTACAGTAAGTATCTTCTTAGCCTCAAAGAAAAGAG
GAAGATTCTTCTGGCCATACTCGTGATATGGTGTGTGCTTTGTTGATACTTCACTGGGAAAGTTTTTCATAGGT
CAGTTTTTCAGATGATCGCCATTGTTTCGAGATTTAGGACTCTAGTGGCACACTATCCCCCAGTACAAGTTTTATT
GAAAAGGAAATCTCTCAAAGGAACTAAAACAATTCTAAAGAGTTCAATTGTCTCTTCTTTCAGGAAGGTCTG
ATACCCGGCTCCCAGTTTTGGGATGCATCCAAACTTTGAGAACTCTCCTTGAGGAAGAATATTTTAGGGAAAAG
CTAAGTGATGGCATTGGGGTGATGTTACCCAGGTGCTTAAAGGTATGACTTCAGAGTCTGATTCCATTGGGTTG
ACACCAGGAGAGAAAAGTGAATTGGCCCTCTCTGCTCTAGGTGGTTGTGTCTTCTACCTCAAAAATGCCTTATT
GATCAGGAGCTTTTATCAATGGCTAATTTTGAAGAATATATTCCTTGGAATCTGACACAGTCAGCACTACAAGA
TCTGGTGCTATCTTACCAAAGCCTATCAACGAATGGTGCTAGATGCAGTGACATTAAACAACCTTGGAGATTTTT
CTGAATGGAACAAATGGTTCTACTGAAGGAACCTACTAGAGAGGGTTGATACTTGCCATACTCCTTTTGGTAAG
CGGCTCCTAAAGCAATGGCTTTGTGCCCACTCTGTAACCATTATGCTATTAATGATCGTCTAGATGCCATAGAA
GACCTCATGGTTGTGCCTGACAAAATCTCCGAAGTTGTAGAGCTTCTAAAGAAGCTTCCAGATCTTGAGAGGCTA
CTCAGTAAAATTCATAATGTTGGGTCTCCCTGAAGAGTCAGAACCAACCAGACAGCAGGGCTATAATGTATGAA
GAAACTACATACAGCAAGAAGAAGATTATTGATTTTCTTTCTGCTCTGGAAGGATTCAAAGTAATGTGTAAATTT
ATAGGGATCATGGAAGAAGTTGCTGATGGTTTTAAGTCTAAAATCCTTAAGCAGGTCTCTCTCTGCAGACAAAA
AATCCTGAAGGTCGTTTTCTGATTTGACTGTAGAATTGAACCGATGGGATACAGCCTTTGACCATGAAAAGGCT
CGAAAGACTGGACTTATTACTCCCAAAGCAGGCTTTGACTCTGATTATGACCAAGCTCTTGCTGACATAAGAGAA
AATGAACAGAGCCTCCTGGAATACCTAGAGAAACAGCGCAACAGAATTGGCTGTAGGACCATAGTCTATTGGGGG
ATTGGTAGGAACCGTTACCAGCTGGAAATTCCTGAGAATTTCAACCACTCGCAATTTGCCAGAAGAATACGAGTTG
AAATCTACCAAGAAGGGCTGTAAACGATACTGGACCAAAAATATTGAAAAGAAGTTGGCTAATCTCATAAATGCT
GAAGAACGGAGGGATGTATCATTGAAGGACTGCATGCGGCGACTGTTCTATAACTTTGATAAAAATTACAAGGAC
TGGCAGTCTGCTGTAGAGTGTATCGCAGTGTGGATGTTTTACTGTGCTGGCTAACTATAGTCGAGGGGGTGAT
GGTCTATGTGTGCGCCAGTAATTCTGTTGCCGGAAGATACCCCCCTTCTTAGAGCTTAAAGGATCACGCCAT
CCTTGCAATTACGAAGACTTTTTTTGGAGATGATTTTATTCCTAATGACATTCTAATAGGCTGTGAGGAAGAGGAG
CAGGAAAATGGCAAAGCCTATTGTGTGCTTGTACTGGACCAATATGGGGGGCAAGTCTACGCTTATGAGACAG
GCTGGCTTATTAGCTGTAATGGCCAGATGGGTGTTACGTCCCTGCTGAAGTGTGCAGGCTCACACCAATTGAT

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FIGURE 919B

AGAGTGTTTACTAGACTTGGTGCCTCAGACAGAATAATGTCAGGTGAAAGTACATTTTTTGTGAATTAAGTGAA
ACTGCCAGCATACTCATGCATGCAACAGCACATTCTCTGGTGCTTGTGGATGAATTAGGAAGAGGTACTGCAACA
TTTGATGGGACGGCAATAGCAAATGCAGTTGTTAAAGAACTTGCTGAGACTATAAAATGTCGTACATTATTTTCA
ACTCACTACCATTTCATTAGTAGAAGATTATTCTCAAATGTTGCTGTGCGCCTAGGACATATGGCATGCATGGTA
GAAAATGAATGTGAAGACCCCAGCCAGGAGACTATTACGTTCCCTCTATAAATTCATTAAGGGAGCTTGTCTAAA
AGCTATGGCTTTAATGCAGCAAGGCTTGCTAATCTCCCAGAGGAAGTTATTCAAAGGGACATAGAAAAGCAAGA
GAATTTGAGAAGATGAATCAGTCACTACGATTATTTTCGGGAAGTTTGCCTGGCTAGTGAAAGGTCAACTGTAGAT
GCTGAAGCTGTCCATAAATTGCTGACTTTGATTAAAGGAATTATAGACTGACTACATTGGAAGCTTTGAGTTGACT
TCTGACCAAAGGTGGTAAATTCAGACAAACATTATGATCTAATAAACTTTATTTTTTAAAAATGA

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FIGURE 920

MSRQSTLYSFFPKSPALSDANKASARASREGGRAAAAPGASPSPGGDAAWSEAGPGPRPLARSASPPKAKNLNGG
LRRSVAPAAPTSCDFSPGDLVWAKMEGYPWWPCLVYNHPFDGTFIREKGKSVRVHVQFFDDSPTRGWVSKRLLP
YTGSKSKEAQKGGHFYSAPKEILRAMQRADEALNKDKIKRLELAVCDEPSEPEEEEEEMEVTYVTDKSEEDNEI
ESEEEVQPKTQGSRRSSRQIKKRRVISDSSEDIGGSDVEFKPDTKEEGSSDEISSGVGDSESEGLNSPVKVARKR
KRMVTGNGSLKRKSSRKETPSATKQATSISSETKNTLRAF SAPQNSSESQAHVSGGGDDSSRPTVWYHETLEWLKE
EKRRDEHRRRPDHPDFDASTLYVPEDFLNSCTPGMRKWWQIKSQNFDLVICYKVGKIFYELYHMDALIGVSELGLV
FMKGNWAHSGFPEIAFGRYSDSLVQKGYKVARVEQTETPEMMEARCRKMAHISKYDRVVRREICRIITKGTQTY
VLEGDPSENYSKYLLSLKEKEEDSSGHTRAYGVCFVDTSLGKFFIGQFSDDRHC SRFRTLVAHYPPVQVLFKGN
LSKETKTILKSSLSCSLQEG LIPGSQFWDASKTLRTLLEEEYFREKLSDGIGVMLPQVLKGMTSESDSIGLTPGE
KSELALSALGGCVFYLLKKCLIDQELLSMANFEEYIPLDSDTVSTTRSGAIFTKAYQRMVLDVTLNLEIFLNGT
NGSTEGTLLERVDTCHTPFGKRLKQWLCAPLCNHYAINDRLDAIEDLMVVPDKISEVVELLKKLPDLERLLSKI
HNVSPLKSONHPDSRAIMYEETYSKKKIIDFLSALEGFKVMCKIIGIMEEVADGFKSKILKQVISLQTKNPEG
RFPDLTVELNRWDATFDHEKARKTGLITPKAGFDSYDQALADIRENEQSLLEYLEKQRNRIGCRTIVYWGIGRN
RYQLEIPENFTTRNLPEEYELKSTKKGCKRYWTKTIEKKLANLINAEERRDVSLKDCMRRLFYNFDKNYKDWQSA
VECIAVLVDVLLCLANYSRGGDGPMCRPVILLPEDTPPFLELKGSRHPCITKTFFGDDFIPNDILIGCEEEEQENG
KAYCVLVTGPNMGGKSTLMRQAGLLAVMAQMGCVPAEVCRLTPIDRVFTRLGASDRIMSGESTFFVELSETASI
LMHATAHSLVLVDELGRGTATFDGTAIANAVVKELAETIKRTLSTHYHSLVEDYSQNAVRLGHMACMVENEC
EDPSQETITFLYKFIKGACPKSYGFNAARLANLP EEVIQKGRKAREFEKMNQSLRLFREVLASERSTVDAEAV
HKLLTLIKEL

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FIGURE 921

GAAAAGCCGCCGGTATTTCTCCACCTGGCTCTCCTCTACCTCCAGGCAGGCGCACCCGAGGTCCCCCTCCCA¹CCC
CACCTTCTGCCCTCCCGCACACTTGGACCAGTGCTGTTGACCCGGAAGCGGACATTTCTGCAGCTATTCTAAGCA
CACGTCGGCGGAGGGAGCGGGACGTGGCCAGCGGTGAGCGGCGAAGGAGGCAGGCCCTGCGCGGGGATCACGGAA
GCCCTGTGATTACCA²ATGAAGTTCCAGTACAAGGAGGTCCATCCCTTTGAGTATCGGAAAAAGGAAGGAGAAAAG
ATCCGGAAGAAATATCCGGACAGGGTCCCCTTGATTGTAGAGAAGGCTCCAAAAGCAAGGGTGCCTGATCTGGAC
AGGAGGAAGTACCTAGTGCCCTCCGACCTTACCGATGGCCAGTTCTACCTTTTAATCCGGAAGAGAATCCACCTG
AGACCTGAGGACGCCCTTATTCTTCTTTGTCAACAACACTATCCCTCCCACTAGTGCTACCATGGGCCAACTATAT
GAGGACAGTCATGAGGAAGATGATTTTCTGTATGTGGCTACAGTAATGAGAGTGTCTATGGGAAAT³TGAGTGGTT
GGAAGCCCAGCAGATGGAAGCACCTGGACTTAGGGGTAGGGGAGGGGTGTGTGTGTGACTTGGGGAAAGAGAGGG
CGGCTCCCACCGTGAGGAGACAGAAGGTGAAGACATATAGAACTTTACACCGCACACACCGTCAACGCATTTTC
ACATGCTCAACTGATATTTTTTGTGCTTCCTTGGCCCAGGGAGAAAAGCATGTCAGGACAGAGCTGTTGGATTGG
CTTTGATAGAGGAATGGGGATGATGTAATTTTATGGCATTCCCTGAGATTTAATTTTTTGTGCAGTTTCATAGAAAG
GTCGGTCAGGAGGTGGACAAGTTGGGGTCAGAGATGATGGCAGTCCAGCAGCAACTCCCTGTGCTCCCTTCTCTT
TGGGCAGAGATTCTGTTTTTGTACAGTTGCACAAGACAGGTAGGGAAAGGGGACTTGTGGTAGTGGGCCATACCTG
GGGACGAAAAGAGACCCACTGTAATTGATGCATCGTGGCCCCCGATCTTCCGTATCCCACACTTCTTTTCTCCCA
TCCCAGTTGCAATCTCACTCACAAACATCACAGTACCACCCCAGGGGCGGCAGTAGACACCAACCCAGAAATTTA
GACAGGGATCTCTTATCTTTGGAAAATAGGGGTAGGCATGAGGGTGGTTATGATTAAGAAGATAATTTTGTGTG
TAAATAGCATTAAACTGGAATTGACAGAGTGAGTTGAGCATCTCTGTCTAACCTGCTCTTTCTCTCTGGTGCTCC
TCATCTCACCCCTACCTTGGAATTTAATAAGCTTCAGGCATTTCCAATTGCAGACTAAAACCACTTCTACCATCT
CCTCTAGTATTTTCCATGTATCAGGACAGAGATGTCTTATGTAGGGAAGGGGCAGGTATGAAGTGAGGTAGATTA
TCTATACCTCTCACTCATTGAGGATTCTCGCTCCCATGCTGCTGTCCCTTCATTCTCACACTCACAGGAATGCTA
TGTGATGGCCAGCTGCTTCCCTTCTTGGTTATCCACTGCAGCTGCTAGTTAGAAAGGTTTGCAGGGATGACTTTT
AGTAAATCATGGGGATTTTATTGATTTATTATCACTTATAGGATTTTGTGGGGTGGGAGTGGGGAGCAGGAATTG
CACTCAGACATGACATTTCAATTCATCTCTGCAAATGAAAAGGGTTCTTCCTCTTGGGGGAAATCTGTGTGTCAG
TTCTGTCAGCTGCAAGTTCTTGTGTAATGAAGTCAATGCTGTCTAGGCCAAG

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FIGURE 922

MKFYKEVHPFEYRKKEGEKIRKKYPDRVPLIVEKAPKARVPDLDRRKYLVPDLTDGQFYLLIRKRIHLRPEDA
LFFFVNNTIPPTSATMGQLYEDSHEEDDFLYVAYSNESVYGK

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FIGURE 923

TGTCAAAAGCCTGCACACGAGACCCCCGTGGGCCAGGACTGACTTCCTCCCCACACAGGGCTGGGCGGGGCAAGC
AGGAAGGAGCCTGTTACAGTCAAGGTGACGCATCCTTGCCGGGGCCAGCCCCGAACAGCAGCTGGGTTCGGCAAGCGA
CAGGAGCACGGGTTCATCTTTTCCCCAGAGGCGTCGGAATGGACCTGTGCCACCCAGAGCCCCGCGGAGCTGAGCAG
CGGGGAGACGGAAGAGTTACAGAGGATCAAGTGGCACCAGAAAGCAGCTCCTGGAGGACATCCAGAAGCTGAAGGA
TGAGATTGCAGATGTGTTTGGCCAAATCGACTGCTTCGAGAGTGCAGGAGAGAGCCGGATGGCCCAAGGAGAA
GGAGCTGTGTATTGGGCGCAAGAAGTTCAACATGGACCCCCGCCAAGGGTATCCAGTATTTTCATTGAGCACAAGCT
GCTGACCCCTGACGTCCAGGACATTGCACGGTTCTGTATAAAGGCGAGGGCCTCAACAAGACAGCCATTGGTAC
CTACCTGGGGGAGAGGGATCCCATCAACCTGCAGGTCTCCAGGCCCTTCGTGGACTGCCACGAGTTCGCCAACCT
CAACCTCGTCCAGGCCCTCAGGCAGTTCCTGTGGAGCTTCGGCTGCCGGGCGAGGGCCAGAAGATAGACCGGAT
GATGGAGGCCTTTGCCACTCGATACTGCCTCTGCAACCCAGGCGTCTTCCAGTCCACAGACACCTGCTACGTGTT
GTCTTTCTCCATCATCATGCTCAACACCAGCCTCCACAATCCCAACGTCCGGGACAGGCCCGCCTTTCGAGCGCTT
TGTGTCCATGAACCGCGGCATCAACAATGGTAGCGACCTGCCCGAGGACCAGCTGCCGAACCTCTTCGACAGCAT
CAAGAGTGAGCCATTCTCCATCCCTGAGGACGACGGCAATGACCTCACTCACACCTTCTTCAATCCAGACCGGGA
GGGTTGGCTGCTCAAGCTAGGGGGCGCGTGAAGACGTGGAACGGCGCTGGTTTCATCCTGACCGACAACCTGCCT
CTACTACTTCGAGTTACCACTGACAAGGAGCCACGGGGAATTATACCTCTTGAGAACCTCTCGGTGCAGAAGGT
GGATGACCCCAAGAAGCCATTCTGCCTGGAGCTCTACAACCTAGCTGCCGAGGCCAGAAAATCAAGGCCTGCAA
GACCGATGGCGACGGCAGGGTGGTGGAGGGCAAGCACGAATCGTACCGCATCTCAGCCACCAGTGCCGAGGAACG
TGACCAGTGGATCGAGTCCATCCGAGCCAGCATACCCGTGTCCCTTCTACGACCTGGTCTCTACTCGGAAGAA
GAAGATTGCCAGCAAGCAGTGAGATTCTTGGAGGTGGCACTGGGGGCTGGTCACCTGAGAGTCCCATCGCCTGC
AGCACCTGGAGACCCACCTCCACCCAGTGCACCTCTTTTGGGCCACAGACATCATTGCTGTTCCCGGTTACCTC
GAGCTGACTCTAGAGGGGAAGGCAGAGCTCAGGAGGGTGGGTGGGAGCTGCAGTGGGCTCAGAGTCCAGCAATGA
GGCCCCCTGGCCTGGGCACCCAGCTGCAGGCCCTGCCCTACGTGCACCTACAGGAAGGGGTGAGGAGAGCAGCCA
GAGGAAAACAGCCCCAGAATGCTGCAACTTCTCTTCTCTCTGGACTTCGGTGCTCTCGGCTCTGAAGGCGCTCT
CTGCACTTAGATGCTGTCAGCCCTCAACGTAGGAGGGGCGGTGGGGTCCCTAAGTGATTCTTCTCCCTGGCAAGG
CTCTTCTTTTCAGGGATATCTCTGCCAACCCTTCCCTGTCTCTCGGGTGGGCTTGCCCTCTCTGCCTGAGAG
AGCTCAGCACACACAGCTCAGACCCACGGACAGGACCCCGGGACAGAACCCCGGGAGCACTGCCCTAGGAGCC
TGGACCCACAGAGCTCAGTCCCAGCTCTGCCTCTGACTCGCTGTGTACCTCTGCCAAGTCATGCCCATTTCTCTA
GTTCTTGCAAACTGCAGTGTGTTGGACTAGAAACGTATTGGCCCCCTGTAGCCCTGTGCTCCAGCTTCCAGCTGG
AGATGGCAGCCGTTATTTGCGGAGCCAGGCTGACTCCGGATTCAACGTTGCTGGGGAGAGAAAAGCAGTATAGA
CTCCACCTTCCAGGATGTCCATTTGCGGGAGAGGAGCAGGTGGGACCTCAAGAAAATGACGGAGAACATCCCAG
ACAGATGGGACTCAAGCAGGATGGGTGCTATATCCAAGAAGCCAAGAAGGGAGAGTTTCGTGCACTGTGGTTAAC
AGGAGGGCCGCTGGAGGCAGTGGCTGAGCCAGAAAGTAACACAGAGCTCATGCTTGGAGAGATAGAGTCTTGGC
CATGGCTTTCTGCAAGACCACTGACGAGCAGTCCCATGGTGATAAAGGGCAGCCCGGCGGGTCCCAGCATCTCG
AGACCTCTGCAAGATATTATCAGAGTAGAGCTGACTTCCAGTACCCGGGCAGCCAGCTCTGTCTCCAGGGAGG
CCTGGCCTGGAGGAGGAGTCCACTAACAGGAAACACTTCTCACCCCTCACACAGGCCAGGGGAGCCCTGGAG
GGAAATTCCTTGGCAGGGGAACAGGAAATGTGGTGCCTCTGCCCCACTGCCAGCCTGAGTGGGCAAGGAAGCAG
GTGGATCCCCCAGAAGGAACCGCAGCTCGCGAGGACCTCTCCTCGTCCCCACCCACCCACATTTGCACACCT
TCCACAGGGTCAGGATGGAGTAGCTGCCTTGCGAGGTGGTGAGACTCCTGTCTCTGGAGGTCTGCAAGCACTGGT
AGTGATATTGCAGCAGACAAGGTCTGGGTGGGCGTCTGCAGGAGGAGACCTTGTGGGACATCTGAGGACATCCG
CAGATTCTTGTGAGCCTGTGAACTAGGCCCTGCCTCTGTACCTCATTGGTCCATGAAGGAGCAGCCAGGGGTGG
TGGAAGGAGCACTGGGCTAGGGGTGAGGGTCAAGAGATTCTGTCTGCTCCTGGGATGCACTGGCTACTCCCTTA
GTCTACTCCCTTCCCTCTCTGGTCTCAGCTTCTCCATCATGGAGGAGATGGGATCATGGATTTTCTGGGCAT
AAGTGGCTGTTCTGGGAGTCATTCCAAGAGAGAATAAACTCCTGATCCAAAAA

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FIGURE 924

MDLCHPEPAELSSGETEELQRIKWHRKQLLEDIQKLKDEIADVFAQIDCFESAEESRMAQKEKELCIGRKKFNMD
PAKGIQYFIEHKLLTPDVQDIARFLYKGEGLNKTAIGTYLGERDPINLQVLQAFVDCHEFANLNLVQALRQFLWS
FRLPGEAQKIDRMMEAFATRYCLCNPGVFQSTDTCYVLSFSIIMLNTSLHNPVNRDRPPFERFVSMNRRGINNGSD
LPEDQLRNLFDSEIKSEPFSSIPEDDGNDLTHTFNPDREGWLLKLGGRVKTWKRRWFILTDNCLYYFEFTTDKEPR
GIIPLENLSVQKVDDPKKPFCELYNPSCRQKIKACKTDGDGRVVEGKHESYRISATSAEERDQWIESIRASIT
RVPFYDLVSTRKKKIASKQ

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FIGURE 925

CCGGTCGGATGCCGGACCGGGGGCACCGCTGAGGCGGTGGGTCCCCGACCTGCGAGACAGGTTTGGGAAGCCCCCG
CTGCGCCCAGTCCGTGCGGACCGCGAGGCCGCGGGCGGGTGGAGGCGCGTCTCCGGCACGATGAAGGATTGGGG
GCAGAGCACTTGGCAGGTCATGAAGGGGTCCAACCTCTCGGGTTGTTGAACGTCTACCTGGAACAAGAAGAGAGA
TTCCAACCTCGAGAAAAAGGGCTGAGTTTGATTGAGGCTACCCCGGAGAATGATAACACTTTGTGTCCAGGATTG
AGAAATGCCAAAGTTGAAGATTTAAGGAGTTTAGCCAACTTTTTGGATCTTGCACTGAACTTTTGTCTGGCT
GTCAATATTTTGGACAGGTTCTTGGCTCTTATGAAGGTGAAACCTAAACATTTGTCTTGCACTGGAGTCTGTTCT
TTTTTGCTGGCTGCTAGAAATAGTTGAAGAAGACTGCAATATTCCATCCACTCATGATGTGATCCGGATTAGTCAG
TGAAATGTACTGCTTCTGACATAAAACGGATGGAAAAATAATTTAGAAAAATTGCACTATGAATTGGAAGCT
ACTACTGCCTTAACTTTTTGCACTTATACCATACTATTATACTTTGTCTACTTTCAGAAAGGAAAGAAATACTG
AGCCTTGATAAACTAGAAGCTCAGCTGAAAGCTTGCAACTGCCGACTCATCTTTTCAAAGCAAAACCATCTGTA
TTAGCCTTGTGCCTTCTCAATTTGGAAGTGGAACCTTTGAAATCTGTTGAATTACTGGAAATTCTCTTGCTAGTT
AAAAAACATTCCAAGATTAATGACACTGAGTTCTTCTACTGGAGAGAGTTGGTTTCTAAATGCCTAGCCGAGTAT
TCTTCTCCTGAATGTTGCAAACCAGATCTTAAGAAGTTGGTTTGGATCGTTTCAAGGCGCACAGCCCAGAACCTC
CACAACAGCTACTATAGTGTTCCTGAGCTGCCAACGATACCTGAGGGGGGTTGTTTTGATGAAAGTGAAAGTGAG
GACTCTTGTGAAGATATGAGTTGTGGAGAGGAGAGTCTCAGCAGCTCTCCTCCCAGTGATCAAGAGTGACCTTC
TTTTTCAACTTCAAAGTGGCACAAACACTGTGCTTTCCATCTTAGAAATCTGATTGTTCTGTGAGAATTTATATT
TACAGGGTTTCAAAGCAATAAATGGGGGAATAGGTAGTTTCCTGGTTTAGCCCCCATCTAGTCAGGAATTAATAT
ACTGGAATACCTACCTTCTATTTGTTATTCAGATCAGATCTGGCCTATTTTCATATTTATCCTAAGCCATCAAAT
GGGCTAGTGCCTCTTAAACCATTAAACAGTACTTTAGACATTGGCACTTTATTTTTCTCGTAGATCTTTAGCTACT
TTGGGGAGGAGGAAGGTGCTGATACCTTCAATTTGTTACTTTTCAAGATTTTTAAAAATAACTAGTGTAGCTTA
TCTTAAACATTTTATAAAACCTTCAGATGTCTTTAAGCAGATTGGAAGTATGCAAGTGCTTCCTTAGCAGGGACA
GTGGATAATCCTTAATGGTTTATCATAGATTTACCCCTCCCCCTTCTCAGAAGAGTGAGTATGCTCTTAAATGT
CAAACACATTTTGTGTGTTTTGTTTTTAAATGATCAGTGTCTAATTGATGTGATGCAGATCTTATAAATTTGGG
AATTATAATATTGACATTTCTGTGATTTTATATATGTAATGTCTAATTGAGATTTGTGTTAAGGCAGAAATAA
TTAGGCTAGGGCTCTTAGTTTTCAATTCCTATTGCCCAAGTATTGTCAAACCTATGGTATTATTTAATGTTACTT
TAAAAATCCATAATCTGCTAGTTTTGCATGTACTTATATGAAAACAGTGCAGTAAGTTGAAAACCTCAGTATCTAT
GGAATTGATAAATGTTGATCTGGTGTAGTATATTTATCCGCATTTTCTTATATTAAAAAATGTTCTGCATGATT
ACATTTTATTTGCCTTTGT

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FIGURE 926

MKDLGAEHLAGHEGVQLLGLLNVYLEQEERFQPREKGLSLIEATPENDNTLCPGLRNAKVEDLRSLANFFGSCTE
TFVLAVNILDRLALMKVKPKHLSCIGVCSFLLAARIVEEDCNIPSTHDVIRISQCKCTASDIKRMKIISEKLH
YELEATTALNFLHLYHTIILCHTSERKEILSLDKLEAQLKACNCRLIFSKAKPSVLALCLLNLEVETLKSVELLE
ILLLVKKHISKINDTEFFYWRELVSKCLAEYSSPECCKPDLLKLVWIVSRRTAQNLHNSYYSVPELPTIPEGGCFD
ESESSEDSCEDMSCGEESLSSSPSDQECTFFNFKVAQTLCFPS

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FIGURE 927

CGCAGGCAGGGATACAGTTCCTGCAAGGGGTCCCGGGGGGCGCGGGAGGCGCAGGACGCTAGGCTCTGCCGTCAG
CCCGCAACAGCGCTCAGTCCAGGGAGGGAGGCCCCGGGTGGGGGGCAGCCGTAAGCCCCGCTCAGCGTGCAGCCA
CCGGGGACTTGCGCGGCCGTGGCACCCTGGAGGGGGCGGCCTGGGGCTGGGGCTGCCCGGGCGCCGCGACCG
CCTTCCTTCGCTGCGTCTGCCCCGCCCCACGCCTCGCTCACCGCCGCCGCTTCTCCCTGCCCGCAGCGCGCAGG
GACCATGTCGGCGGAGACCGCGAGCGGCCCCACAGAGGACCAGGTGGAAATCCTGGAGTACAACCTCAACAAGGT
CGACAAGCACCCGGATTCCACCACGCTGTGCCTCATCGCGGCCGAGGCAGGCCTTTCCGAGGAGGAGACCCAGAA
ATGGTTTAAGCAGCGCCTGGCAAAGTGGCGGCGCTCAGAAGGCCTGCCCTCAGAGTGCAGATCCGTACAGACTA
AGGAGATGGCAGGCATTGACAGCTTCACTCCATGAAGGCCATCTCTGTTTCTCTCTCCGCTTAACCAAGCTGTT
GTGGTTTTTTCAGCATAGTGTGTATGTTCCATTGCTAGCTGTCCTGCTGTTTAACACAGTGTGTATTTTTTTTC
TAAATGTACATAATTAGAAAAGAAAATAACAATAGGAAGCTATGTGTATCTTCTGTGTAAAGCAGTGGCTTCACT
GGAAAAATGGTGTGGCTAGCATTTCCCTTTGAGTCATGATGACAGATGGTGTGAAAACCATCTAAGTTTGCTTTT
GACCATCACCTCCAGTAGCAATTTGCTTTCATAATCCATTTAGCAATCCAGGCCTCTGTTGAAAAGATAATATG
AGGGAGAAGGGAACACATTTCTTCTGAACCTACTTCCCTAAGTCACCTTCTTATGTATCATCTAATACAATGA
TGGTTGAGTGAAAATACAGAAGGGGTGTTTGAGTATTCAGATTTTATAAAACACTTCTTGGAAATATAGCTGCAT
TAACTTGGAAGAAGCCTGTTGGGCCAGAAGACAGAACTCCAACCTGGCAAAAAGCAAGCATCTAAGAAAAAAA
ACCACCAAAGTTCTTGAATTTACTATATTTAAATGCATTGGTTAAGTTTATTTTGCTAAATAAAGTGAAGTGCCTT
TTTGTCTCTAAAATGATATTCTAAATAAAACCTTAACTTTTTGTTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 928

MSAETASGPTEDQVEILEYNFNKVDKHPDSTTLCLIAAEAGLSEEETQKWFKQRLAKWRRSEGLPSECRSVTD

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FIGURE 929

CACCTCGCTGCTCCAGCCTCTGGGGCGCATTCCAACCTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTAT
TTTCTTGCCCCATACATACCTTGAGGCGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGCACATCCAG
GCTGGTCAGTGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCACC
GGCACTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCTGTGTACTACAATGAAGCCACAGGTGGCAA
TATGTTCTCTGTCGCATCCTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTTCGCTCAGGTCCTTTTGGCCAG
ATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCTGGGGCAGGTAACAACCTGGGCCAAAGGCCACTACACAGAG
GGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCTTC
CAGCTGACCCACTCACTGGGCGGGGGCACAGGCTCTGGAATGGGCACTCTCCTTATCAGCAAGATCCGAGAAGAA
TACCCTGATCGCATCATGAATACCTTCAGTGTGGTGCCTTCACCCAAAGTGTCTGACACCGTGGTCGAGCCCTAC
AATGCCACCCTCTCCGTCCATCAGTTGGTAGAGAATACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTAT
GATATCTGCTTCCGCACTCTGAAGCTGACCACACCAACCTACGGGGATCTGAACCACCTTGTCTCAGCCACCATG
AGTGGTGTACACACCTGCCTCCGTTTCCCTGGCCAGCTCAATGCTGACCTCCGCAAGTTGGCAGTCAACATGGTC
CCCTTCCACGTCTCCATTTCTTTATGCTTGGCTTTGCCCCCTCTCACCAGCCGTGGAAGCCAGCAGTATCGAGCT
CTCAGTGCAGGAACTCACCAGCAGGTCTTCGATGCCAAGAACATGATGGCTGCCTGTGACCCCCGCCACGGC
CGATACCTCACCCTGGCTGCTGTCTTCCGTGGTCCGATGTCCATGAAGGAGGTGATGAGCAGATGCTTAACGTG
CAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATGTCAAGACAGCCGTCTGTGACATCCACCT
CGTGGCCTCAAGATGGCAGTCACCTTCATTGGCAATAGCACAGCCATCCAGGAGCTCTTCAAGCGCATCTCGGAG
CAGTTCACTGCCATGTTCCGCCGGAAGGCCTTCTCCACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTC
ACCGAGGCTGAGAGCAACATGAACGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAG
GAGGATTTCCGTGAGGAGGCCGAAGAGGAGGCCCTAAGGCAGAGCCCCCATCACCTCAGGCTTCTCAGTTCCCTTA
GCCGTCTTACTCAACTGCCCCCTTCTCTCCCTCAGAATTTGTGTTTGCTGCCTCTATCTTGTTTTTTGTTTTTT
CTTCTGGGGGGGTCTAGAACAGTGCCTGGCACATAGTAGGCGCTCAATAAATACTTGTGTTGTTGAATGCTCCT
CTCTCTTCCACTCTGGGAAACCTAGGTTTCTGCCATTCTGGGTGACCCTGTATTTCTTTCTGGTGCCCATTTCCA
TTTGTCCAGTTAATACTTCTCTTAAAAATCTCCAAGAAGCTGGGTCTCCAGATCCCATTTAGAACCAACCAGGT
GCTGAAAACACATGTAGATAATGGCCATCATCCTAAGCCCAAAGTAGAAAATGGTAGAAGGTAGTGGGTAGAAGT
CACTATATAAGGAAGGGGATGGGATTTTCCATTCTAAAAGTTTGGAGAGGGAAATCCAGGCTATTAAAGTCACT
AAATTTCTAAGTATGTCCATTTCCCATCTCAGCTTCAAGGGAGGTGTCAGCAGTATTATCTCCACTTTCAATCTC
CCTCCAAGCTCTACTCTGGAGGAGTCTGTCCCACTCTGTCAAGTGGAATCCTTCCCTTTCCAACCTCTACCTCCCT
CACTCAGCTCCTTTCCCTGATCAGAGAAAGGGATCAAGGGGGTTGGGAGGGGGGAAAGAGACCAGCCTTGGTCC
CTAAGCCTCCAGAAACGTCTTCTTAATCCCCACCTTTTCTTACTCCAAAAAAGAATGAACACCCCTGACTCTGG
AGTGGTGTATACTGCCACATCAGTGTTTGAGTCAGTCCCCAGAGGAGAGGGGAACCCCTCCTCCATCTTTTTTGCA
ACATCTCATTTCTTCCCTTTTGCTGTTGCTTCCCCCTCACACACTTGGTTTTGTCTATCCTACATTTGAGATTT
CTATTTTATGTTGAACTTGCTGCTTTTTTTCATATTGAAAAGATGACATCGCCCCAAGAGCCAAAAATAAATGGG
AATTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 930

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPGQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQVFDKNMM
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEQMDMEFTEAESNMNDLVSEYQQYQDATAEEEEDFGEEAAAA

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FIGURE 931

GAATTGAACCAACCCATTTTTCCTTTCTTAGCCAAATCACCAAAATGTCCAGTTAGAACAAGAATTTAGCATTCTGC
AAAAGAAGTTAACAGCTGAGATAACGAGGAAATATTCTGAAATGGATCCCAAATATTTTCATCTTAATTTTGT
GTGGACACCTGAACAATACATTTTTTTTCAAAGACAGAGACAATTACAACAGAGAAGCAGTCACAGCCTACCTTAT
TCACATCATCAATGTACAGGTATTGGCTAATTCTCAAAACACAACAGGGAATCCTTTGGGTCAACCAACACAAT
TCAGCGACACTTTTTCTGGACAATCAATATCACCTGCCAAAGTCACTGCTGGACAACCAACACCAGCTGTCTATA
CCTCTTCTGAAAAACCAGAAGCACATACTTCTGCTGGACAACCACTTGCCCTACAACACCAACAACCAACACCAA
TAGCCAACACCTCCTCCAGCAAGCCGTGTTACCTCTGCCAGACAACCTACCATCTGCCCGTACTTCTACCACAC
AACCACCAAAGTCATTTGTCTATACTTTTACTCAACAATCATCATCTGTCCAGATCCCTTCTAGAAAACAAATAA
CTGTTTATAATCCATCCACACAACCAACATCAACTGTCAAAAATTCACCTAGGAGTACACCAGGATTTATCTTAG
ATACTACCAGTAACAAACAAACCCACAAAAAACAATTATAATTCAATAGCTGCCATACTAATTGGTGTACTTC
TGACTTCTATGTTGGTAGCTATAATCATCATTGTACTTTGGAAATGCTTAAGGAAACCAGTTTTAAATGATCAAA
ATTGGGCAGGTAGATCTCCATTTGCTGATGGAGAAACCCCTGACATTTGTATGGATAACATCAGAGAAAATGAAA
TATCCACAAAACGTACATCAATCATTTTCACTTACACCCTGGAAACCAAGCAAAAGCACACTTTTAGCAGATGACT
TAGAAATTAAGTTGTTTGAATCAAGTGAAAACATTGAAGACTCCAACAACCCCAAAACAGAGAAAATAAAAGATC
AAGTAAATGGTACATCAGAAGATAGTGCTGATGGTTCAACAGTTGGAACCTGCTGTTTCTTCTCAGATGATGCAG
GTCTGCCCTCCACCACCTCCCTTCTGGATTTGGAAGGACAGGAAAGTAACCAATCTGACAAACCCACAATGACAA
TTGTATCTCCTCTTCCAAATGATTCTACTAGTCTCCCTCCATCTCTGGACTGTCTCAATCAAGACTGTGGAGATC
ATAAATCTGAGATAATACAATCATTTCCACCGCTTGACTCACTTAACCTGCCCCCTGCCACCAGTAGATTTTATGA
AAAACCAAGAAGATTCCAACCTTGAGATCCAGTGTCAGGAGTTCTCTATTCTCCCAACTCTGATCAAGATCTTA
ATGAATCCCTGCCACCTCCACCTGCAGAACTGTTATATAATATTACAACCTTGCTTTTTTAGCTGATCTTCCATCCTC
AAATGACTCTTTTTTCTTTATATGTTAAACATATATAAAATGGCAACTGATAGTCAATTTTGATTTTTATTCAGGA
ACTATCTGAAATCTGCTCAGAGCCTATGTGCATAGATGAAACTTTTTTTTAAAAAAGTTATTTAACAGTAATCT
ATTTACTAATTATAGTACCTATCTTTAAAGTATAGTACATTTTACATATGTAAATGGTATGTTTCAATAATTTAA
GAACTCTGAAACAATCTACATATACTTATTACCCAGTACAGTTTTTTTTTCCCCTGAAAAGCTGTGTATAAAATTA
TGGTGAATAAACTTTTATGTTTCCATTTCAAAGACCAGGGTGGAGAGGAATAAGAGACTAAGTATATGCTTCAAG
TTTTAAATTAATACCTCAAGTATTAAATAAATATTCCAAGTTTGTGGGAATGGGAGATTAAATGCATGTTTGAG
AGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 932

MDPKYFILILFCGHLNNTFFSKTETITTEKQSQPTLFTSSMSQVLANSQNTTGNPLGQPTQFSDTFSGQSI SPAK
VTAGQPTPAVYTSSEKPEAHTSAGQPLAYNTKQPTPIANTSSQQAVFTSARQLPSARTSTTQPPKSFVYFTQQS
SSVQIPSRKQITVHNPSTQPTSTVKNSPRSTPGFILDTTSNKQTPQKNNYNSIAAILIGVLLTSM LV A I I I I V L W
KCLRKPV LNDQNWAGRSPFADGETPDICMDNIRENEISTKR T S I I S L T P W K P S K S T L L A D D L E I K L F E S S E N I E D
SNNPKTEKIKDQVNGTSEDSADGSTVGTAVSSSDAGLPPPPPLLDLEGQESNQSDKPTMTIVSPLPNDSTSLPP
SLDCLNQDCGDHKSEIIQSFPLDSLNLPLPPVDFMKNQEDSNLEIQCFESIPPNSDQDLNESLPPPPAELL

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FIGURE 933A

AGTTTCCGGGCCCCGGGCTGCTCTCGGAGCCATGAGCTGCGGCCGCCCCCTCCCGACGTGGACGGCATGATCACC
CTCAAGGTGGACAACCTGACCTACCGCACCTCTCCCGACAGCTTGAGGCGCGTGTTCGAGAAGTACGGGCGCGTG
GGCGACGTGTACATCCCGCGGGAGCCCCACACCAAGGCGCCCCGGGGCTTCGCTTTCGTCCGCTTTCACGACCGG
CGCGACGCCCCAAGACGCCGAGGCCGCCATGGACGGGGCGGAGCTGGACGGACGCGAGCTGCGGGTGCAGGTGGCG
CGCTATGGCCGCCGGGACCTGCCCCGACGCCCGAGGGAGAGCCACGCGGCAGGTCCAGAGGCGGCGGCTACGGA
CGGCGGAGCCGCAGCTACGGGCGGCGGAGCCGCAGCCCCAGGCGGCGACACCGCAGCCGATCCCGGGGTCCCAGC
TGCTCCAGGTCCCGCAGCCGATCTCGCTATAGGGGTCTCGCTATAGCCGGTCTCCCTACAGCCGATCTCCTTAC
AGCCGGTTCGCGCTACAGCCGCTCTCCCTACAGCAGATCTCGCTACAGGGAATCTCGCTACGGCGGATCTCACTAC
AGCTCATCTGGTTACAGTAACCTCTCGCTACAGCCGATATCACAGCAGCCGGTCTCACTCGAAGTCTGGGTCTCTCC
ACTAGCTCTCGCTCTGCATCAACCTCCAAATCGAGCTCTGCGCGACGATCCAAGTCTCTCTCGGTCTCCAGGTCT
CGCTCGCGGTCCAGGTCTTCATCTATGACCAGGAGTCTCTCCCGGGTATCCAAGAGGAAATCCAAGTCAAGGTGCG
CGATCCAAGAGGCCCCCAAGTCTCTGAAGAGGAAGGACAGATGTCTCTTAAAGAAAATGATGCATCAGGAAGC
AACGTGATGGAGGACTTGGGGGAAAAGGATCACATACTCAGTCTATGGAAGCAACGTCCCTGGAAGAAGAGGCTG
CCTATTGAAAAGGTTGTGTACACATTTTCTACCTTTTTGCCAGTTTGAAGCTTTGCATCAGGTGGCAAAATTCAT
TCTATGTGCCGTTTTGTGTATTACATTTTATTGTAACCTTAGGAGGTGAACGACCTAAGATTACGTTATTGGG
TTTGATATTTGAGGCAAAATTTATTTTTATTTCTATAGTGATGACTGTTTTGGTTTTGAAATGAACAGATTGGT
AACCTAATTTGTGGCTCCTGACTTTTAAGGAAACGTGTGCAGCCATTACACACAGCCTAACGCTGTCAAGACAT
TGCTTCAACATTGCCTTCATTCTTAAAAACCTACAAAAGGTGGTGTAATTAATATGGATAATTTTATTTACCT
CCAGGTCTAAAAGGTAGTGTGACCCAAATTTGTATAAAGATTTTCATGTGAAAGGACTGGGGTTTTAGCAAACA
CAGGTCTAATCTCTTTTGTGTTTTTGTGCACCGCCCGGCTGCGTAGCAGTTGAGTGATGCTGGTTAGCTATTA
AGGTGGCCTGTTGCAGTGCAGAGTGTGAGCTGCTTCTGTTTTCTTCTGATTGCTCTGGGAAAACACGCCTT
GTCCTGAAGAACAAATGGCTGTCCAGTTTATTAAAAATGCCTGTCAACTGCACTTCCAGTCACCCAGGCCTTGCAG
ATAAATAATGGAGCATGCAGTGAGCACATCTAGCTGACGATAATCACACCTTTTCCCCCGTCTTTTCTGAAAAAT
TGTAATCTGATCATATCAACATGTATGAACTTAAAAATATGGAGAATGTTATGGAAGAAATAGTTTATAAGTTTG
TTAAGTACTTATAACATGGTTTATCTTTTTGATTATTAATTTTTTACGCTAACCATTTGTTTCTGTAGTTAAAAAT
GTTTTCTTGGTGTTATCTTTTCTCAGAATAAAATAGAACTTTTGATGGAAAGTAGGTTGTTTTATTTTCTGTA
TGACTTTTGAATAATTTGTACTTTTGAGAAAATATTAGCACCAAGTGTTTCTCAAAATATAATTTTTAAAAAATC
CTTAAAAAATAAAAAAAAAAACTCGAGACTAGTTCTCTCTCTCCCAAGGAGAAGCAGAGGATCACCACGCTATTC
TCCCCGTCATAGCAGATCTCGCTCTCGTACATAAGATGATTGGTGACACTTTTGTAGAACCCATGTTGTATACA
GTTTTCTTTATTAGTACAATCTTTTCAATTTTTAATTCAAACGTGTTTTGTTTCTGAGTAAAGTGTGAA
TTGCATTCTTGTAAATATCCCCTTGCTCCTAACATCTACATTCCTTCGTGTCTTTGATAAATTGTATTTAAGTG
ATGTCATAGACAGGATTGTTTAAATTTAGTTAACTCCATACTCTTACAGCTGTGATATTGTGTAAATGTCTATCT
GCCCTGGTTTTGTGTGAACTGGGATGTTGGGGGTGTTTGTGGTTATCTTACCTGGGGAAGTTCTTATGTTTATCTT
GCTTTTCATGTGTCTTTCTGTAGACATATCTGAAGAGATGGATTAAGAATGCTTTGGATTAAGGATTGTGGAGCA
CATTTCAATCATTTTAGGATTGTCAAAAGGAGGATTGAGGAGGATCAGATCAATAATGGAGGCAATGGTATGACT
CCAAGTGCTATTGTACAGATGAAATTTGGCAGTATTGACCTTATACTAAAAGGCAGGGGTAAAAATGATTATAT
ACATTTTCCTTAAACACTTGCAAACATTTTATTAGTTGTCTTTAGCTACAATTGCTTTTGTCTTTTAAACCTTG
GCAATTGTGGCAAAATTAATTGCCCATTTTGTAGCAACTTATTTTGTCTCCCTTCCCCCATTTTTGTTTTAATA
GGGACTAATGTGGGAAGAACTGGCTAATTTGTACAGTGCTTAGTTACAACGTGTTAATGTGTGACCTGCTGTTGG
TGTACATGTGGGTACAGGGTGTTTTTAAATCCAACAAGATAGAGTATAATATCAATACTGCTAAATCTGCATGTC
CTCTGTGTGACTGATAGAGCGTTGCTATTTTCAATTTTTTAAGACAAAATGAAAGCAAAATATAGAGTTCCAATGT
ATTGGTGTAGATAATCTAGTTGGGAATACTTTTAAGTCTCACCTTCCCCTTTAAACTAATATTCAATAATTGGTTC
ATATGTTTAAAGACTTTAATTTACAAATTAATTTGCAAATGGGAGCATTAGATTTAGTTTACAGTTAGGTGGG
TAGCAATGCCAGTAACTTAAATTACGTAACCTTCTTGAACCACGAAACCTGTAATACGCTGTACAGTAACAAGT
GTTGGCATTATCAGTTGAACTGTAAATACAAAATGCTTCTTCCAATTAGTCTCTATGATGATTAAGTTTCTAAAA
TTTATCTGAACACCATTTCAGAACTTGTTTTGGGGAATTTGATAGTTATTGATGTGCATCTGTTAACTGATGAC
AGACATAACTCATCATTTCCCCAGAAACCTTTTTTGATTACAGTATCTAACATTTTGCTCTCTTTTTTGGTTTTT
GCTGGTTATAAAGGTTTGGATTGGAGAGGGCTCACTGGATCCCAATCCTTGGAGCTGGATCATTGGATTCAAATC

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FIGURE 933B

ATAATGTGGATAGGATAGGGAGGATGAATTACCAGGATTCATGGAGCGGGATCAGATTACCAGGAACATAGGAGT
GGATTCTGCCCCAACCAAACCGCATTCTGTGGATTTTTTTATTCAACTTAATTGGCTATTCCAAAGATTTTTT
TTTTCTATTTTTGACGATTGGAGCCCTTAAGATGCACGATGGAATTGTGTTTTGCGTTTTTTGGTAAAGGAGC
AAAGCGAGGACCTGGAGATAAACGCTGGAGCAATCTCCTTGGAAGGATTCAGCACGAGTAGATGGTAAACATTTA
TTTGGGAAAGGGGGGTTTGTTTAAATAGTAAATCAGTAAGTCACTTCTAAATTTAAAGAAAACAAAATTGGAG
AAGAATAAGTAGGTTTCCAATTGGCTATTGCCGTTTTTTTTGAAAAAATAAACATTTTTTTAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 934

MSCGRPPPDVDGMITLKVDNLTYRTSPDSLRRVFEKYGRVGDVYIPREPHTKAPRGFAFVRFHRRDAQDAEAAM
DGAELDGRELRVQVARYGRRDLPRSRQGEPRGRSRGGGYGRRSRSYGRRSRSPRRRHRSRSGPSCSRSRSRSY
RGSRYSRSPYSRSPYSRYSRSPYSRYSRYRESRYGGSHYSSSGYSNSRYSRYHSSRSHSKSGSSTSSRSASTSK
SSSARRSKSSSVSRSRSRSSSMTRSPPRVSKRKSKSRSRSKRPPKSPEEEGQMSS

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FIGURE 935

GGCACGAGGGGAGTGGAAGTTCTCCGGCAGCCCTGAGATCTCAAGAGTGACATTTGTGAGACCAGCTAATTTGA
TTAAAATTCTCTTGGAATCAGCTTTGCTAGTATCATACCTGTGCCAGATTTTCATCATGGGAAACAGCTGTTACAA
CATAGTAGCCACTCTGTTGCTGGTCCTCAACTTTGAGAGGACAAGATCATTGCAGGATCCTTGTAGTAAGTGGCC
AGCTGGTACATTCTGTGATAATAACAGGAATCAGATTTGCAGTCCCTGTCCCTCCAAATAGTTTCTCCAGCGCAGG
TGGACAAAGGACCTGTGACATATGCAGGCAGTGTAAGGTGTTTTTCAGGACCAGGAAGGAGTGTTCCCTCCACCAG
CAATGCAGAGTGTGACTGCACTCCAGGGTTTTCACTGCCTGGGGGCAGGATGCAGCATGTGTGAACAGGATTGTAA
ACAAGGTCAAGAAGTACAAAAAAGGTTGTAAAGACTGTTGCTTTGGGACATTTAACGATCAGAAACGTGGCAT
CTGTGACCCCTGGACAAACTGTTCTTTGGATGGAAAGTCTGTGCTTGTGAATGGGACGAAGGAGAGGGACGTGGT
CTGTGGACCATCTCCAGCCGACCTCTCTCCGGGAGCATCCTCTGTGACCCCGCCTGCCCTGCGAGAGAGCCAGG
ACACTCTCCGCAGATCATCTCCTTCTTTCTTGCGCTGACGTGCGTGTGCTCTTCTGCTGTTCTTCTCCTCAC
GCTCCGTTTCTCTGTTGTTAAACGGGGCAGAAAGAACTCCTGTATATATTCAAACAACCATTTATGAGACCAGT
ACAAACTACTCAAGAGGAAGATGGCTGTAGCTGCCGATTTCCAGAAGAAGAAGGAGGATGTGAAGTGTGAAA
TGGAAGTCAATAGGGCTGTTGGGACTTTCTTGAAAAGAAGCAAGGAAATATGAGTCATCCGCTATCACAGCTTTC
AAAAGCAAGAACACCATCCTACATAATACCCAGGATTCCCCAACACACGTTCTTTTCTAAATGCCAATGAGTTG
GCCTTTAAAAATGCACCACCTTTTTTTTTTTTTTTTGGACAGGGTCTCACTCTGTACCCAGGCTGGAGTGCAGTGGC
ACCACCATGGCTCTCTGCAGCCTTGACCTCTGGGAGCTCAAGTGATCCTCCTGCCTCAGTCTCCTGAGTAGCTGG
AACTACAAGGAAGGGCCACCACACCTGACTAACTTTTTTGTGTTTTTGGTTGGTAAAGATGGCATTTCACCATGTT
GTACAGGCTGGTCTCAAACCTCCTAGGTTCACTTTGGCCTCCCAAAGTGCTGGGATTACAGACATGAAGTCCAGG
CCCGGCCAAAATAATGCACCACCTTTTAACAGAACAGACAGATGAGGACAGAGCTGGTGATAAAAAAAAAAAAAA
AAAGCATTTTCTAGATACCACTTAACAGGTTTGAGCTAGTTTTTTTGAAATCCAAAGAAAATTATAGTTTAAATT
CAATTACATAGTCCAGTGGTCCAACCTATAATTATAATCAAAATCAATGCAGGTTTGTGTTTTTGGTGCTAATATGA
CATATGACAATAAGCCACGAGGTGCAGTAAGTACCCGACTAAAGTTTCCGTGGGTTCTGTGATGTAACACGACAT
GCTCCACCGTCAGGGGGGAGTATGAGCAGAGTGCCTGAGTTTAGGGTCAAGGACAAAAACCTCAGGCCTGGAGG
AAGTTTTGGAAGAGTTCAAGTGTCTGTATATCCTATGGTCTTCTCCATCCTCACACCTTCTGCCTTTGTCTCTGC
TCCCTTTTAAGCCAGGTTACATTCTAAAAATCTTAAGTTTAAACATAATATTTTATACCAAAGCCAATAAATGA
ACTGCATATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 936

MGNSCYNIVATLLLVNFERTRSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQRTCDICRQCKGVFRT
KECSSTSNAECDCTPGFHCLGAGCSMCEQDCKQGQELTKKGCKDCCFGTFNDQKRGICRPWTNCSLDGKSVLVN
TKERDVVCGPSPADLSPGASSVTPPAPAREPGHSPQIIISFFLALTSTALLFLLFFLTLLRFSVVKRGRKKLLYIFK
QPFMRPVQTTQEEDGCSCRFPEEEEGGCEL

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FIGURE 937A

ATGGCTGGCGGAGCCTGGGGCCGCCTGGCCTGTTACTTGGAGTTCCTGAAGAAGGAGGAGCTGAAGGAGTTCCAG
CTTCTGCTCGCCAATAAAGCGCACTCCAGGAGCTCTTCGGGTGAGACACCCGCTCAGCCAGAGAAGACGAGTGGC
ATGGAGGTGGCCTCGTACCTGGTGGCTCAGTATGGGGAGCAGCGGGCCTGGGACCTAGCCCTCCATACCTGGGAG
CAGATGGGGCTGAGGTCACTGTGCGCCCAAGCCAGGAAGGGGCAGGCCACTCTCCCTCATTCCCCCTACAGCCCA
AGTGAACCCACCTGGGGTCTCCCAGCCAACCCACCTCCACCGCAGTGCTAATGCCCTGGATCCATGAATTGCCG
GCGGGGTGCACCCAGGGCTCAGAGAGAAGGGTTTTGAGACAGCTGCCTGACACATCTGGACGCCGCTGGAGAGAA
ATCTCTGCCTCACTCTCTACCAAGCTCTTCCAAGCTCCCCAGACCATGAGTCTCCAAGCCAGGAGTCACCCAAC
GCCCCACATCCACAGCAGTGCTGGGGAGCTGGGGATCCCCACCTCAGCCCAGCCTAGCACCCAGAGAGCAGGAG
GCTCCTGGGACCCAATGGCCTCTGGATGAAACGTCAGGAATTTACTACACAGAAATCAGAGAAAGAGAGAGAGAG
AAATCAGAGAAAGGCAGGCCCCCATGGGCAGCGGTGGTAGGAACGCCCCACAGGCGCACACCAGCCTACAGCCC
CACCACCACCCATGGGAGCCTTCTGTGAGAGAGAGCCTCTGTTCCACATGGCCCTGGAAAAATGAGGATTTTAAAC
CAAAAATTCACACAGCTGCTACTTCTACAAAGACCTCACCCAGAAGCCAAGATCCCCCTGGTCAAGAGAAGCTGG
CCTGATTATGTGGAGGAGAATCGAGGACATTTAATTGAGATCAGAGACTTATTTGGCCCAGGCCTGGATACCCAA
GAACCTCGCATAGTCATACTGCAGGGGGCTGCTGGAATTGGGAAGTCAACACTGGCCAGGCAGGTGAAGGAAGCC
TGGGGGAGAGGCCAGCTGTATGGGGACCGCTTCAGCATGTCTTCTACTTTCAGCTGCAGAGAGCTGGCCCCAGTCC
AAGGTGGTGAGTCTCGCTGAGCTCATCGGAAAAGATGGGACAGCCACTCCGGCTCCCATAGACAGATCCTGTCT
AGGCCAGAGCGGCTGCTCTTCATCCTCGATGGTGTAGATGAGCCAGGATGGGTCTTGACAGGAGCCGAGTTCTGAG
CTCTGTCTGCACTGGAGCCAGCCACAGCCGGCGGATGCACTGCTGGGCAGTTTGCTGGGGAAAACATACTTCCC
GAGGCATCCTTCTGATCAGGCTCGGACCACAGCTCTGCAGAACCTCATTCCTTCTTGGAGCAGGCACGTTGG
GTAGAGGTCTGGGGTCTCTGAGTCCAGCAGGAAGGAATATTTCTACAGATATTTACAGATGAAAGGCAAGCA
ATTAGAGCCTTTAGGTTGGTCAAATCAAACAAAGAGCTCTGGGCCCTGTGTCTTGTGCCCTGGGTGTCCTGGCTG
GCCTGCACTTGCCTGATGCAGCAGATGAAGCGGAAGGAAAACTCACACTGACTTCCAAGACCACCACAACCCCTC
TGTCTACATTACCTTGCCCAGGCTCTCCAAGCTCAGCCATTGGGACCCAGCTCAGAGACCTCTGCTCTCTGGCT
GCTGAGGGCATCTGGCAAAAAAGACCCTTTTAGTCCAGATGACCTCAGGAAGCATGGGTTAGATGGGGCCATC
ATCTCCACCTTCTTGAAGATGGGTATTCTTCAAGAGCACCCCATCCCTCTGAGCTACAGCTTCATTACCTCTGT
TTCCAAGAGTTCTTTGCAGCAATGTCTATGTCTTGAGGATGAGAAGGGGAGAGGTAAACATTCTAATTGCATC
ATAGATTTGAAAAGACGCTAGAAGCATATGGAATACATGGCCTGTTTGGGGCATCAACCACACGTTTCTATTG
GGCCTGTTAAGTGATGAGGGGGAGAGAGAGATGGAGAACATCTTTCAGTCCCGGCTGTCTCAGGGGAGGAACCTG
ATGCAGTGGGTCCCGTCCCTGCAGCTGCTGCTGCAGCCACACTCTCTGGAGTCCCTCCACTGCTTGTACGAGACT
CGGAACAAAACGTTTCTGACACAAGTGATGGCCCATTTTCAAGAAATGGGCATGTGTGTAGAAACAGACATGGAG
CTCTTAGTGTGCACTTTCTGCATTAAATTCAGCCGCCACGTGAAGAAGCTTCAGCTGATTGAGGGCAGGCAGCAC
AGATCAACATGGAGCCCCACCATGGTAGTCTGTTCAAGTGGGTCCAGTCACAGATGCCTATTGGCAGATTCTC
TTCTCCGTCCTCAAGGTCACCAGAAAACCTGAAGGAGCTGGACCTAAGTGGAACTCGCTGAGCCACTCTGCAGTG
AAGAGTCTTTGTAAGACCTGAGACGCCCTCGCTGCCTCCTGGAGACCCTGCGGTTGGCTGGCTGTGGCCTCACA
GCTGAGGACTGCAAGGACCTTGCCCTTGGGGCTGAGAGCCAACCAGACCCTGACCGAGCTGGACCTGAGCTTCAAT
GTGCTCACGGATGCTGGAGCCAAACACCTTTGCCAGAGACTGAGACAGCCGAGCTGCAAGCTACAGCGACTGCAG
CTGGTTCAGCTGTGGCCTCACGTCTGACTGCTGCCAGGACCTGGCCTCTGTGCTTAGTGCCAGCCCCAGCCTGAAG
GAGCTAGACCTGCAGCAGAACAACCTGGATGACGTTGGCGTGCAGTCTGCTGTGAGGGGCTCAGGCATCCTGCC
TGCAAACTCATACGCCTGGGGCTGGACCAGACAACCTCTGAGTGATGAGATGAGGCAGGAACTGAGGGCCCTGGAG
CAGGAGAAACCTCAGCTGCTCATCTTCAGCAGACGGAACCAAGTGTGATGACCCCTACTGAGGGCCTGGATACG
GGAGAGATGAGTAATAGCACATCTCACTCAAGCGGCAGAGACTCGGATCAGAGAGGGCGGCTTCCCATGTTGCT
CAGGCTAATCTCAAACCTTGACGTGAGCAAGATCTTCCAATTGCTGAGATTGCAGAGGAAAGCTCCCCAGAG
GTAGTACCGGTGGAACCTTGTGCGTGCCTTCTCCTGCCTCTCAAGGGGACCTGCATACGAAGCCTTTGGGGACT
GACGATGACTTCTGGGGCCCCACGGGGCCTGTGGCTACTGAGGTAGTTGACAAAGAAAAGAACTTGTACCGAGTT
CACTTCCCTGTAGCTGGCTCCTACCGCTGGCCCAACACGGGTCTCTGCTTGTGATGAGAGAAGCGGTGACCGTT
GAGATTGAATTCTGTGTGTGGGACCAGTTTCTGGGTGAGATCAACCCACAGCACAGCTGGATGGTGGCAGGGCCT
CTGCTGGACATCAAGGCTGAGCCTGGAGCTGTGGAAGCTGTGCACCTCCCTCACTTTGTGGCTCTCCAAGGGGGC
CATGTGGACACATCCCTGTTCCAAATGGCCCACTTTAAAGAGGAGGGGATGCTCCTGGAGAAGCCAGCCAGGGTG

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FIGURE 937B

GAGCTGCATCACATAGTTCTGGAAAACCCAGCTTCTCCCCCTTGGGAGTCCTCCTGAAAATGATCCATAATGCC
CTGCGCTTCATTCCCGTCACCTCTGTGGTGTGCTTTACCACCGCGTCCATCCTGAGGAAGTCACCTTCCACCTC
TACCTGATCCCAAGTGACTGCTCCATTGGAAGGCCATAGATGATCTAGAAATGAAATTCCAGTTTGTGCGAATC
CACAAGCCACCCCGCTGACCCCACTTTATATGGGCTGTGCTTACACTGTGTCTGGGTCTGGTTCAGGGATGCTG
GAAATACTCCCCAAGGAACGGAGCTCTGCTATCGAAGCCCTGGAGAAGACCAGCTGTTCTCGGAGTTCTACGTT
GGCCACTTGGGATCAGGGATCAGGCTGCAAGTGAAAGACAAGAAAGATGAGACTCTGGTGTGGGAGGCCTTGGTG
AAACCAGGAGATCTCATGCCTGCAACTACTCTGATCCCTCCAGCCCGCATAGCCGTACCTTCACCTCTGGATGCC
CCGCAGTTGCTGCACTTTGTGGACCAGTATCGAGAGCAGCTGATAGCCCGAGTGACATCGGTGGAGGTTGTCTTG
GACAAACTGCATGGACAGGTGCTGAGCCAGGAGCAGTACGAGAGGGTGCTGGCTGAGAACACGAGGCCAGCCAG
ATGCGGAAGCTGTTTACGCTTGGCCAGTCTGGGACCGGAAGTGCAAAGATGGACTCTACCAAGCCCTGAAGGAG
ACCCATCCTCACCTCATTATGGAACCTCTGGGAGAAGGGCAGCAAAAAGGGACTCCTGCCACTCAGCAGCTGAAGT
ATCAACACCAGCCCTTGACCCCTGAGTCCTGGCTTTGGCTGACCCCTTCTTTGGGTCTCAGTTTCTTTCTCTGCAA
ACAAGTTGCCATCTGGTTTGCCTTCCAGCACTAAAGTAATGGAACCTTGATGATGCCTTTGCTGGGCATTATGTG
TCCATGCCAGGGATGCCACAGGGGGCCCCAGTCCAGGTGGCCTAACAGCATCTCAGGGAATGTCCATCTGGAGCT
GGCAAGACCCCTGCAGACCTCATAGAGCCTCATCTGGTGGCCACAGCAGCCAAGCCTAGAGCCCTCCGGATCCCA
TCCAGGCGCAAAGAGGAATAGGAGGGACATGGAACCATTTGCCCTCTGGCTGTGTACAGGGTGAGCCCCAAAATT
GGGTTTACGCTGGGAGGCCACGTGGATTCTTGGCTTTGTACAGGAAGATCTACAAGAGCAAGCCAACAGAGTAA
AGTGGAAGGAAGTTTATTCAGAAAATAAAGGAGTATCACAGCTCTTTTAGAATTTGTCTAGCAGGCTTTCCAGTT
TTTACCAGAAAACCCCTATAAATTAAAAATTTTACTTAAATTTAAGAATTAAAAAATACAAAAAAGAAAAAA
TGAAAATAAAGGAATAAGAAGTTACCTACTCCAAAAA

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FIGURE 938

MAGGAWGRLACYLEFLKKEELKEFQLLLANKAHSRSSSGETPAQPEKTSGMEVASYLVAQYGEQRAWDLALHTWE
QMGLRSLCAQAQEGAGHSPSPFPYSPSEPHLGSPSQPTSTAVLMPWIHELPAGCTQGSERRVLRQLPDTSGRRWRE
ISASLLYQALPSSPDHESPSQESPNAPTSTAVLGSWGSPQPQSLAPREQEAPGTQWPLDETSGIYYTEIRERERE
KSEKGRPPWAAVVGTPPQAHTSLQPHHHPWEPVRESLCSTWPWKNEFDNQKFTQLLLLQRPHPRSQDPLVKRSW
EENRGHLIEIRDLFPGGLDTQEPRIVILQGAAGIGKSTLARQVKEAWGRGQLYGDRFQHVYFSCRELAQS
LAELIGKDGATATPAPIRQILSRPERLLFILDGVDEPGWVLQEPSSSELCLHWSQPQPADALLGSLGKTILP
FLITARTTALQNLIPSLEQARWVEVLGFSESSRKEYFYRYFTDERQAIRAFRLVKSNNKELWALCLVPVWSWL
ACMLMQMKRKEKLTLSKTTTTLCLHYLAQALQAQPLGQLRDLCSLAAEGIWQKKTLSFDDLRKHGLDGA
FLKMGILQEHPIPLSYFHLCHFQEFFAAMSYVLEDEKGRGKHSNCIIDLEKTLEAYGIHGLFGASTTRFLL
SOEGEREMENIFHCRLSQGRNLMQWVPSLQLLQPHSLESLSHCLYETRNTFLTQVMAHFEEMGMCVETDME
TFCIKFSRHVKKLQLIEGRQHRSTWSPTMVVLFWRVPTDAYWQILFSVLKVRNLKELDLGNSLSHSAV
KTLRRPRCLLETLRLAGCGLTAEDCKDLAFGLRANQTLTDLFNVLTDAKHLQRLRQPSCKLQRLQ
CCGLTSDCCQDLASVLSASPSLKELDLQNNLDDVGVRLLCEGLRHPACKLIRLGLDQTTLSDEMRQELRALE
QKQPQLLIFSRRKPSVMTPTGLDTGEMSNSTSSLKRQRLGSEARAASHVAQANLKLDDVSKIFPIAEIAEESPE
VVPVELLCVPSPASQDLHTKPLGTDDDFWGTGPVATEVVDKEKNLYRVHFPVAGSYRWPNTGLCFVMREAVTV
EIEFCVWDQFLGEINPQHSWMVAGPLLDIKAEPGAVEAVHLPHFVALQGGHVDTSLFQMAHFKEEGMLLEKPARV
ELHHIVLENPSFSPPLGVLLKMIHNALRFIPVTSVVLLYHRVHPEEVTFHLYLIPSDCSIRKAIDDLKMFQFVRI
HKPPPLTPLYMGCRYTVSGSGSMLEILPKELELCYRSPGEDQLFSEFYVGHLSGIRLQVKDKKDETLVWEALV
KPGDIMPATTLIPPARIAVPSPLDAPQLLHFVDQYREQLIARVTSVEVVLDKLHGQVLSQEYERVLAENTRPSQ
MRKLFSLSQSWDRKCKDGLYQALKETHPHLIMELWEKSGSKGLPLSS

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FIGURE 939A

ACAGCACAGACAGATTGACCTATTGGGGTGTTCGCGAGTGTGAGAGGGAAGCGCCGCGGCCTGTATTCTAGAC
CTGCCCTTCGCTTGGTTCGTGGCGCCTTGTGACCCCGGGCCCTGCCGCTGCAAGTCGGAAATTGCGCTGTGCT
CCTGTGCTACGGCCTGTGGCTGGACTGCCTGCTGCTGCCAACTGGCTGGCAAGATGAAGCTCTCCCTGGTGGCC
GCGATGCTGCTGCTGCTCAGCGCGGCGCGGGCCGAGGAGGAGGACAAGAAGGAGGACGTGGGCACGGTGGTCGGC
ATCGACCTGGGGACCACCTACTCCTGCGTCGGCGTGTTCAGAAGCGCCGCTGGAGATCATCGCCAACGATCAG
GGCAACCGCATCACGCCGTCTATGTCGCCTTACTCCTGAAGGGGAACGTCTGATTGGCGATGCCGCCAAGAAC
CAGCTCACCTCCAACCCCGAGAACACGGTCTTTGACGCCAAGCGGCTCATCGGCCGCACGTGGAATGACCCGTCT
GTGCAGCAGGACATCAAGTTCTTGCCGTTCAAGGTGGTTGAAAAGAAAATAAACCATACATTCAAGTTGATATT
GGAGGTGGGCAAACAAAGACATTTGCTCCTGAAGAAATTTCTGCCATGGTTCTCACTAAATGAAAGAAACCGCT
GAGGCTTATTTGGGAAAGAAGGTTACCCATGCAGTTGTTACTGTACCAGCCTATTTTAATGATGCCCAACGCCAA
GCAACCAAAGACGCTGGAATATTGCTGGCCTAAATGTTATGAGGATCATCAACGAGCCTACGGCAGCTGCTATT
GCTTATGGCCTGGATAAGAGGGAGGGGGAGAAGAACATCCTGGTGTGTTGACCTGGGTGGCGGAACCTTCGATGTG
TCTCTTCTCACCATTGACAATGGTGTCTTCGAAGTTGTGGCCACTAATGGAGATACTCATCTGGGTGGAGAAGAC
TTTGACCAGCGTGTATGGAACACTTCATCAAACTGTACAAAAGAACGCGGCAAAGATGTGAGGAAAGACAAT
AGAGCTGTGCAGAACTCCGGCGCGAGGTAGAAAAGGCCAAACGGGCCCTGTCTTCTCAGCATCAAGCAAGAATT
GAAATTGAGTCCTTCTATGAAGGAGAAGACTTTTCTGAGACCCTGACTCGGGCCAAATTTGAAGAGCTCAACATG
GATCTGTTCCGGTCTACTATGAAGCCCGTCCAGAAAGTGTGGAAGATTCTGATTTGAAGAAGTCTGATATTGAT
GAAATTGTTCTTGTGGTGGCTCGACTCGAATTCCAAAGATTCAGCAACTGGTTAAAGAGTTCTTCAATGGCAAG
GAACCATCCCGTGGCATAAACCCAGATGAAGCTGTAGCGTATGGTGTGCTGTCCAGGCTGGTGTGCTCTCTGGT
GATCAAGATACAGGTGACCTGGTACTGCTTGATGTATGTCCCTTACACTTGGTATTGAACTGTGGGAGGTGTC
ATGACCAAACCTGATTCCAAGGAACACAGTGGTGCCTACCAAGAAGTCTCAGATCTTTTCTACAGCTTCTGATAAT
CAACCAACTGTTACAATCAAGGTCTATGAAGGTGAAAGACCCCTGACAAAAGACAATCATCTTCTGGGTACATTT
GATCTGACTGGAATTCCTCCTGCTCCTCGTGGGGTCCCACAGATTGAAGTCACCTTTGAGATAGATGTGAATGGT
ATTCTTCGAGTGACAGCTGAAGACAAGGGTACAGGGAACAAAATAAGATCACAATCACCATGACCAGAATCGC
CTGACACCTGAAGAAATCGAAAGGATGGTTAATGATGCTGAGAAGTTTGCTGAGGAAGACAAAAGCTCAAGGAG
CGCATTGATACTAGAAATGAGTTGGAAAGCTATGCCTATTCTCTAAAGAATCAGATTGGAGATAAAGAAAAGCTG
GGAGGTAAACTTTCTCTGAAGATAAGGAGACCATGGAAAAGCTGTAGAAGAAAAGATTGAATGGCTGGAAAGC
CACCAAGATGCTGACATTGAAGACTTCAAAGCTAAGAAGAAGGAAGTGAAGAAATTTGTTCAACCAATTATCAGC
AAACTCTATGGAAGTGCAGGCCCTCCCCCACTGGTGAAGAGGATACAGCAGAAAAGATGAGTTGTAGACACTG
ATCTGCTAGTGCTGTAATATTGTAAATACTGGACTCAGGAACCTTTTGTTAGGAAAAAATTGAAAGAACTTAAGTC
TCGAATGTAATTGGAATCTTCACCTCAGAGTGGAGTTGAACTGCTATAGCCTAAGCGGCTGTTTACTGCTTTTC
ATTAGCAGTTGCTCAGATGTCTTTGGGTGGGGGGGAGAAGAAGAATTGGCCATCTTAAAAAGCAGGTAAAAACC
TGGGTTAGGGTGTGTGTTACCTTCAAAATGTTCTATTTAACAACCTGGGTGATGTGCATCTGGTGTAGGAAGTTT
TTTCTACCATAAGTGACACCAATAAATGTTTGTATTTTACTGCTAATGTTTGTGAGAAGCTTCTAATTAGA
TCAATTACTTATTTTAGGAAATTTAAGACTAGATACTCGTGTGTGGGGTGAGGGGAGGGAGTATTTGGTATGTTG
GGATAAGGAAACACTTCTATTTAATGCTTCCAGGGATTTTTTTTTTTTTTTTTTAACCTCCTGGGCCCAAGTGA
TCCTTCCACCTCAGTCTCCAGCTAATTGAGACCACAGGCTTGTTACCACCATGCTCGGCTTTTGCATTAATCTA
AGAAAAGGGGAGAGAAGTTAATCCACATCTTACTCAGGCAAGGGGCATTTACAGTGCCCAAGAGTGGGGTTTT
CTTGAACATACTTGGTTTCCTATTTCCCTTATCTTTCTAAAACCTGCCTTTCTGGTGGCTTTTTTAAATTTATT
ACTAATGATGCTTTTATAGCTGCTTGGATTCTCTGAGAAATGATGGGGAGTGAGTGATCACTGGTATTAACCTTA
TACACTTGGATTTTCAATTTGTAACCTTTAGGATGTAAAGGTATATTGTGAACCTAGCTGTGTCAGAATCTCCATCC
CTGAAATTTCTCATTAGTGGTACTGGGGTGGGATCTTGGATGGTGACATTGAACTACACTAAATCCCTCACTA
TGAATGGGTTGTTAAAGGCAATGGTTTGTGTCAAACTGGTTTAGGATTACTTAGATTGTGTTCTGAAGAAAAG
AGTCCAGGTAAATGGTATGATCAATAAAGGACAGGCTGGTGCTAACATAAAATCCAATATTGTAATCCTAGCACT
TTGGGAGGCCAAGGCGGGTGGATCACAAGGTCAAGAGATAGAGACCATCTTGCCAACATGGTGAACTCCATCT
CTACTGAAAATACAAAATTAGCTGGGCGTGGTAGTGCAAGCTGAAGGCTGAGGCAGGAGAATCACTCGAACCCG
GGAGGCAGAGGTTGCAGTGAGCCGAGATCACACCACTGTACTCCAGCCCGGCACTCCAGCCTGGCGACAAGAGTG
AGACTCCACCTCAAAAAAAAAAAAAAGAATCCAATACTGCCCAAGGATAGGTATTTTATAGATGGGCAACTGGCT

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FIGURE 939B

GAAAGGTTAATTCTCTAGGGCTAGTAGAACTGGATCCCAACACCAAACCTCTTAATTAGACCTAGGCCTCAGCTGC
ACTGCCCCGAAAAGCATTGTTGGGCAGACCCTGAGCAGAATACTGGTCTCAGGCCAAGCCCAATACAGCCATTAAAGA
TGACCTACAGTGCTGTGTACCCTGGGGCAATAGGGTTAAATGGTAGTTAGCAACTAGGGCTAGTCTTCCCTTACC
TCAAAGGCTCTCACTACCGTGGACCACCTAGTCTGTAACTCTTTCTGAGGAGCTGTTACTGAATATTAAAAAGAT
AGACTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 940

MKLSLVAAMLLLLSAARAEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTPEGERL
IGDAAKNQLTSNPENTVFDKRLIGRTWNDPSVQQDIKFLPFKVVEKTKPYIQVDIGGGQTKTFAPEEISAMVL
TKMKETAAYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNMRIINEPTAAAIAYGLDKREGEKNILVFDL
GGGTFDVSLLTIDNGVFEVVATNGDTHLGGEDFDQVMEHFIKLYKKKTGKDVRKDNRAVQKLRRREVEKAKRALS
SQHQARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDSDLKKSDIDEIVLVGGSTRIPKIQQLV
KEFFNGKEPSRGINPDEAVAYGAAVQAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQI
FSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKIT
ITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGKLSSEDKETMEKAVEE
KIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDEL

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FIGURE 941A

CGGCCGCCGGCATTGCGCCGCTGGTTCCACGCGACCTGTATCCCCTCGTGCTCGGCTTCCTGCGCGATAACCAAC
TCTCAGAGGTGGCCAATAAGTTCGCCAAAGCGACAGGAGCTACACAGCAGGATGCCAATGCCTCTTCCCTCTTAG
ACATCTATAGCTTCTGGCTCAAGTCTGCCAAGGTCCCAGAGCGAAAGTTACAGGCAAATGGACCAGTGGCTAAGA
AAGCTAAGAAGAAGGCCTCATCCAGTGACAGTGAGGACAGCAGCGAGGAGGAGGAGGAAGTTCAAGGGCCTCCAG
CAAGAAGGCTGCTGTACCTGCCAAGCGAGTCGGTCTGCCTCCTGGGAAGGCTGCAGCCAAAGCATCAGAGAGTA
GCAGCAGTGAAAGAGTCCAGTGATGATGATGATGAGGAGGACCAAAAGAAACAGCCTGTCCAGAAGGGAGTTAAGC
CCCAAGCCAAGGCAGCCAAAGCTCCTCCTAAGAAGGCCAAGAGCTCTGATTCTGATTCTGACTCAAGCTCCGAGG
ATGAGCCACCAAGAACCAGAAGCCAAAGATAACACCTGTGACAGTTAAAGCTCAGACTAAAGCCCCTCCCAAAC
CAGCTCGAGCAGCACCTAAAATAGCCAATGGTAAAGCAGCCAGTAGCAGCAGTAGCAGCAGCAGCAGCAGTAGCA
GTGATGACTCAGAGGAGGAGAAGGCAGCAGCCACCCCCAAGAAGGTCTGGACCATAACTTCTGTGAGGGCAGAGA
CTGTACCTAAAAAGCAAGTTGTGGCCAAGGCCCCAGTGAAAAGCAGCTACCACCCTACCCGGAAGAGTTCTAGCA
GTGAGGATTCTCCAGTGACGAGGAAGAGGAGCAAAAAAACCATGAAAAATAAACAGGTCCCTACAGTTCAG
TCCCCCGCCTTCTGCTCCCCACCAAGAAGTCTCTGGGAACCCAGCCTCCCAAGAAGGCTGTGGAGAAGCAGC
AGCCTGTGGAAAGCAGTGAAGACAGCAGTGATGAGTCTGATTCAAGTTCTGAAGAAGAGAAGAAACCCCCAACTA
AGGCAGTAGTCTCTAAAGCAACCACTAAACCACCTCCAGCAAGAAGCAGCAGAGAGCTCTTCAGACAGCTCAG
ACTCTGACAGCTCTGAGGATGATGAAGCTCCTTCTAAGCCAGCTGGTACCACCAAGAATTCTTCAAATAAGCCAG
CTGTCACCACCAAGTCACCTGCAGTGAAGCCAGCTGCAGCCCCCAAGCAACCTGTGGGCGGTGGCCAGAAGCTTC
TGACGAGAAAGGCTGACAGCAGCTCCAGTGAGGAAGAGAGCAGCTCCAGTGAGGAGGAGAAGACAAAGAAGATGG
TGGCCACCACTAAGCCCCAAGGCGACTGCCAAAGCAGCTCTACCTCTGCCTGCCAAGCAGGCTCCTCAGGGTAGTA
GGGACAGCAGCTCTGATTAGACAGCTCCAGCAGTGAGGAGGAGGAAGAGAAGACATCTAAGTCTGCAGTTAAGA
AGAAGCCACAGAAGGTAGCAGGAGGTGCAGCCCCCTCCAAGCCAGCCTCTGCAAGAAGAAAGGCTGAGAGCA
GCAACAGTTCTTCTTCTGATGACTCCAGTGAGGAAGAGGAAGAGAAGCTCAAGGGCAAGGGCTCTCCAAGACCAC
AAGCCCCCAAGGCCAATGGCACCTCTGCACTGACTGCCCAGAATGGAAAAGCAGCTAAGAACAGTGAGGAGGAGG
AAGAAGAAAAGAAAAGGCGGCAGTGGTAGTTTCCAAATCAGGTTTATTAAAGAAGCGGAAGCAGAATGAGGCTG
CCAAGGAGGCAGAGACTCCTCAGGCCAAGAAGATAAAGCTTCAGACCCCTAACACATTTCCAAAAAGGAAGAAAG
GAGAAAAAGGGCATCATCCCCATTCCGAAGGGTCAGGGAGGAGGAATTGAGGTGGATTACAGAGTTGCGGACA
ACTCCTTTGATGCCAAGCGAGGTGCAGCCGGAGACTGGGGAGAGCGAGCCAATCAGGTTTTGAAGTTCACCAAAG
GCAAGTCCTTTGCGCATGAGAAAACCAAGAAGCGGGGCAGCTACCGGGGAGGCTCAATCTCTGTCCAGGTCA
ATTCTATTAAAGTTTGACAGCGAGTGACCTGAGGCCATCTTCGGTGAAGCAAGGGTGATGATCGGAGACTACTTAC
TTTCTCCAGTGAGACCTGGGAACCTCAGGTCTCTAGGTGAGGGTCTTGATGAGGACAGAAGTTTAGAGTAGGTCC
TAAGACTTTACAGTGTAACATCCTCTCTGGTCTTTTCTGTGTTCTTAGTTTTGTACAGACTTGTTTTGAGTGT
TGAGTAGCAGGGACAAAATAAGGGAATGTTATTTTTTAAGAAAATTCATTTTCATTGTTGTCTCCTTCTTTCT
GTGAAAGTCCTCATACTGAGAAATTTGTATATTTTATATTAATCACTTACTATTGATTTTTGTGTGATTTTCA
AAGGTGGATTCCACAGATAAAATCTTGGCTATTGCCCAAAACATAGTAAAGGGTCACGTGTGACTTTTTATAAT
AGGAAGAAAATCTGCCCTTGTGAGTGCACATGTCCACATTTTCATCCCTCCTTCCCTCAAAACCTTAGAGAGGGG
CATTAAAGAATTGTTGATGTATATGCAATGTCTGTTAAGCATGCACTATGTATTTTCATCCCTCATTTATTGGGTCT
GGGACTGAAGTTTTTAGCCAGCATGGACCTAACCTACTTTTTGGGATAAAATCTCTGTTTTGTACAGGCAAAA
TTCTGGTATGGCGTGAATGCCATGGGTCACTCTGAATATATTTTTTTCTGTAATTTTATCATTACAGCATGTTTG
CAATACGTGCTTTGTTTTTTAATTTGAAAGCAAACCTTTTCTACTGTTGAAAGACATTTTTTGACAACCTTGACCCT
TCCTAGTATTGAGTTCTAAGTTGAGGACTGCATCTTCTCGTTTTTTTACAGTATAGAGAACAAAATGACATTAGTT
TGAAAAATACATATCACTTGGTATTGCTGTCTTGGTTGCAGTGGTGATACAGAATTGGTTTTCATTAAATTCCTACA
TGGTTGAGAATCACTGATCAAGAAAGTGGGGGGAACAAAACGTTAAACCTCAATCCTCAGTAGGAAGGT
AGATTACATTAGGTGAAATTATAGGTAATCTATGTATGTGCTAATGGGGTTGGAAAGAACCTTACAGAGCATATT
ACCTGATAAACTGGAGTGGGTTTGGGAGAACAACTAATAGGATTATTGTGTCTCCTAGTTGGTACCTGGGAGCA
ATTGACATGCCCCCTTCAGAACCTTAAGTTAGTAGCAGTGGCTGTAACAACACAAACCAGTGACCAGAGATAA
CAGCTTTTAGGCCAAGCTGGCCTGACGGTATGGCTGCAGGAAGTGACTGAGCAGTAGCGGTACTCAGCCAGACCA
AGACGGAGAGGGAAGAGTCCACAGCTTTCTGGAAGCTAAGGCATTCTGGTGGTAGAAAAGTGTGCCCCAAGCCTT
CATGGACGAGTTATAGGTCTTAAGATTAGTCTCCTCTTGTGGATTCCATACTTGCTAAATAACCTGATAATAA

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FIGURE 941B

CCTGGTTTTCCATGTAAGTGCCTCTAGGAAGAAAATGTACTGTTTCATGCTGACACAGATATTTTCAGTCTGCATGG
TAAAAGTTCTAAATCTTACTACAAAATAATAAACTGGCTGGTTTATAATGTG

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FIGURE 942A

TCTCACTATAGGGCTCGAGCGGCCCGCCGGGCAGGTCTGACCACAGTGGTTCCGGGGAGAAGCCTTCCAGGACCC
ATGTGTAGGCACAACACTGTTTTCCCTGATCAGGATACTTCCGGCACTCAACAGAGGAAAGAAATTCCCTAAGGGAAC
ACTGCTCAGAAAGTACTGCAGCATGTCTTCAAATGCCTGAGGATCAAGTTGGAAAACCTAGAAGCAACAGAAAACA
CAATAAGCGCAATGCGCGGCCGCGCGGAGCAGCAACAGTTCTACCTGCTGCTGGGAAACCTGCTCAGCCCCG
AATGTGGTCCGGAAACAGGCAGAGGAAACCTATGAGAATATCCAGGCCAGTCAAAGATCACATTCCTCTTAC
CATCAGAAATACAAACAGCTGCTGAAGAGGCTAGACAAATGGCCGCCGTTCTCCTAAGACGTCTCTTGTCTCT
CATTGATGAAGTCTATCCAGCACTTCCCTCTGATGTTTCAGACTGCCATCAAGAGTGAGCTACTCATGATTA
TCAGATGGAAACACAATCTAGCATGAGGAAAAAGTTTGTGATATTGCGGCAGAACTGGCCAGGAATTTAATAG
CAGGATGGCAATAACCAAGTGGCCCGAAGGTTTGAAGTTCTTTTTGATTTCAGTCAGCTCTCAAATGTGGGAC
GGGAAGCTGCCCTTCACATTTTCTGGAACCTTCTGGAATTTTGGGAACAGCAACAACACTATTTAGATG
CAAAACGAATGTTAGTTTCAGTGTATGCAAGATCAGGAACACCCGTCGATCAGGACGTTATCTGCTAGAGCTA
TGCAATTATACTTGCAAATGAGCATAATGTTGCTCTGTTCAAACATTTTGCAGACTTGCTACCGGGATTCC
AGGCGGTAAATGACTCGTGCTACCAGAATGATGATTCTGTCTTAAATCCCTCGTTGAGATTGCAGATACTG
CCAAAGTATTTGCGTCTCTCACTTGAAGCAACTCTACAGCTAAGTCTAAAGTTGTGTGGAGACACTAGCCTCA
ACAATATGCAACGCCAGCTTGCCCTTGAAGTGATCGTCAACCTCTCTGAGACTGCAGCTGCTATGTTAAGAAAAC
AIACCAATATTGTTGCACAGACTATTCCCTCAGATGTTAGCAATGATGGTTGATTGGAAGAAGATGAGGACTGGG
CAATGCAGATGAAGTAGAAGATGATGATTTTGACAGCAATGCAGTTGCAGGCGAGAGTGCTCTAGATCGAATGG
CTTGCGGACTTGGTGGAAAGCTCGTTCTGCCGATGATCAAGGAACACATTATGCAAATGCTTCAAATCCTGACT
GGAAATACCGGCATGCAGGATTGATGGCCTTATCTGCCATTGGTGAAGGTTGCCACCAGCAAATGGAAGGAATTC
TAAATGAGATCGTAAATTTTGTCTTACTTTTCTCCAGGATCCTCATCCAAGAGTAAGGTATGCAGCCTGTAATG
CCGTGGGACAGATGGCTACAGATTTTGCACCTGGTTTCCAAAAGAAATTTTCATGAGAAGGTGATTGCAGCTCTGC
TGCAGACCATGGAAGACCAAGGCAATCAACGTGTGCAGGCCCATGCAGCTGCTGCCCTCATTAACTTTACTGAAG
ACTGTCCCAAGTCACTACTTATTCCATACTTGGATAATTTGGTGAAACATCTGCATTCCATTATGGTACTGAAGC
TTCAAGAGCTGATTAGAAAGGCACCAAGTTAGTTTGGAAACAAGTTGTGACATCCATTGCATCAGTTGCCGATA
CTGCAGAAAGAAAATTTGTCCCTACTATGATTTATTTATGCCATCACTGAAGCACATCGTTGAGAATGCCGTTT
AAAAAGAACTGAGACTTCTGAGAGGAAAACTATTGAATGCATTAGCCTCATTGGTCTGGCTGTTGGGAAGGAAA
AATTCATGCAGGATGCATCAGATGTGATGCAGCTTTTGTAAAGACCCAGACAGACTTCAATGATATGGAAGATG
ATGATCCTCAGATCTCTTACATGATCTCAGCATGGGCCAGAATGTGCAAAATCCTTGGAAAAGAATTCAGCAAT
ACCTTCCAGTGGTTATGGGGCCTTTAATGAAGACGGCTTCAATTAAGCCCGAAGTAGCCCTTTTAGATACCCAAG
ACATGGAGAATATGAGTGATGATGATGGTTGGGAATTTGTGAACCTTGGAGATCAGCAAAGCTTTGGTATTA
CTGCAGGACTAGAAGAAAAATCAACTGCTTGCCAGATGTTGGTTTGCTATGCTAAGGAGTTAAAGGAAGGCTTG
TGGAGTACACCGAACAGGTTGTCAAACCTGATGGTCCCTTTACTGAAATTTTATTTCCACGATGGTGTTCGAGTGG
CAGCAGCGGAATCCATGCCTCTTCTCCTGGAGTGTGCAAGAGTCCGTGGTCTGAGTATCTCACACAGATGTGGC
ATTTTATGTGTGATGCTCTAATTAAGGCCATTGGTACAGAACCAGATTCAGACGTCCTCTCAGAAAATATGCATT
CTTTTGCAAAGTGCAATTGAAGTAATGGGAGATGGATGCCTTAATAATGAACACTTTGAAGAAGTGGGAGGTATAT
TGAAAGCAAAGCTTGAAGAACATTTTAAAAATCAAGAATTACGACAAGTTAAAGACAAGATGAAGACTATGATG
AACAGGTCGAAGAGTCACTACAAGATGAGGATGATAATGATGTTTATATTCTGACCAAAGTGTGAGATATTTTAC
ACTCAATATTCAGTAGCTACAAAGAAAAGGTGTTACCATGGTTTGAACAGCTGCTTCCATTAATTGTCAACCTCA
TTTGTCCACATAGACCATGGCCAGACAGACAATGGGGATTATGCATCTTTGATGATGTCATAGAACACTGTAGTC
CAGCCTCATTTAAATACGCAGAATATTTCTTAAGACCAATGCTCCAATATGTATGTGACAACAGCCCAGAAGTCA
GGCAAGCAGCTGCATATGGCCTGGGAGTCATGGCACAGTACGGTGGAGATAATTATCGCCCTTTTGTACAGAAG
CACTTCCCTGCTGGTAAGAGTTATTTCAGTCTGCGGATTCTAAGACCAAGAAAATGTCAATGCTACAGAGA
GCATCTCAGCAGTAGGGAAAATCATGAAGTTCAAGCCTGACTGTGTAAACGTTGAAGAGGTCCTTCCACACTGGT
TGTCTTGGCTTCCACTACATGAAGATAAAGAAGAAGCTGTTTCAGACTTTCAATTATCTGTGTGACCTGATTGAAA
GTAATCATCCAATTGTTCTTGGCCCAACAATAACCAATCTGCCCAAAATATTTAGTATAATTGCGGAAGGAGAAA
TGCACGAGGCAATTAACATGAAGATCCTTGTGCCAAACGCTTGCCAATGTCGTTCCGAAGTACAGACTTCTG
GAGGACTGTGGACTGAGTGCATAGCACAGCTCAGTCTGAGCAGCAGGCCGCCATTGAGGACTCCTGAACTCTG
CGTGAAGGGCCTTAATGTCACCCACCAGAAAATAACTCCAAATAAACGCTTACCCTTTCTTTAGGTTTCTTTG

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FIGURE 942B

TTTTGTTTTTGAGCAAAAGAGATCGGTAGTGTGTGTGTAGGCCATTCTTCTGGAGAGCCACAAGCAGGAAGAGC
AGCGCTGTGTTGCAGAATGGAGTTTCCATGGATTCTACCAGACCACTGAAGGAGTTCCTGGAAGCCCTGCGTAC
GTAGCACTGAAGACTATTTTTCTATTGGTATAACCCGCCCACCTGAAGGGGAAAGGGAAATCAAATTAATTTTTC
TCGTTAGACATAAGGAAATTTAAGGAAAAACAGCTTTAAGAACAGTTACTCAGCGTAGATGTGTGTTACACAAAA
TTGCCTTGCATTTCAGTGTTCATTGTGAATTGGGAGTGTGAGTCTTCTGTAGGGTACAAAGAAGCCTCCTACCCA
GCAAACCAGTAGACCCAAAAGTTGAAAAAACTGGATGACAGACAACAAGCATGAAGATGGCATATTTGATGTCA
CTTTGGTTCTTTTTCCAGAAGGCTTATACAGTGACTCAGTCGGGAAGCTTTCAGCTTCAGCCCTTGAATGTGA
AGTGTCAATTGGCATGTCTGGCAGTAGTCTCTCATTCACTCCCAATAAACAACATTGAATACAAAAGAGGCTTGTG
TAAAACTCAGTACTGTCTGGCTTGGATTCAATTCATGTTTTTTAATATAAGAATGATCTAATATTTTTTTAAAG
TAATAGCTATCAGTAATAGCTGAGTGTTTTTTCCCCTAATATTTTCTTGTGCAATTCAGACTTAAGCATCGAGT
TTTTACCATCTTCCACTTTAAGCTAAGTTATGATACCTATTCCATTCACAATTGGTGTCTTTTTTAAGGTTTGCA
AATTTAGCCAATTTTGTAGCTAAGATTGTTCTGATCAGCTCAAAAAGATTGGCTTAGTGTTCATTGCAAAT
TATAATTGCTGTAGAGCCACACAACTTTTGAACTTTAAATTATAAGTGTTATGGCTAAAGTTATTTACTGAAA
ATTTAGTAAATGTGTGAATGTTTCTTTATGTATTAACTCATAGCAGTAAATGACTTGCTGTGTTTAAATTTT
TCTAAGGCATCTTAATAGACTTCTCTTGAAAAACCTTTCCAAGGTGTTAACATTTTATAGTTTGTACTAAATT
TAACCGTGATATAAAAAATGAATTTTATGCATAGATCAGAATTTTAAATTAAAGGTTTTTCTTTAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 943

MAAAAAEQQOFYLLLGNNLLSPDNVVRKQAEETYENIPGQSKITFLLQAIRNTTAAEEARQMAAVLLRRLLSSAFD
EVYPALPSDVQTAIKSELLMI IQMETQSSMRKKVCDIAAELARNLIDEDGNNQWPEGLKFLFDSVSSQNVGLREA
ALHIFWNFPGIFGNQQQHYLDVIKRLVQCMQDQEHPSIRTLSARATAAFILANEHNVALFKHFADLLPGFLQAV
NDSCYQNDSDVLKSLVEIADTVPKYLRPHLEATLQLSLKL CGDTSLNMQRLALEVIVTLSETAAAMLKHTNI
VAQTIPQMLAMMVDLEEDWDANADELEDDDFDSNAVAGESALDRMACGLGGKLVLP MIKEHIMQMLQNPDWKYR
HAGLMALSAIGEGCHQQMEGILNEIVNFVLLFLQDPHPRVRYAACNAVGMATDFAPGFQKKFHEKVIAALLQTM
EDQGNQRVQAHAAAALINFTEDCPKSLLIPYLDNLVKHLHSIMVLKLQELIQKGTKLVLEQVVTSIASVADTAE
KFVPPYYDLFMPSLKHIVENAVQKELRLLRGKTI ECISLIGLAVGKEKFMQDASDVMQLLLKTQDFNDMEDDDPQ
ISYMISAWARMCKILGKEFQQYLPVVMGPLMKTASIKPEVALLDTDQDMENMSDDD GWEFVNLGDQQSFGIKTAGL
EEKSTACQMLVCYAKELKEGFVEYTEQVVKLMVPLLKFYFHDGVRVAAAESMPLLECARVRGPEYLTQMWHFMC
DALIKAIGTEPDSDVLSEIMHSFAKCI EVMGDGCLNNEHFEELGGILKAKLEEHFKNQELRQVKRQDEYDEQVE
ESLQDEDDNDVYILTKVSDILHSIFSSYKEKVL PWFEQLLPLIVNLICPHRPWPDRQWGLCIFDDVIEHCSPASF
KYAEYFLRPMLQYVCDNSPEVRQAAAYGLGVMAQYGGDNYPFCTEALPLLVRVIQSADSKTKENVNATENCISA
VGKIMKFKPDCVNVEEVLPHWLSWLPLHEDKEEAVQTFNYLCDLIESNHP IVLGPNNNTNLPKIFSIIAEGEMHEA
IKHEDPCA KRLANVVRQVQTSGGLWTECIAQLSPEQQAIIQELLNSA

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FIGURE 944

CAGTTGCTTCAGCGTCCCGGTGTGGCTGTGCCGTTGGTCCTGTGCGGTCACTTAGCCAAGATGCCTGAGGAAACC
CAGACCCAAGACCAACCGATGGAGGAGGAGGAGGTTGAGACGTTTCGCCTTTCAGGCAGAAATTGCCAGTTGATG
TCATTGATCATCAATACTTTCTACTCGAACAAAGAGATCTTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCA
TTGGACAAAATCCGGTATGAAAGCTTGACAGATCCCAGTAAATTAGACTCTGGGAAAGAGCTGCATATTAACCTT
ATACCGAACAAACAAGATCGAACTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAAT
AACCTTGGTACTATCGCCAAGTCTGGGACCAAAGCGTTTCATGGAAGCTTTGCAGGCTGGTGCAGATATCTCTATG
ATTGGCCAGTTTCGGTGTGGTTTTTATTCTGCTTATTTGGTTGCTGAGAAAGTAACTGTGATCACCAAACATAAC
GATGATGAGCAGTACGCTTGGGAGTCCCTCAGCAGGGGGATCATTACAGTGAGGACAGACACAGGTGAACCTATG
GGTCGTGGAACAAAAGTTATCCTACACCTGAAAGAAGACCAAAGTACTTGGAGGAACGAAGAATAAAGGAG
ATTGTGAAGAAACATTCTCAGTTTATTGGATATCCATTACTCTTTTTGTGGAGAAGGAACGTGATAAAGAAGTA
AGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAGAAAAAGAGAGAAAGAGTCGGAAGACAAA
CCTGAAATTGAAGATGTTGGTCTGATGAGGAAGAAGAAAAGAAAGGATGGTGACAAGAAGAAGAAGAAGATT
AAGGAAAAGTACATCGATCAAGAAGAGCTCAACAAAACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACT
AATGAGGAGTACGGAGAATTCTATAAGAGCTTGACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTITTTCA
GTTGAAGGACAGTTGGAATTCAGAGCCCTTCTATTTGTCCCACGACGTGCTCCTTTTGATCTGTTTGAAAACAGA
AAGAAAAAGAACACATCAAATTGTATGTACGCAGAGTTTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAA
TATCTGAACTTCATTAGAGGGGTGGTAGACTCGGAGGATCTCCCTCTAAACATATCCCGTGAGATGTTGCAACAA
AGCAAAATTTTGAAAGTTATCAGGAAGAATTTGGTCAAAAAATGCTTAGAACTCTTTACTGAACTGGCGGAAGAT
AAAGAGAACTACAAGAAATTCTATGAGCAGTTCTCTAAAAACATAAAGCTTGGAATACACGAAGACTCTCAAAT
CGGAAGAAGCTTTCAGAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTAC
TGCACCAGAAATGAAGGAGAACCAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCA
GCCTTTGTGGAACGTCTTCGGAACATGGCTTAGAAGTGATCTATATGATTGAGCCCATTGATGAGTACTGTGTC
CAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGTGTCAGTCACCAAAGAAGGCCTGGAACCTTCAGAGGATGAA
GAAGAGAAAAAGAAGCAGGAAGAGAAAAAAACAAAGTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAG
AAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACATCTCCATGCTGTATTGTGACAAGCACATATGGC
TGGACAGCAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACTCAACAATGGGTTACATGGCAGCA
AAGAAACACCTGGAGATAAACCTTGACCATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAAC
GACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTATGAAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAAGAT
CCCCAGACACATGCTAACAGGATCTACAGGATGATCAAACTTGGTCTGGGTATTGATGAAGATGACCCTACTGCT
GATGATACCAGTGCTGCTGTAAGTGAAGAAATGCCACCCCTTGAAGGAGATGACGACACATCACGCATGGAAGAA
GTAGACTAA

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FIGURE 945

MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLD SGKE
LHINLIPNKQDRTLTIIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTV
ITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKE
RDKEVSDDEAEKEDKEEEEKEEEEKESDKPEIEDVGSDEEEEEKDGDGDKKKKKIKKEYIDQEELNKTPIWTRN
PDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCE
ELIPEYLNFIIRGVVDSIDLPLNISREMLQQSKILKVRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIH
EDSQNRKKLSELLRYYTSASGDEMVS LKDYCTRMKENQKHIIYYITGETKDQVANS AFVERLRKHGLEVIYMIPI
DEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKTKFENLCKIMKDILEKKVEKVVS NR LVTSPCCIV
TSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSG
FSLEDPQTHANRIYRMIKLG LGIDEDDPTADDTSAAVTEEMP PLEGDDDTSRMEEVD

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FIGURE 946

ATCCCCTCCGGTTTTCTCAGTCTCCACGTACGTCCCTCAAAGCGCGTCCTAAAACCCGGATAACCGGAGCGCTC
CCC**ATG**GACCACACGGAGGGCTTGCCCGCGGAGGAGCCGCCTGCGCATGCTCCATCGCCTGGGAAAATTTGGTGAG
CGGCCTCCACCTAAACGACTTACTAGGGAAGCTATGCGAAATTATTTAAAGAGCGAGGGGATCAAACAGTACTT
ATTCTTCATGCAAAAGTTGCACAGAAAGTCATATGGAAATGAAAAAAGGTTTTTTTGGCCACCTCCTTGTGTATAT
CTTATGGGCAGCGGATGGAAGAAAAAAGAACAAATGGAACGCGATGGTTGTTCTGAACAAGAGTCTCAACCG
TGTGCATTTATTGGGATAGGAAATAGTGACCAAGAAATGCAGCAGCTAAACTTGGAAGGAAAGAACTATTGCACA
GCCAAAACATTGTATATATCTGACTCAGACAAGCGAAAGCACTTCATTTTTTCTGTAAAGATGTTCTATGGCAAC
AGTGATGACATTGGTGTGTTCCCTCAGCAAGCGGATAAAAGTCATCTCCAAACCTTCCAAAAAGAAAGCAGTCATTG
AAAAATGCTGACTTATGCATTGCCTCAGGAACAAAGGTGGCTCTGTTAATCGACTACGATCCCAGACAGTTAGT
ACCAGATACTTGCATGTAGAAGGAGGTAATTTTCATGCCAGTTCACAGCAGTGGGGAGCCTTTTTTATTCATCTC
TTGGATGATGATGAATCAGAAGGAGAAGAATTCACAGTCCGAGATGTCTACATCCATTATGGACAAACATGCAAA
CTTGTGTGCTCAGTTACTGGCATGGCACTCCCAAGATTGATAATTATGAAAGTTGATAAGCATACCGCATTATTG
GATGCAGATGATCCTGTGTCAAACTCCATAAATGTGCATTTTACCTTAAGGATACAGAAAGAATGTATTTGTGC
CTTTCTCAAGAAAGAATAATTCAATTTAGGCCACTCCATGTCCAAAAGAACCAATAAAGAGATGATAAATGAT
GGCGCTTCCTGGACAATCATTAGCACAGATAAGGCAGAGTATACATTTTATGAGGGAATGGGCCCTGTCCTTGCC
CCAGTCACTCCTGTGCCTGTGGTAGAGAGCCTTCAGTTGAATGGCGGTGGGGACGTAGCAATGCTTGAACCTACA
GGACAGAATTTCACTCCAAATTTACGAGTGTGGTTTGGGGATGTAGAAGCTGAAACTATGTACAGGTGTGGAGAG
AGTATGCTCTGTGTCTCCAGACATTTCTGCATTCCGAGAAGGTTGGAGATGGGTCCGGCAACCAGTCCAGGTT
CCAGTAACTTTGGTCCGAAATGATGGAATCATTTATTCCACCAGCCTTACCTTTACCTACACACCAGAACCAGGG
CCACGGCCACATTGCAGTGTAGCAGGAGCAATCCTTCCAGCCAATTCAAGCCAGGTGCCCCCTAACGAATCAAAC
ACAAACAGCGAGGGAAGTTACACAAACGCCAGCACAAATTCAACCAGTGTACATCATCTACAGCCACAGTGGTA
TCCTA

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FIGURE 947

MEHTEGLPAEEPPAHAPSPGKFGGERPPPKRLTREAMRNYLKERGDQTVLILHAKVAQKSYGNEKRFFCPCPPCVYL
MGSGWKKKKEQMERDGCSEQESQPCAFIGIGNSDQEMQQLNLEGKNYCTAKTLYISDSDKRKHFIKSVKMFYGN
DDIGVFLSKRIKVISKPSKKKQSLKNADLCIASGTKVALFNRLRSQTVSTRYLHVEGGNFHASSQQWGAFFIHL
DDDESEGEFTVRDVYIHYGQTCKLVCSVTGMALPRLIIMKVDKHTALLDADDPVSQLHKCAFYLKDTERMYLCL
VRIIQFQATPCPKENKEMINDGASWTIISTDKAEYTFYEGMGPVLAPVTPVPVVESLQLNGGGDVAMLELTG
FNLRVWFGDVEAETMYRCGESMLCVVPDISAFREGWRWVRQPVQVPVTLVRNDGIIYSTSLTFTYTPEPGP
CSVAGAILPANSSQVPPNESNTNSEGSYTNASTNSTSVTSSTATVVS

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FIGURE 948A

CGAAGGACCTGAAGGAAAGTGGAAAAGTCCAAAGTTTAAGATGCCAGAGATGCATTTTAAGACTCCAAAGATATC
CATGCCAGATATTGACCTGAATCTCACAGGTCCAAAATAAAAGGAGATGTGGATGTTACAGGCCCTAAGGTAGA
GGGAGATCTGAAAGGTCTGAAGTTGACCTCAAAGGCCCCAAAGTGGACATTGATGTCCAGATGTTAATGTTCA
GGGTCCAGACTGGCACCTGAAGATGCCCAAGATGAAAATGCCTAAGTTTCAAGTATGCCTGGCTTCAAAGGAGAGGG
CCCAGATGGTGGATGTGAAGCTGCCCATAGGCTGACATTGATGTCTCAGGACCAAAGTGGACATTGAAGGCCCTG
ATGTTAACATTGAAGGACCAGAGGGGAAAGTTGAAAGGGCCTAAGTTCAAGATGCCAGAGATGAATATCAAAGCCC
CCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAGTGAAGGGTGATGTGGATGTTTCCCTTCC
TAAAGTGGAAAGGTGACCTCAAGGGGCCCAGAAGTTGACATCAAGGGCCCCAAAAGTGGACATTGACGCACCTGATGT
TGATGTTTCATGGCCCAGACTGGCACCTAAAGATGCCCAAGATGAAAATGCCCAAGTTCAGCATGCCTGGCTTCAA
AGCAGAGGGCCCCTGAAGCTGGAATGTGAACCTGCCCAAGGCTGACGTTGATGTCTCAGGCCCCAAAGTGGATATT
AATGCCCCAGATGTGGGTGTTCAAGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCAAAGTTCAGC
ATGCCTGGCTTCAAAGGAGAGGGGCCAGATGGGGATGTGAAGCTGCCCAAGGCTGACATTGATGTCTCAGGACCC
AAAGTGGACATTGAAGGCCCTGATGTTAACATTGAAGGACCAGAGGGGAAAGTTGAAAGGGCCTAAGTTCAAGATG
CCAGAGATGAATATCAAAGCCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAG
GGTGATGTGGATGTTTCCCTTCCCTAAAGTGGAAAGGTGACCTCAAGGGGCCCAGAAGTTGACATCAAGGGCCCCAAA
GTGGACATTGACGCACCTGATGTTGATGTTTCATGGCCCAGACTGGCACCTAAAGATGCCCAAGATAAAAATGCCC
AAGATCAGCATGCCTGGCTTCAAAGGAGAAGGTCCAGATGTGGACGTGAACCTGCCCAAGGCTGACATTGATGTCT
TCAGGACCGAAAGTGGATGTTGAATGTCCCGATGTGAATATCGAAGGACCTGAAGGAAAGTGGAAAAGTCCAAAG
TTTAAGATGCCAGAGATGCATTTTAAGACTCCAAAGATATCCATGCCAGATATTGACCTGAATCTCACAGGTCCA
AAAATAAAAGGAGATGTGGATGTTACAGGCCCTAAGGTAGAGGGAGATCTGAAAGGTCCTGAAGTTGACCTCAAA
GGCCCCAAAGTGGACATTGATGTCCAGATGTTAATGTTTCAAGGTCCAGACTGGCACCTGAAGATGCCCAAGATG
AAAATGCCCAAGTTCAGCATGCCTGGCTTCAAAGCAGAGGGCCCTGAAGTGGATGTGAACCTGCCCAAGGCTGAC
GTTGATGTCTCAGGCCCCAAAGTGGACGTTGAAGGCCCTGATGTTAACATTGAAGGACCAGAGGGGAAAGTTGAAA
GGGCCCCAAGTTCAGATGCCAGAGATGAATATCAAAGCCCCAAGATCCCCATGCCTGACTTTGATTTGCATCTG
AAAGGTCCCAAGGTGAAGGGCGATGTGGATATTTCTCTGCCCAAGTGAAGGTGACCTCAAGGGCCCTGAAGTT
GACATCAGGGGTCCCAAAGTGGACATTGATGTCCCGATGTGGGCGTTCAAGGCCCAGACTGGCACCTAAAAATG
CCCAAAGTGAATAATGCCCAAAATTCAGCATGCCTGGCTTCAAAGGAGAGGGGCCAGATGTGGATGTGAACCTGCC
AAGGCTGACCTTGATGTCTCAGGACCCAAGGTGGACATTGATGTTCCAGATGTGAATATCGAAGGCCCAGAGGGA
AAGTTGAAAGGTCCCAAATTCAAAATGCCTGAGATGAACATCAAAGCCCCAAGATCTCCATGCCTGACATTGAT
CTTAACCTGAAAGGTCCCAAAGTGAAGGGTGACATGGATGTGTCTCTGCCAAAAGTGGAAAGGTGACATGAAAGTT
CCTGACGTGGATATTAAAGGCCCCAAAGTGGATATTAAATGCCCCAGATGTGGATGTTCAAGGGCCAGACTGGCAC
CTGAAGATGCCTAAAATAAAAATGCCCAAGATCAGCATGCCTGGCTTCAAAGGAGAAGGTCCAGAAGTGGACGTG
AACCTGCCCAAGGCTGACCTTGACGTCTCAGGACCCAAGGTGGACGTTGATGTTCCAGATGTGAATATTGAAGGT
CCAGATGCGAACTGAAGGGCCCTAAATTCAAGATGCCAGAGATGAACATCAAAGCCCCCAAGATCTCCATGCCT
GACTTTGATTTGCATCTGAAAGGCCCTAAGGTGAAAGGAGATGTGGATGTTTCTCTGCCTAAGATGGAAGGTGAT
CTAAAGGGTCCTGAAGTTGACATCAAGGGCCCCAAAGTGGACATTAATGCTCCAGATGTGGATGTTCAAGGGCCA
GACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAGTTCAGCATGCCTGGCTTCAAAGGAGAGGGGCCAGAT
GTGGATGTGAACCTGCCCAAGGCTGACCTTGATGTCTCAGGACCCAAGGTGGACATTGATGTTTCCCTGATGTGGAT
ATCCGAAGGTCCAGAAGGGGAACTGAAAGGTCCCAAATTCAAGATGCCTGAGATGAGCATCCAAGCCCCCAAGAT
CTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAGTGAAGGGCGATGTGGATGTTACCCTTCCCTAAAGT
GGAAGGTGACCTCAAGGGGCCCAGAAGCTGACATCAAGGGCCCCAAAAGTGGACATCAACACCCCTGATGTGGATGT
TCATGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAAATTCAGCATGCCTGGCTTCAAAGGAGA
AGGTCCAGATGTGGATGTGAACCTGCCCAAGGCTGACATTGATGTCTCAGGACCCAAGTGGACGTTGATGTTCC
TGATGTGAATATCGAAGGTCCAGATGCGAACTAAAGGGCCCCAAGTTCAGATGCCTGAGATGAGCATCAAAGC
CCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAGGGCGATGTGGATGTTACCCT
TCCTAAAGTGGAAAGGTGACCTCAAGGGGCCCAGAAGCTGACATCAAGGGCCCCAAAAGTGGACATCAACACCCCTGA
TGTGGATGTTTCATGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAAATTCAGCATGCCTGGCTT
CAAAGGAGAAGGTCCAGATGTGGATGTGAGCTGCCCAAGGCCGACATCGATGTCTCGGGACCCAAGGTGGACGT

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FIGURE 948B

TGATATTCCAGATGTGAATATCGAAGGTCCAGACGCAAACTGAAGGGCCCCAAGTTCAAGATGCCTGAAATAAA
TATCAAAGCTCCCAAGATCTCCATACCTGATGTTGACCTGGATTGAAAGGACCCAAAGTAAAAGGAGATTTTGA
TGTGTCTGTCCCTAAGGTTGAAGGGACTTTGAAAGGCCCAGAAGTAGATCTTAAAGGTCCACGTCTGGATTTTGA
AGGCCCTGATGCCAAACTCAGTGGCCCATCTTTGAAGATGCCATCGCTGGAGATATCTGCTCCTAAAGTAACTGC
TCCTGATGTTGATTTGCATCTCAAGGCACCAAAAATTGGATTTTCAGGTCCGAAGTTAGAAGGTGGTGAAGTGA
CCTCAAGGGACCCAAAGTTGAAGCTCCAAGCTTAGATGTACACATGGACAGCCAGATATTAACATCGAAGGGCC
AGATGTTAAAATCCCCAAATTTAAGAAACCAAGTTTGGATTTGGGGCAAAAAGCCCCAAAGCTGACATCAAGTC
ACCTTCACTGGATGTCACTGTTCTTGAGGCAGAGCTGAACCTTGAGACTCCTGAAATTAGTGTGGTGGCAAGGG
CAAGAAAAGTAAGTTTAAAATGCCATAAATTCATATGAGTGGTCTTAAGATTAAGGCCAAAAAACAGGGGATTTG
ACCTGAATGTTCTGGGGGTGAAATTGATGCCAGCCTCAAGGCTCCGGATGTAGATGTCAACATCGCAGGGCCGG
ATGCTGCACTCAAAGTCGACGTGAAATCGCCAAAACCAAGAAAACGATGTTTGGAAAAATGTACTTCCCAGATG
TAGAGTTTGACATTAAATCACCTAAATTTAAGCTGAGGCCCTCTCCCTAGCCCCAAACTGGAGGGTGAACCTC
AGGCACCTGATCTGGAACCTTCTTTGCCAGCGATTACGTCGAAGGTCTTGACATCAAGGCGAAGGCTCCCAAGG
TCAAGATGCCAGATGTGGACATCTCAGTGCCAAAATAGAGGGTGACCTGAAAGGGCCCCAAAGTGCAGGCAAACT
TGGGTGCACCTGACATCAACATCGAAGGCCTAGATGCTAAAGTCAAAACACCGTCTTTCGGCATTCTGCCCCCTC
AAGTCTCCATCCCTGATGTGAATGTAACTTGAAAGGACCAAGATAAAGGGTGATGTCCCCAGCGTGGGACTGG
AAGGACCAGATGTAGATCTGCAAGGTCCAGAAGCAAAAATTAAGTTCCCCAAGTTTCCATGCCCAAGATCGGCA
TCCCAGGTGTGAAAATGGAGGGTGGGGGAGCCGAGGTCCATGCCCAGCTACCTCTCTTGAAGGAGACTTGAGAG
GACCAGATGTTAAGCTCGAAGGGCCCGATGTTTCTCTAAAGGGGCCAGGAGTAGACTTGCCTTCAGTGAACCTCT
CTATGCCAAAAGTCTCTGGGCCTGACCTTGATCTGAACCTTGAAAGGACCAAGTTTGAAGGGAGACCTGGATGCAT
CTGTTCCCAGCATGAAGGTGCATGCTCCAGGGCTCAACCTCAGTGGTGTGCGGTGGCAAAATGCAGGTGGGAGGAG
ACGGTGTGAAAGTGCCAGGGATCGATGCCACAACAAAGCTTAACGTTGGGGCACCAGATGTGACACTGAGGGGAC
CAAGCTGCAGGGAGATCTGGCTGTCTCTGGTGACATCAAATGCCCTAAAGTATCCGTAGGAGCTCCTGATCTAA
GCTTGGAGGCATCCGAAGGCAGCATTAAACTTCCCAAAATGAAGCTGCCCAATTTGGCATCTCTACTCCGGGGT
CCGACTTGCACGTCAATGCCAAGGGGCCACAGGTTTCTGGCGAACTGAAGGGGCCAGGTGTGGATGTGAACCTGA
AAGGGCCTCGGATTTTCAGCACCGAATGTGGACTTTAACTTGGAAGGACCAAAAGTGAAGGGGAGCCTTGGGGCCA
CTGGTGAGATCAAAGGGCCCCACTGTCCGAGGAGGTCTTCAGGCATTGGTGTTCAGGCCTAGAAGGAAACCTCC
AGATGCCTGGAATTAAGTCTCTGGATGTGATGTGAACCTGCCAGGCGTGAATGTGAACTCCCAACTGGGCAGA
TTTCTGGGCCTGAAATCAAAGGTGGTCTGAAAGGTTTCAAGAGTAGGTTTCCATGGGGCTGCTCCTGATATCAGTG
TGAAGGGGCCTGCCTTTAATATGGCATCTCCTGAGTCAGATTTTGGCATCAACTTGAAGGGCCCCAAAATCAAAG
GAGGTGCGGATGTTTTAGGGGGTGTGAGTGCCCCAGACATCAGCCTTGGTGAAGGGCATTGTAGTGTAAAGGTT
CCGGGGGTGAGTGGAAGGGACCCCAAGTCTCCTCTGCTCTCAACTTGGACACATCTAAGTTTGTCTGGGGGCTTC
ATTTCTCAGGACCAAAGGTGGAAGGAGGTGTGAAAGGAGGTGAGATTGGACTCCAGGCTCCTGGGCTGAGTGTGT
CTGGGCCTCAAGGTCACTTGGAAAGTGGATCTGGAAGGTAACATTCCCTAAAATGAAGATCCCCAAATTTACCT
TCTCTGGCCGTGAGCTGGTTGGCAGAGAAATGGGGGTGGATGTTCACTTCCCTAAAGCAGAGGCCAGCATCCAAG
CTGGTGTGAGAGACGGCGAGTGGGAAGAGTCTGAAGTCAAAGTGAAGGAGTCCAAGATCAAAATGCCCAAGTTTA
ATTTTTCCAAACCTAAAGGGAAAGGTGGTGTCACTGGCTCACCAGAAGCATCAATTTCTGGGTCCAAAGGTGACC
TGAAAAGTTCAAAGGCCAGCCTGGGCTCTCTGGAAGGAGAGGCAGAGGCCGAAGCCTCTTCACCGAAAGGCAAT
TCTCCTTATTTAAAAGTAAGAAGCCACGGCACCGCTCAAATTCATTAGTGTGAAAGAGAGTTCTCTGGACCTT
CCACCCCGACGGGGACGCTGGAGTTTGAAGGTGGGGAAGTGTCTCTGGAAGGTGGGAAAGTTAAAGGGAAACACG
GGAAGCTGAAATTCGGTACCTTTGGTGGATTGGGGTCAAAGAGCAAAGGTCATTATGAGGTGACTGGGAGCGATG
ATGAGACAGGCAAGTTACAGGGGAGTGGGGTGTCCCTGGCCTCTAAGAAGTCCCGACTGTCTCCTCTTCTAGCA
ATGACAGTGGGAATAAGGTTGGCATCCAGCTTCCCGAGGTGGAGCTGTGAGTTTCCACAAAGAAAGAGTAGCAGG
CCTTTGTATGTGTGTACATATATATATATAACAAAACATCAGCCTTGGGTGGTGTGTCTTATATAAACTCCA
AAGGGAAACACACCGACTGCCCTCAGCAATCATGCAAAGACCTTGCTGGCCCCGGTGGCAAGCGCTGAAAAACCGA
CCGCTGTAGGCTCCTGGAATATACAGATAGGTAAAGAGTTCCAAGTTTCGTCCAGCCCATGTGCAAAGTCAACA
GTATTTGCCTTAAGATTTTCATATATATATATTTTTTGCATTGACTGCTGAGAGCTCCTGTTTACTAAGCAAGCT
TTTGTGTTTATTATCCTCATTCTTACTGAACATTGTTAGTTTTGGGGTAATGGAAACCCACTTTTTTCATTGTAAT

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FIGURE 948C

GACTTTGGGGGCTTTTGTAGTAAGGGTGGGTGGGGTGATGGGTTGCAGACGGAGGTCAGGTCTTCCTCTTTCCT
GAGACTGGATCTGTTCAAACAGCAAACGCCCACAGATGGCCCAGAGGTGGTGGTAGTCAGGGTGTGTGGGTGTTT
TTAGGGTTCTTTAGTGTTGTTTCTTTCACCCAGGGGTGGTGGTCCCAGCCAGTTTGGTGCTGACGGTGAGAGGAA
ATTAGAATCTGTTTGCAAATTGTCCAACCCACCCCCTCAACATGAGGGGCTTCCATTTTCTGTGTTTTGTAAGGG
AACTGTTTCCTTCATGCCGCCATGTTTCCTGATATTAGTTCTGATTTCTTTTAAACAAATGTTATCATGATTAAGA
AAATTTCCAGCACTTTAATGGCCAATTAAGTGAAGAAATTGATGCTGTACAAGGCAAATAAAGCTGT
TTATTAACCTCCGAAAAAAATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCA

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FIGURE 949

MPKVMPKFSMPGFKGEGPDGDVKLPKADIDVSGPKVDIEGPDVNIIEGPEGKLGPKFKMPEMNIKAPKISMPDI
DLNLKGPKVKGDVDVSLPKVEGDLKGPEVDIKGPKVDIDAPDVDVHGPDPWHLKMPKIKMPKISMPGFKGEGPDVD
VNLPKADIDVSGPKVDVECPDVNIIEGPEGKWKSPKFKMPEMHFKTPKISMPDIDLNLTGPKIKGDVDVTGPKVEG
DLKGPEVDLKGPKVDIDVDPDVNVQGPDPWHLKMPKMKMPKFSMPGFKAEGPEVDVNLPKADVDSGPKVDVEGPDV
NIEGPEGKLGPKFKMPEMNIKAPKIPMPDFDLHLKGPKVKGDVDISLPKVEGDLKGPEVDIRGPKVDIDVPDVG
VQGPDPWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADLDVSGPKVDIDVDPDVNIIEGPEGKLGPKFKMPEMNIK
APKISMPDIDLNLKGPKVKGDMVSLPKVEGDMKVPDVIDKGPKVDINAPDVDVQGPDPWHLKMPKIKMPKISMPG
FKGEGPEVDVNLPKADLDVSGPKVDVDPDVNIIEGPDALKGPKFKMPEMNIKAPKISMPDFDLHLKGPKVKGDV
DVSLPKMEGDLKGPEVDIKGPKVDINAPDVDVQGPDPWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADLDVSGP
KVDIDVDPVDIRRSRRETERSQIQDAEMSIQAPKISMPDIDLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPK
VDINTPDVDVHGPDPWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADIDVSGPKVDVDPDVNIIEGPDALKGPK
FKMPEMSIKAPKISMPDIDLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPKVDINTPDVDVHGPDPWHLKMPK
KMPKFSMPGFKGEGPDVDVSLPKADIDVSGPKVDVDPDVNIIEGPDALKGPKFKMPEINIKAPKISIPDVDLDL
KGPKVKGDFDVSPKVEGTLKGPEVDLKGPRLDIEGPDALKSGPSIKMPSLEISAPKVTAPDVDLHLKAPKIGFS
GPKLEGGEVDLKGPKVEAPSLDVHMDSPDINIEGPDVKIPKFKKPKFGFGAKSPKADIKSPSLDVTVPEALNLE
TPEISVGGKGKSKFKMPKIHMSGPKIKAKKTGIDLNVPGGEIDASLKAPDVDVNIAGPDAALKVDVKSPKTKKT
MFGKMYFPDVEFDIKSPKFKAELPSPKLEGEQAPDLELSLPAIHVEGLDIKAKAPVKMPDVIDISVPKIEGD
LKGPKVQANLGAPDINIEGLDAKVKTPSFGISAPQVSIPDVNVNLKGPKIKGDVPSVGLEGPDVDLQGPPEAKIKF
PKFSMPKIGIPGVKMEGGGAEVHAQLPSLEGDLRGPDKLEGPDVSLKGPVDLPSVNL SMPKVS GPDLDLNLKG
PSLKGDLASVPSMKVHAPGLNLSGVGGKMVGGDGVKVP GIDATTKLNVGAPDVTLRGPSLQGD LAVSGDIKCP
KVS VGAPDLSLEASEGSIKLPKMKLPQFGISTPGSDLHVNAKGPQVSGELKGP GVDVN LKGPRISAPNVDFNLEG
PKVKGSLGATGEIKGPTVGGGLPGIGVQGLEGNLQMPGIKSSGCDVNLPGVNVKLPTGQISGPEIKGGLKGSEVG
FHGAAPDISVKGPAFNMA SPESDFGINLKGPKIKGGADVSGGVSAPDISLGEGLSVKSGSGGEWKGPQVSSALNL
DTSKFAGGLHFSGPKVEGGVKGGQIGLQAPGLSVSGPQGHLES GSGKVTFPKMKIPKFTFSGRELVGREMGVDVH
FPKAEASIQAGAGDGEWEESEVKLKKSKIKMPKFNFSKPKGKGGVTGSPEASISGSKGDLKSSKASLSLEGEAE
AEASSPKGKFSLFKSKKPRHRSNSFSDEREFSGPSTPTGTLEFEGGEVSLEGGKVKGKHGKLKFGTFGGLGSKSK
GHYEVTGSDDETGKLQSGSVSLASKKSRLSSSSSNDSGNKVGIQLPEVELSVSTKKE

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FIGURE 950

GTGCGGTTGGGAACGCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCA
ATGAGCTGAAGGAGAAAGGCAACAAGGCCCTGAGCGTGGGTAACATCGATGATGCCTTACAGTGCTACTCCGAAG
CTATTAAGCTGGATCCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACC
AGAAGGCTTATGAGGATGGCTGCAAGACTGTGACCTAAAGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAG
CAGCTCTAGAGTTCTTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCAAATA
ACCCCTCAACTGAAAGAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTCATGAACCCTTTCAACA
TGCCTAATCTGTATCAGAAGTTGGAGAGTGATCCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGC
TGATAGAGCAGCTACGAAACAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCA
GCGTCTCCTTGGGGTTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTC
CCAAAAAGGAGACCAAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAAGCAGGCACTGAAAGAAAAAG
AGCTGGGGAACGATGCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGG
ACCCCACTAACATGACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGG
AGCTTTGTGAGAAGGCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTC
GAATTGGCAACTCCTACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGC
ACCGAACCCAGATGTGCTCAAGAAATGCCAGCAGGCAGAGAAAATCCTGAAGGAGCAAGAGCGGCTGGCCTACA
TAAACCCCGACCTGGCTTTGGAGGAGAAGAACAAGGCAACGAGTGTTTCAGAAAGGGGACTATCCCCAGGCCA
TGAAGCATTATACAGAAGCCATCAAAGGAACCCGAAAGATGCCAAATTATACAGCAATCGAGCTGCCTGCTACA
CCAAACTCCTGGAGTTCCAGCTGGCACTCAAGGACTGTGAGGAATGTATCCAGCTGGAGCCGACCTTCATCAAGG
GTTATACACGGAAGCCGCTGCGCTGGAAGCGATGAAGGACTACACCAAAGCCATGGATGTGTACCAGAAGGCGC
TAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGACGGCTACCAGCGCTGTATGATGGCGCAGTACAACCGGCACG
ACAGCCCCGAAGATGTGAAGCGACGAGCCATGGCCGACCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGC
GCCTTATCCTGGAACAGATGCAGAAGGACCCCAAGGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCACAGA
AGATCCAGAAGCTGATGGATGTGGGTCTGATTGCAATTGCGTGGTACTTGTTCATCCCCCTTCCCTTCGCCCT
CATGTGGAAGAGGAGCTGGGACCGCGGCGAGCAGCACGGAGCGGAAGGGAGAGCAGGGGAGAGAAGGCCTCATC
TCTCTATATTTATACATAACCCCGGGGAAGACACAGAGACTCGTACCTGCGCTGTTTGTGCCCGCTGCCTCTG
GGCCCTCCCAGCACACGCATGGTCTCTTACCGCTGCCCTCGAGTTCCATGTCTCTTTCCCTGCCCTAGTTGC
TGCTCTCGGCTGCTCTCCCATAGTTGGTTTTTTTTTATTTGGGGCAGTGGGCATGTTATGGGGAGGGGAGGGGT
TCTTCCAGCCTCAGGTCCCAGCTGTCTCACGTTGTTTATTTCTGCGTCCCCTTCTCCAATAAAACAAGCCAGTTGG
GCGTGGTTATAAC

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FIGURE 951

MEQVNELKEKGNKALSVGNIDDALQCYSEAIKLDPHNHVLYSNRSAAYAKKGDYQKAYEDGCKTVDLKPDWGKGY
SRKAAALEFLNRFEEAKRTYEEGLKHEANNPQLKEGLQNMEARLAERKFMNPFNMPNLYQKLESDPRTRTLSDP
TYRELIEQLRNKPSDLGTKLQDPRIMTTLSVLLGVDLGSMDEEEEIATPPPPPPPKKETKPEPMEDLPENKKQA
LKEKELGNDAYKKKDFDTALKHYDKAKELDPTNMTYITNQAAVYFEKGDYNKCRELCEKAIEVGRENREDYRQIA
*VARIGNSYFKEEKYKDAIHFYNKSLAEHRTPDVLKKCQQA EKILKEQERLAYINPD LALEEKNGNECFQKGD
AMKHYTEAIKRNPDAKLYSNRAACYTKLLEFQLALKDCEECIQLEPTFIKGYTRKAAALEAMKDYTKAMDV
AIDLDSSCKEAADGYQRCMMAQYNRHDSPEVDKRRAMADPEVQQIMSDPAMRLILEQMOKDPQALSEHLKNP
AQAQKIQKLM DVGLIAIR

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FIGURE 952

GCCGCTCGCTCGGCTCCGCTCCCTGGCTCGGCTCCCTGCCTCCGCGTCGCAGCCCCCGCCGTAGCCGCCTCCGAG
CCCCGCCCCACATCCTCTGAGAAGATGGCTGTGCCACCCACGTATGCCGATCTTGGAATCTGCCAGGGATGTC
TTCACCAAGGGCTATGGATTGGCTTAATAAAGCTTGATTTGAAAACAAAATCTGAGAATGGATTGGAATTTACA
AGCTCAGGCTCAGCCAACACTGAGACCACAAAGTGACGGGCAGTCTGGAACCAAGTACAGATGGACTGAGTAC
GGCCTGACGTTTACAGAGAAATGGAATACCGACAATACACTAGGCACCGAGATTACTGTGGAAGATCAGCTTGCA
CGTGGACTGAAGCTGACCTTCGATTTCATCCTTCTCACCTAACACTGGGAAAAAAAAATGCTAAAATCAAGACAGGG
TACAAGCGGGAGCACATTAACTGGGCTGCGACATGGATTTGACATTGCTGGGCCTTCCATCCGGGGTGCTCTG
GTGCTAGGTTACGAGGGCTGGCTGGCCGGCTACCAGATGAATTTTGAGACTGCAAAATCCCGAGTGACCCAGAGC
AACTTTGCAGTTGGCTACAAGACTGATGAATTCAGCTTCACACTAATGTGAATGACGGGACAGAGTTTGGCGGC
TCCATTTACCAGAAAGTGAACAAGAAGTTGGAGACCGCTGTCAATCTTGCCTGGACAGCAGGAAACAGTAACACG
CGCTTCGGAATAGCAGCCAAGTATCAGATTGACCCTGACGCCTGCTTCTCGGCTAAAGTGAACAACCTCCAGCCTG
ATAGGTTTAGGATACACTCAGACTCTAAAGCCAGGTATTAAGTACACTGTCAGCTCTTCTGGATGGCAAGAAC
GTCAATGCTGGTGGCCACAAGCTTGGTCTAGGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTTAAAT
TTTAAACTATTTTGCAGCATAGCTACCTTCAGAATTTAGTGTATCTTTTAAATGTTGTATGTCTGGGATGCAAGTA
TTGCTAAATATGTTAGCCCTCCAGGTTAAAGTTGATTCAGCTTTAAGATGTTACCCTTCCAGAGGTACAGAAGAA
ACCTATTTCCAAAAAAGGTCTTTTTCAGTGGTAGACTCGGGGAGAACTTGGTGGCCCCCTTTGAGATGCCAGGTTTC
TTTTTTATCTAGAAATGGCTGCAAGTGGAAGCGGATAATATGTAGGCACCTTTGTAAATTCATATTGAGTAAATGA
ATGAAATTGTGATTTCTGAGAATCGAACCTTGGTTCCCTAACCTAATTGATGAGAGGCTCGCTGCTTGATGGT
GTGTACAACTCACCTGAATGGGACTTTTTTAGACAGATCTTCATGACCTGTTCCCACCCAGTTCATCATCATC
TCTTTTACACCAAAGGTCTGCAGGGTGTGGTAAGTGTCTTTTGTGCCATTTTGGGGTGGAGAAGGTGGATGT
GATGAAGCCAATAATTCAGGACTTATTCCTTCTTGTGTGTGTTTTTTTTTGGCCCTTGCACCAGAGTATGAAAT
AGCTTCCAGGAGCTCCAGCTATAAGCTTGGAAGTGTCTGTGTGATTGTAATCACATGGTGACAACACTCAGAATC
TAAATTGGACTTCTGTTGTATTCTCACCCTCAATTTGTTTTTTAGCAGTTTAAATGGGTACATTTTAGAGTCTTC
CATTTTGTGGAAATTAGATCCTCCCCTTCAAATGCTGTAATTAACAACACTTAAAAAAGTTGAATAAAATATTGA
AACCTC

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FIGURE 953

MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTSENGLEFTSSGSANTETTKVTGSLETKYRWTEYGLTFTEKW
NTDNTLGTEITVEDQLARGLKLTFDSSFSPTGKKNAIKTGYKREHINLGCDMDFDIAGPSIRGALVLGYEGWL
AGYQMNFE TAKSRVTQSNFAVGKYTDEFQLHTNVNDGTEFGGSIIYQVNNKKLETAVNLAWTAGNSNTRFGIAAKY
QIDPDACFSAKVNNSSLIGLGYTQTLKPGIKLTLSALLDGKNVNAGGHKLGLGLEFQA

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FIGURE 954A

CGCGTGTCTACGCGGACGCACCGGCTAAGCTGCTTCTGCCGCCGCCGCCCGCTGGGACCTTGCGGTGAGGCTGC
GCGGGGCGGAGGCCGCCTCCGAGCGCCAGGTTTATTCACTACCATGAAGCTGCTGCTGCTGCACCCGGCCTTCC
AGAGCTGCCTCCTGCTGACCCTGCTTGGCTTATGGAGAACCACCCCTGAGGCTCAGCTTTCATCCCTGGGTGCAC
CAGCTATCAGCGCTGCCTCCTTCTGCAAGGATCTAATACATCGGTATGGCGAGGGTGACAGCCTCACTCTGCAGC
AGCTGAAGGCCCTGCTCAACCACCTGGATGTGGGAGTGGGCCGGGGTAATGTCACCCAGCAGCTGCAAGGACACA
GGAACCTCTCCACGTGCTTTAGTTCTGGAGACCTCTTCACTGCCACAAATTTAGCGAGCAGTCCGGATTGGGA
GCAGCGAGCTCCAGGAGTTCTGCCCCACCATCCTCCAGCAGCTGGATTCCCGGGCCTGCACCTCGGAGAACCAGG
AAAACGAGGAGAATGAGCAGACGGAGGGGGCGGCCAAGCGCTGTTGAAGTGTGGGGATACGGTCTCCTCTGTG
TGACCGTCATCTCCCTCTGCTCCCTCCTGGGGGCCAGCGTGGTGCCTTCATGAAGAAGACCTTTTACAAGAGGC
TGCTGCTCTACTTCATAGCTCTGGCGATTGGAACCTCTACTCCAACGCCCTCTTCCAGCTCATCCCGAGGCAT
TTGGTTTCAACCTCTGGAAGATTATTATGTCTCCAAGTCTGAGTGGTGTGTTGGGGCTTTTATCTTTCTTTT
TCACAGAGAAGATCTTGAAGATTCTTCTTAAGCAGAAAAATGAGCATCATCATGGACACAGCCATTATGCCTCTG
AGTCGCTTCCCTCCAAGAAGGACCAGGAGGAGGGGGTGATGGAGAAGCTGCAGAACGGGGACCTGGACCACATGA
TTCCTCAGCACTGCAGCAGTGAGCTGGACGGCAAGCGCCCATGGTGGACGAGAAGGTCAATGTGGGCTCGCTCT
CTGTGCAGGACCTGCAGGCTTCCCAGAGTGCTTGCTACTGGCTGAAAGGTGTCCGCTACTCTGATATCGGCACTC
TGGCCTGGATGATCACTCTGAGCGACGGCCTCCACAATTTTCATCGATGGCCTGGCCATCGGTGCTTCCTTCACTG
TGTCAGTTTTTCCAAGGCATCAGCACCTCGGTGGCCATCCTCTGTGAGGAGTTCCACATGAGCTAGGAGACTTTG
TCATCCTGCTCAACGCTGGGATGAGCATCCAACAAGCTCTCTTCTTCAACTTCCTTTCTGCCTGCTGCTGCTACC
TGGGTCTGGCCTTTGGCATCCTGGCCGGCAGCCACTTCTCTGCCAACTGGATTTTTGCGCTAGCTGGAGGAATGT
TCTTGTATATTTCTCTGGCTGATATGTTCCCTGAGATGAATGAGGTCTGTCAAGAGGATGAAAGGAAGGGCAGCA
TCTTGATTCCATTTATCATCCAGAACCTGGGCCTCCTGACTGGATTACCATCATGGTGGTCCCTACCATGTATT
CAGGACAGATCCAGATTGGGTAGGGCTCTGCCAAGAGCCTGTGGGACTGGAAAGTCGGGCCCCTGGGCTGCCCGATC
GCCAGCCCCGAGGACTTACCATCCACAATGCACCACGGAAGAGGCCGTTCTATGAAAACTGACACAGACTGTATT
CCTGCATTCAAATGTCAGCCGTTTGTAAAATGCTGTATCCTAGGAATAAGCTGCCCTGGTAACCAGTCTCTAGCT
AGTGCCCTTGCCCTCTCCTCACCTCCTTTTTCTCTCAGTGACTCTGGAACCTGAATGCAGCTTACAAGACAAGCC
TGACTTTTTTCTCTGATTACCTTGGCCTCCTCTTGGAAACAGTGCTGAAAGGTTTTGAATCCTTTACCCAACAAT
GCAAAAATAGAGCCAATGGTTATAACTTGGCTAGAAATATCAAGAGTTGAATCCATAGTGTGGGGCCCATGACTC
TAGCTGGGCACCTTGGACCTCCAGCTGGCCAATAGAAGAGACAGGAGACAGGAAGCCTTCCCATTTTTTCAAAGT
CTGTTTAATTGCCTATTACTTCTCTCAAAGAGAACCTGAAGTCAGAACACATGAGCAGGGTGAGAGGTGAGGCAA
GGTTCATCCTGAATGGGAGAGGAAGTCGAACCACTGCTGTGTGCTTGTGTCAGGATGCTCACTTGTTCCTACTGAG
ATGCTGGATATTGATTTTGTAAACAGCACCTGGTGTTCACGGCTGTCCGAGTGAGCTAACGTGGCGGTGTGGCTG
CCTGGACCTCCTCTTTCAGGTTAACGCTGACAGAATGGAGGCTCAGGCTGTCTGCAAGAAAACAGTTGGTTTTGGC
TGTGATTTTGACCTCCTCTTCCCCACTGCCATCTTCTAAGAGACTTTGTAGCTGCCTCCTAGAAGCACATTCTGA
GCACATTTGAGACCTCTGTGTTAGAGGGGAGACTGCACAACTATCCTCCCCAGGTTGAGACGTCTGCAGAGTG
GCAAGCTGACTTGTAGAAATGGGGTGCCATTTATGCTCTACTTAGACAAGGGTAATCAGAAATGGAATCAGTGCA
GGCAAAATTTAGGATTTGCCGCTTCCATAAATCAAAGCATGACTAATAGGGGGTCTCTGAAATGTAAGGGCACAA
ACTTCACTTAGGGCATCGCAGATGTTTGCAGAAATGGTTGGCCTAATGATTATGCTACAGATGGGTTTTAAATGAC
CCGTCTAGGTTACTGCTTCCTTGCAAAAAAGTCGAATCCTGCATTGAATTGAATATGAATTTCTCTAACTCTCT
CCAGAAAATGGATGGAGATAACTTGTCTTTAAACTGTAGGCCAGCCTTAGCCACTGTGGAGCCCTTGCCCTCCGA
GCTCTGGCTTCAAGGGGAGCTCTTCTCCAGGTTCACTAGGTGAATTGATTTATTATTATCATATTGATAATGTGA
GATTTCTTTAGCCACTTTGGGGAGCCTGTCTCTCCAGAAGCCTTTCTTAGTGGTGGCCACAGTTGGAGCCCAGGGG
CCATGTTTGCAACTGATTCATGTGCATGGCTGACAGGAGTACTGGTTCCTACCAATGCCTGAGCTTTTCTCTT
ACATAGAAAACTGTCCACTCTCAGTAATCACAAGCAGCATCCGTTTTGTTTTCTCTTCTTGGGAGACATCTGTC
AAACCAGGAATATTCTTGAAAAAGACGTGAGCAGGAAAACTGCTGGTGATACTTTTTTTAAGTTTTGTTTTAT
CTTGCCCTGTTGGCTTCAATACATTTGAGAATACGCTGAAGAGGGAAAATTTCACTGATGGAGATTCTAGATTAA
TATCAGGACTGATTTCTGGTGGGATTATGGTCCAGTTTTTACCAAAGAACCAATTCCTTGAATGTTGGAATCTAA
CTTTTTATATTGTCATTATTATTGTTGTTTTTAAACGGTCTTTTGTCTTTTCTGTTTTATTTTTCTCAAGCTGCT
TTCAGGAGCTAGCAGAAAAAATACTCAAAGTTGAAGACTCTGGAAGATTTTGTCTTAACTAACTCGCATTGATGT

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FIGURE 954B

ATTAAATTTATAATTTTAGCATTCCCAATAGATCCTATCATTCCTTAAACATAATACCCTTTGTCTTGGAGTAGA
ATACTAAGTTAGAGTTAGTGGATTTCTAGTTTAGGAGAGGAGCTCAAAACTATAATCTTTAACAAATTGAAAAAT
GAAATAGGGTGTTTTCCCTTTTTGTGCACACCTATATTACCTTAAGAAATTTCCCTCCATAGACAGCTGCCTCAA
AGGGAAATCCTCTTTAAACCGTAGTTGGCGCAGAGGTCAGTCCTAGTCGGAGCTTAGGAGGGGCGGAGACGCTCA
CATCGTCTGACTTGAGTCGCCACTGATTGTGGCAACAGCTTTGCCTCATGAGTCAAAAATTGGCAATTTCTTTTG
ATTTTTAGTTGTTGAATTTGCTGTTTCAAGCATTGTACATATTAGAAGTCTAAGGAGTAGCAAGTCAGTGGGAG
GACTTTTTTACCCCTGGCATTAGCAGCTTCGACCTCATTTTCCAGATGCACCAGCTCCTATTAATAAGTTAGCAA
GGAAAGTGTATGTCACGTGCAGGAACAGTGAGGCAGGGACAGGGGTTCTGCTCCTTCTCACTTCACCACCGGCAC
ACAGCTTGCCCTGTCTTTGCCCCCAAAGGTATTTGTGTCTAGTGTCAAATTGGAGCTATTCTTCACTGGTCCT
TAACCTTGGGTTTTAAAAGAAGGCTTCTCTGTTTGGGTAGCGTAAGAGCTGAGTATAGTAAGTCCTCTTCCAAA
GAGATGGCAATATGCTGGGCATCTACTTTAAACAAAGTTGTCTGATTTTGAAGAGAGGTTAGGATTTTATTG
TTCTTATTTCCCTTTACAGTTCTGCAGTTCCATCACAGTATTTTTTTAAATAACTCAGGTGTATGAGCAGAAATT
AGAAAAGAAAATTAACCTATGTGGACTGTAAATGTTTTATTTGTAAGATTCTATAAATAAGCTATATTCTGT

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FIGURE 955

RVYADAPAKLLLPPPAWDLAVRLRGAEAAASERQVYSVTMKLLLLHPAFQSCLLLTLLGLWRITPEAHASSLGAP
AISAASFLQDLIHRYGEGDSLTLQQLKALLNHLVDGVGRGNVTQHVQGHRNLSTCFSSGDLFTAHNFSQSRIGS
SELQEFCTILQQLDSRACTSENQENEENEQTEEGRPSAVEVWGYGLLCVTVISLCSLLGASVVPFMKKTFYKRL
LLYFIALAIGTLYSNALFQLIPEAFGFNPLEDYVSKSAVVFGGFYLFFFTEKILKILLKQKNEHHHGHSHYASE
SLPSKKDQEEGVMEKLQNGDLDMIPQHCSSELDGKAPMVDEKVIVGSLSVQDLQASQSACYWLKGVRYSDIGTL
AWMITLSDGLHNFIDGLAIGASFTVSVFQGISTSVAILCEEFPHELGDVILLNAGMSIQQALFFNFLSACCCYL
GLAFGILAGSHFSANWIFALAGGMFLYISLADMFPENNEVCQEDERKGSILIPFI IQNLGLLTGFTIMVLTMYSG
QIQIG

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FIGURE 956A

GCTAAGAGGAGTCCCTGTGTGGGCAGCTGGAGCCTTCAGATTCTCTTCAGGGGAAGAGTCCACATCCCACCTCAT
CATGTCCCGAAGAAGCCAGCGCCTCACGCGCTACTCCAGGGTGACGATGACGGCAGCAGCAGCAGCGGAGGGAG
CTCGGTGGCTGGGAGTCAGAGCACCCCTGTTTAAAGACAGTCTCTCAGGACCTTGAAGAGGAAATCCAGCAACAT
GAAGCGCCTGTCCCCAGCGCCACAGCTGGGCCCCGTCCTCTGATGCACACACCTCTACTACAGTGAGTCGCTGGT
TTCAGAGTCTTGTTCCCAACCCAGGAGCTCCCTGGAGGAAGTGCATGGTGACGCCAACTGGGGTGAGGACCTGCG
TCGGAGGAGGAGAGGCACGGGTGGCTCAGAGAGCAGCAGGGCCAGCGGGCTTGTGGGGCGCAAGGCCACCGA
ACTTCTCTGGGCTCTTCTCTGGGCTACTCTCTGAGGACGACTACGTGGGCTACTCGGATGTGGACCAGCAGAG
TCCAGCTCGCGCTCCGAAGCGCCGCTCTACGGGCGGGCTCCTTACTCTGGATGGTGGCCACTTCGCCAGGCCG
TCTTCAGACTTCTCTACTGGTGGGCTGGCACCACCTGGTACCGCTGACCACAGCTGCCCTCCCTCCTTGACGT
CGTTTTAACCAGGCGCTTCTCGTCCCTGAAGACGTTCTCTGGTTCTGCTGCCGCTGCTCTTGCTGACGTG
TACGATATGGTGCTTGGTATTTCTACCCCTATGGGCTGCAGACATTCCACCCTGCTTTGGTTTCTGGTGGGC
TGAAGGACAGCAGGAGGCCGGATGAGGGCTGGGAAGCCAGAGACTCATCGCCACATTTCCAGGCTGAGCAGCG
TCTATGTCCCGGTACACTCTCTGGAGCGCGCTCTGGAAGCTCTTGCTGCTGAATTTTCTCCAAGTGGCAGAA
GAGGCCATGCGGCTGGAACGTCTGGAGCTGCGGCAAGGGGCTCCTGGCCAGGGAGGTGGTGGTGGCCTGAGCCA
CGAGGACACCCTGGCGCTGCTGGAGGGGCTAGTGAGCCGCGCTGAAGCTGCCCTGAAGGAGGATTTCCGCAGGGA
AACTGCTGCTCGCATCCAGGAAGAACTGTCTGCCCTGAGAGCAGAGCATCAGCAAGACTCAGAAGACCTCTTCAA
GAAGATCGTCCGGGCTCCAGGAGTCCGAGGCTCGCATCCAGCAGCTGAAGTCAGAGTGGCAAAGCATGACCCA
GGAGTCTTCCAGGAGAGCTCTGTGAAGGAGCTGAGGCGGCTGGAGGACCAGCTGGCCGGCTGCAGCAGGAGCT
GGCGGCTCTGGCACTGAAGCAGAGCTCGGTGGCGGAAGAAAGTGGGCTGCTGCCCCAGCAGATCCAGGCCGTGCG
GGACGAGCTGGAATCTCAGTTCCCGGCTGGATCAGTCAGTTCTTGCCGAGGTGGAGGGGGCCGCTGGGGCT
CCTTCAGAGAGAGGAGATGCAAGCTCAGCTGCGAGAGCTGGAGAGCAAGATCCTCACCCATGTGGCAGAGATGCA
GGGCAAGTCCGCCAGGGAAGCCGCGGCTCCCTGAGCCTGACGCTGCAGAAAGAAGGTGTGATTGGAGTGACAGA
GGAGCAGGTGCACCACATCGTGAAGCAGGCCCTGCAGCGCTACAGTGAGGACCGCATCGGGCTGGCAGACTACGC
CCTGGAGTCAGGAGGGGCCAGCGTCATCAGCACCCGATGTTCTGAGACCTACGAGACCAAGACGGCCCTCCTCAG
CCTCTTCGGCATCCCCCTGTGGTACCACTCCAGTCACCCCGAGTCATCTCCAGCCAGATGTGCACCCAGGCAA
CTGCTGGGCTTCCAGGGGGCCACAGGGCTTCGCCGTGGTCCGCTCTCTGCCCCATCCGCCCCACAGCCGTAC
CTTAGAGCATGTGCCAAGGCCTTGTACCCAAACAGCACTATCTCCAGTGCCCCCAAGGACTTCGCCATCTTTGG
GTTTGACGAAGACCTGCAGCAGGAGGGGACACTCCTTGGCAAGTTCACTTACGATCAGGACGGCGAGCCTATTCA
GACGTTTTCACTTTAGGCCCCCTACGATGGCCACGTACCAGGTGGTGGAGCTGCGGATCCTGACTAACTGGGGCCA
CCCCGAGTACACCTGCATCTACCGCTTCAGAGTGATGGGGAGCCCGCCCACTAGCCCTGCTTACTGGTGCCCTGC
TGCCAGCCATCTGGGAGTGGGTGAACAGCACCCCGCCGCTTCCCCCACACGCTTGCTCGGCGCTCTGACTTCTAG
GAGCACAAGAGAGGAGCCTGTGGCCCCATGCAGATGAAAAGGACGGGCAGGGTCTCCTGAGCAGCAGGTGGCTCG
AGGCGGTTAGCAGGCTCCAGCAGCTCCCTTCTTCTTCCCTCTGTGCCCGTGGCGTCTGCTTCCCATCCTGGGAG
TGTGTATATATGTAGCATATCATGGGGGACTGGGAAGTTGGGAGAGGTAGGACCTGACTGGTCTTGGCTGGGGTC
AGGGGCTGGTGCTGGGAGCTGATGAAGCAGGTGCCAGGGCTGTGGGAGGGGCAAGCTACGGCCTGGGCTAGGTG
AGCTGCCTCTGCCCCTGGGCAAGGAAGCGAGGCCCTCTGGGAGGAGGTGCTTAGCTCCAGAGCAGGATGGGACT
TCCCCAGGCAGGAAGCACTTGATGGAGAGCTGCCAGCTCTCCTACAAGGTTAGTGCCCTCCACCTAGGGAAGCC
TGAACCACAGGGTCCCTGAGGGCCTTCGACAAAAGTGTGTATTTGTCCCGGGGAGGGTAGCAGTGGGCCATGGGG
CTTCTTGTGCCCTAAAGGGGACTGGCTGCTGTGATCTTCTAAGGGGGCCAGGGCCAACCTGTAGGCTTCCCCCTC
TGCTGGGGACGGTAGTTGCTTTTCTCTCTCTCTGATGCTAGGTTGGGGCCACCCTGCTCCCTGTTCTCTGCTAGGG
CCTGCCAGTGCCCCCTGAGCTTGCTTTCCACATTCTCCAGGGTATGGAGACCTAGACCTGTCTTTGGGGCCATTA
GCATCTGGGGTTATAGCAAGAAGAGTGGGGAGCATGGAACCTCTGGGCTCTTGTGGGGACGTTTCAAGGTATCGGG
GTGCGAGGTCTGTCTGCACCGGCCCCCACATCTAACCAGGCCCTGATGTAGGGGTCTGTCGCTCAGGCTGCCCCC
TTGGGCTCTTGCACTCTTGTTCAGGTAGTCGCCCTTCTGGTTTGTCTCTGTGGGGCAGTTGGTGGGGGCTGGG
GGAAGAGGCTGGCAGAAGTTACCCTGGATAGGGAAGGGGGAGGAGGGGACTTTTAGAGCCAGCAGGCCCCACTGT
ATTATGTATATATTTTTCAAGGTCTGTTTTTCTAACTGAAAAGCTAAGGGCTTGATTCCTAGCCCCGTTCTGTGG
GGCACTGGGTGATACTCAGTTTCTTGTTCCTGGCGTGGAGAGGGGCTGGGGCACTGGTTCCGGCTGTGTCTGG
TGGTCCGGCTGCAGGGAAGGGGCAAGAAGCGGGCAGGCCCTTCACTGCAGCACTGAGCCTCAAATCCGCTCTGGA

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FIGURE 956B

GCATGAGGCTGGATGCAGTGGTGGTGAGGCCGCCCGCTCCATCCGAGGCAGCCAGGCTTTGTTTTGCGCTCTC
CTGTCACAAATGCTGCACTATTGGTTCTTAAGTTTTTATCTCCAGATCCTAATTTATGCCTATGCAAAAAATAA
ATGACGCCCAAGAGCTG

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FIGURE 957A

GTAAGATTTTTAAACCAAGGAATGACTGGGCTATCTATAAACCCAGATGCACTAAGTGGGGAGAAAAGCTCGGAG
CTGCAGCATATCAGCTTTGTCAACCTGCCAACAGCAGAGCGTACCATGCTGCAAGGAGTAATAAACCAAGGAATTA
GAAAACTCGCTGCTGGAGAACAGTCAAATTAACACCTTTTTGAAAGGATGAGCATGTATATATTGCAGTTCTAT
TAAATGTAGCTTCTTAGTGAGGTTGGCATTATGTTAAGGCTGGTATGGAAGAGAACTGATGAAGCAGGAGTGGTC
TGGTGACATTTTTCTGACTTGATTGGCTGGGGCGTGTGATGTAATAGGTTTCAGTGACGCCCTTATAGGTTTTA
AAATGAATTCCAAGACACCATTACAAAGAAAGCCGGACTCTTTTCTTATAACTGAGCTCAGCCAAGGAACTCTT
GCACAAATGTACAATACTGTTTGAATATGGAAGACCTGGATTTAGAATATGCCAAGACAGATATAAATTGTGGC
ACAGACTTGATGTTTTATATAGAAATGGACCCACCAGCACTGCCTCCTAAACCACCAAAACCTACTACTGTAGCC
AACAACGGTATGAATAACAATATATCCTTACAAGATGCTGAATGGTACTGGGGAGATATCTCGAGGGAAGAAGTG
AATGAAAACTTCGAGATACAGCAGACGGGACCTTTTTGGTACGAGATGCGTCTACTAAAATGCATGGTGATTAT
ACTCTTACACTAAGGAAAGGGGAAATAACAAATTAATCAAAATATTTTCATCGAGATGGGAAATATGGCTTCTCT
GACCCATTAACTTCAGTTCTGTGGTTGAATTAATAAACCACTACCGGAATGAATCTCTAGCTCAGTATAATCCC
AAATTGGATGTGAAATTACTTTATCCAGTATCCAAATACCAACAGGATCAAGTTGTCAAAGAAGATAATATTGAA
GCTGTAGGGAAAAAATTACATGAATATAACACTCAGTTTCAAGAAAAAGTCGAGAATATGATAGATTATATGAA
GAATATACCCGCACATCCCAGGAAATCCAAATGAAAAGGACAGCTATTGAAGCATTTAATGAAACCATAAAAAATA
TTTGAAGAACAGTGCCAGACCCAAGAGCGGTACAGCAAAGAATACATAGAAAAGTTTAAACGTGAAGGCAATGAG
AAAGAAATACAAAGGATTATGCATAATTATGATAAGTTGAAGTCTCGAATCAGTGAAATTATTGACAGTAGAAGA
AGATTGGAAGAAGACTTGAAGAAGCAGGCAGCTGAGTATCGAGAAATTGACAAACGTATGAACAGCATTAAACCA
GACCTTATCCAGCTGAGAAAGACGAGAGACCAATACTTGATGTGGTTGACTCAAAAAGGTGTTCCGGCAAAAGAAG
TTGAACGAGTGGTTGGGCAATGAAAACACTGAAGACCAATATTCAGTGGTGAAGATGATGAAGATTGCCCCAT
CATGATGAGAAGACATGGAATGTTGGAAGCAGCAACCGAAACAAAGCTGAAAACCTGTTGCGAGGGAAGCGGAGAT
GGCACTTTTCTTGTCGGGAGAGCAGTAAACAGGGCTGCTATGCCCTGCTCTGTAGTGGTGGACGGCGAAGTAAAG
CATTGTGTCATAAAACAAAACAGCAACTGGCTATGGCTTTGCCGAGCCCTATAACTTGTACAGCTCTCTGAAAGAA
CTGGTGCTACATTACCAACACACCTCCCTTGTGCAGCACACGACTCCCTCAATGTCACACTAGCCTACCCAGTA
TATGCACAGCAGAGGCGATGAAGCGCTTACTCTTTGATCCTTCTCCTGAAGTTCAGCCACCCTGAGGCCTCTGGA
AAGCAAAGGGCTCCTCTCCAGTCTGATCTGTGAATTGAGCTGCAGAAACGAAGCCATCTTTCTTTGGATGGGACT
AGAGCTTTCTTTCACAAAAAAGAAAGTAGGGGAAGACATGCAGCCTAAGGCTGTATGATGACCACACGTTCTTAAG
CTGGAGTGCTTATCCCTTCTTTTTCTTTTTCTTTGGTTAATTTAAAGCCACAACCACATACAACACAAAGAG
AAAAAGAAATGCAAAATCTCTGCGTGCAGGGACAAAGAGGCCTTTAACCATGGTGCTTGTTAATGCTTTCTGAA
GCTTTACCAGCTGAAAGTTGGGACTCTGGAGAGCGGAGGAGAGAGAGGCAGAGAAGAACCTGGCCTGAGAAGGTTT
GGTCCAGCCTGGTTTAGCCTGGATGTTGCTGTGCACGGTGGACCCAGACACATCGCACTGTGGATTATTTCAATTT
TGTAACAAATGAACGATATGTAGCAGAAAGGCACGTCCACTCACAAGGGACGCTTTGGGAGAATGTCAGTTCATG
TATGTTTCAAGAAATCTGTATAGAAAGTGCCAGAAAGTGTTTAACTTGTCAAAAAACAAAAACCCAGCAACA
GAAAAATGGAGTTTGAAAACAGGACTTAAATGACATTCACTATATAAAATATGTACATAATATTGGATGACTA
ACTATCAAATAGATGGATTGTATCAATACCAATAGCTTCTGTTTTGTTTTGCTGAAGGCTAAATTCACAGCGC
TATGCAATTCTTAATTTTCATTAAGTTGTTATTTTCAGTTTTAAATGTACCTTCAGAATAAGCTTCCCCACCCAG
TTTTTGTTGCTTGAAAATATTGTTGTCCCGGATTTTTGTTAATATTCATTTTTGTTATCCTTTTTTAAAGTAAA
TGTACAGGATGCCAGTAAAAAATAAATGGCTTCAGAAATTAACACTATGAAATATTTTACAGTTTTTCTTGTA
CAGAGTACTTGGCTGTTAGCCCAAGGTTAAAAAGTTTATAACAGATTTTTTTGGACTGTTTTGTTGGGCAGTGC
CTGATAAGCTTCAAAGCTGCTTTATTCAATAAAAAAAGAAATGAAAAAGATATATGAATATGACAAAGTATTGC
TGAGTCCAACAATGTTGTTTTAAGACTCTTAAATACGGTACCTGGCAATGTTTATTTTATAAAGAATTGTGAAC
TTCTTGAATCTAGGGAGGGGGAATGTAGTGAAGGGATGTATCAAGTGGGGTGGTGGGAGGGGAGGCAAGGTTAT
ATGCACTTTCTCATGATTTACAGAGAAGTGAATAACTGCAAAGTGAAGTTGCTTCTTCTACTTCAGTCTTCTCTC
ACTTTGATTGCTAGTTGTTATCAATTAATGACAATTACAAACCTACTGTATCTCTAATACAGTGTGACTGGTCA
GGTATTTTCAGTTCTTAGGAAGGAAGTGCCAAGTTTGTTTTGGGTTCCCTGGAACAGCGCTCACCTTTGTTTAGAA
CACTGGTTTTAAAGGGATAATCATCTCTGTACATTAGACTATCCATCATGACCAGCAAATACTCATTTTAGGAAA
AAAAAAGCATGATCTGAAAAATACTTTTGGTGGTATGTTGGTTACCCCTCTAGCTTTCCATTTGGTTTTAGAACA
TAAAGCAAATAGACACAGTCATACTGTCACTGCTCTGGACTGTGTGGAGCTCGCTAAAGTCATGGTCATTGCAGG

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FIGURE 957B

AATCCAAGTGGCAGTCCTTCTCATTCAATCATTGTATGTGCTTCACTACGGGGGGGAGAAGGAAACGTTA
GCATCATGTTTCCCATTAGGGCAGGAGTGAGAGGTCTCTCTTCTGATTTAGATATGCAAAAGCTGGTATGTTT
AGTAGGAAGTGTACATGTGTTGGGAGGCATAAAGACTAATTAGCAACCATAATATGGTCACTACCCTAATAGACT
AAATGAAATCTTGCAATTTCAAATTACTCTTTCTCCATATTAGATTTACCCACAGCTATATTTCTGTTTAAAGTAC
TAGGGTGAGGGTTTTCTGTTACTTTGTTTTTAAATGTTGTTCCTTTTGAAAGAATCAGTCTTGCAAGCTGAGTGAA
AAATCTGTGGAATGTATTATTTGTCCTCTTTACATGAACTACTCATACTTAAGCAAAAGTCACTCTTATAGCAA
GACTGTTAGCCCTCAAACCTGACTCTACTGATCTGACCATTTCCCTCTCATCGCCAGACAAGTACGATTTCCCT
GGTTTTAGTCTGCGTCTCTGCTTTAAAGTTATTGTGATATCCTTCTAGATCATAACAAAGTCTAACAGTTAATTA
GTTAACAGTTTTTAACTAGGTTTGTGGGTATTTTTTGGTAGCACATGTATGCTATTACATACAAATTTTTATT
TCTAAAATATAAGATCTGAGATTGAATATTTTCATTAAGCTACAGTTTGTGAATCTTTGTGCTTCAACATTC
TTTGCAAGATGATACGGTATTTAGGCATTTGCCTTATTTTTGCATCTCACAAACATAAGTGCAATAGATCTTTTC
ATTGAACAGCAAAGTAGGATTCATCATTCCATATGACTTGAGTTACACCAGACCTGTTCTGCCCAATGCCTTTTT
GATTACAGTGTAGCTTGCCACCGCATTTGTGCTTTTAGATACTTTGCTAGCCGGCCACTTTGGATTTTCATCAGA
CAGTCCTAACAATATTGTCTGAACGGCTGAATATGAATAGATACAGCAGAGGCACTCCTGATATATGATTTTTAT
CCATGCGTCAGTTTTTCCCACCCAGTGTAGCATCCTAAAGATAAAGCCAGAAGCTAAGCTGCAGTGAGGCTGTGA
TTGGGCGTAGAAGTGGGAGCATTGGGACCTCACATTACACACACGAGAGATCATAACCATGTGAAAAGGCAAAAA
GCATGTGTTTGCAACATCTGATAACTTCATGGCCTTTGATAAATGTATATATGTATATGTGCATGGACTGTGTTT
CCAGTACACCTTTAGCCAAAACAGATCCACAGTAGTTGTTGAGTTCAAGTACATAAAGTACATAACAAGCGAAC
GTCTAGTACAATTCCTTACTTATGTGTATGGGATTTTTCCCTTTGAGGTTGCTTTGTTTTGTCTTACAAAGGTGAA
AATTGTTTGTAAGTGAAGTGAGAAGTTCATATTTCTTTGGCTTTTTTGTGTTTTTAAAAGTTACTCCTTTTAGGG
AGCTGGTCTGATGACTTGCTTAGCTTGGAATCCTTGTTTTAGTGTGTCGAGTCAAAATGTGTTTATGTGAGCT
GTCATGTGGGGAACCAATTGCTTTGTCTATATAGCTGGTTATGAAGTAGTAACATGTTTGGGAAGTCCTACTGAT
GTTCTTTTGGGAAGAAAAATCTGCTGGTTTTAACTGCTGCTTTTGTCTATGTATGGTATCCAAGTTAGTTGAAA
TGCAGACACTGAGATCTGTTTGTAGTTTAGGGTCATTTTTAGAAAGGGGCAGTTTAAAGCACAAATGTCTCACATGG
GACAAAGTTCCAAATGCCAAATCTTATTTTTTAAAAGCTAGTTCTATAAAATACTGGTATTATGGGTGGGGGA
GGAAATAGAATTGAGTCAATTGGAAAGACTATCCAACCTAACATGAAACTTGTACCATGAGATAGCATTAGCTG
CCCAGGATGCTGCTATATATATATATATGTATT

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FIGURE 958

MYNTVWNMEDLDLEYAKTDINCGTDLMFYIEMDPPALPPKPPKPTTVANNGMNNNISLQDAEWYWGDISREEVNE
KLRDTADGTFLVRDASTKMHGDYTLTLRKGGNNKLIKIFHRDGKYGFSDPLTFSSVVELINHYRNESLAQYNPKL
DVKLLYPVSKYQQDQVVKEDNIEAVGKKLHEYNTQFQEKSRDYRLYEEYTRTSQEIQMKRTAIEAFNETIKIFE
EQCQTQERYSKEYIEKFKREGNEKEIQRIMHNYDKLSRISEIIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDL
IQLRKTRDQYLMWLTQKGVQRKKLNEWLGNENTEDQYSLVEDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGT
FLVRESSKQGCYACSVVVDGEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDSLNVTLAYPVYA
QQR

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FIGURE 959

GACCGAAGCAAGAGCTGGTTCAGGTGGCAGCCACAGCAGCCTCAGGGACCTCAGCAACTATGGCCTCCTGCCAG
ACTCTGATAATAGCTGGGTGCTTGCTGGCTCCGAGAGCCTGCCAGTGAGACACTGGGCCCGGCATCCAGGATGG
ACCCAGAATCTGAGAGAGCCCTGCAGGCCCTCACAGCCCCTCCAAGACAGATGGGAAAGAATTAGCTGGGACCA
TGGATGGAGAAGGGACGCTCTTCCAGACTGAAAGCCCTCAGTCTGGCAGCATTCTAACAGAGGAGACTGAGGTCA
AGGGCACCCCTGGAAGGTGATGTTTGTGGTGTGGAGCCTCCTGGCCAGGAGACACAGTAGTCCAGGGAGACCTGC
AGGAGACCACCGTGGTGACAGGCCTGGGACCAGACACACAGGACCTGGAAGGCCAGAGCCCTCCACAGAGCCTGC
CTTCAACCCCCAAAGCAGCTTGGATCAGGGAGGAGGGCCGCTGCTCCAGCAGTGACGATGACACCGACGTGGACA
TGGAGGGTCTGCGGAGACGGCGGGGGCCGGGAGGCCGCCCCACCTCAGCCCATGGTGCCCTGGCTGTGGAGAACC
AGGCTGGGGGTGAGGGTGCAGGCGGGGAGCTGGGCATCTCCCTCAACATGTGCCTCCTTGGGGCCCTGGTTCTGC
TTGGCTGGGGTCTCTCTCTCTCAGGTGGCCTCTCAGAGTCTGAGACTGGGCCATGGAGGAAGTGGAGCGGC
AGGTCTCCAGACCCCGAGGTGCTGGAAGCTGTGGGGGACAGGCAGGATGGGCTAAGGGAACAGCTGCAGGCC
CAGTGCCCTCTGACAGTGTCCCAGCCTGCAAAACATGGGTCTTCTGCTGGACAAGCTGGCCAAGGAGAACCAGG
ACATCCGGCTGCTGCAGGCCAGCTGCAGGCCCAAAAGGAAGAGCTTCAGAGCCTGATGCACCAGCCCCAAAGGGC
TAGAGGAGGAGAATGCCAGCTCCGGGGGGCTCTGCAGCAGGGCGAAGCCTTCAGCGGGCTCTGGAGTCAGAGC
TGCAGCAGCTGCGGGCCCGCTCCAGGGGCTGGAGGCCGACTGTGTCCGGGGCCAGATGGGGTGTGCCTCAGTG
GGGGTAGAGGCCACAGGGTGACAAGGCCATCAGGGAGCAAGGCCCCAGGGAGCAGGAGCCAGAATCAGCTTCC
TGAAGCAGAAGGAACAGCTGGAGGCTGAGGCACAGGCATTAAGGCAAGAGTTAGAGAGGCAGCGACGGCTGCTGG
GGTCTGTACAGCAGGATCTGGAGAGGAGCTTGACAGGATGCCAGCCGCGGGGACCCAGCTCATGCTGGCTTGGCTG
AGCTGGGGCCACAGATTGGCCCAGAACTGCAGGGCCTGGAGAACTGGGGCCAGGACCCTGGGGTCTCTGCCAATG
CCTCAAAGGCCTGGCACCAGAAGTCCCCTTCCAGAATCTAGGGAGTGGAGTGGAAAGGAAAAGTGGTGGGATG
GGCAGAGAGACCGGAAGGCTGAGCACTGGAAACATAAGAAGGAAGAATCTGGCCGGGAAAGGAAGAAGAACTGGG
GAGGTGAGGAGACAGGGAGCCAGCAGGAAGGTGGAAGGAGGGCAGGCCAAGGGTGGAGGAGTGGGGGAGCAAGA
AGGAGGGCAAGCGACAGGGCCCGAAGGAACCCCCAAGGAAAAGTGGTAGCTTCCACTCCTCTGGAGAAAAGCAGA
AGCAACCTCGGTGGAGGGAAGGGACTAAGGACAGCCATGACCCCTGCCATCCTGGGCAGAGCTGTTGAGGCCCA
AGTACCGGGCACCCAGGGCTGCTCAGGTGTGGACGAGTGTGCCCGGCAGGAGGGCCTGACTTTCTTTGGCACAG
AGCTAGCCCCAGTGCGGCAACAGGAGCTGGCCTCTCTGCTAAGAACATACTTGGCACGGCTGCCCTGGGCTGGGC
AGCTGACCAAGGAGCTACCCCTCTCACCTGCTTTCTTTGGTGAGGATGGCATCTTCCGTATGACCGCCTCCGT
TCCGGGATTTTGTGGATGCCCTGGAGGACAGCTTGGAGGAGGTGGCTGTGCAACAGACAGGTGATGATGATGAAG
TAGATGACTTTTGGAGACTTCATCTTCAGCCACTTCTTTGGAGACAAAGCACTGAAGAAGAGGTGAGGGAAGAAGG
ACAAGCACTCACAGAGCCCCAAGAGCTGCGGGGGCCAGGGAGGGGCACAGCCATAGCCACCACCACCACCGGG
GCTGACACCCCTGCCCCACAGGGAATGGCCTTGGCCTGGCCAGCCCAAGATCCCAGCGTTATCTAACTCCTGGAG
GGTGGACTCTGTCTGGCTTGTGTTTGGTGTCTCAGATATCTTTCACACAGTAGAGCAAAATCACCAGCCCTGCAC
TGATGTCACTTTATGTAGAAAAAGCCTTAGCTGGACCTGCGTTGCCGTCTATGCAAAATGCATGCAAACTCCA
GGCCCTGGGATGTGGGCTTGTGTTTGTCACTGTGAAGGGGGAGATGGGAGAGGAGCCTGTTTTGGGGTGGGGTC
TGGGGAAGGCAATCTGATTCTGAAGCTAAAGAGCTTTCATCCTCTTGAGTGTATGTCCCCATAGTGGGCCCTTG
ACCCACATGCTGACCGGTGCCTTGGGATTTGACTAGAGTTGCTGGCTCGAGGCCAGCAGGAGACTTACCCTGG
GGTTTTGTTAGGTTTGGAAAGCAGCTGTCCCTAGGGGGTGAAGTCCCCCCCCCTTTTTTTTTTACCCCTGCTTCTC
CCACGGCTTCACCTCCCTATGTGAAGTGTAGACTCAGATCCCAATAAAGTGTGTTGCAGCTATGATGCTAGGTG
GTTTCTAAGCACAGGGGACACCCACACCCCTGCCTGAATGGATGGGTCCATCCCAGGCACTGGTACTTGCCCC
CTTGTTCTGTATCCCCCTTGGCCTTGCCTTGCCTTCCAACAAACCCTAGGCCCTTGAGAAGCTGATACTTCTC
CTTTTGCTCACAGCTGCCTTGGCCCCACCCCTGGGAGATGTAGCAAATTGAGTGTGGGTTTTGGAGTCTGAGCCT
CAGGCTCAAATCCAGGCCAAGTGATCTTGGGCAAGTTAATCTCTGGGAACCTTGGGTTTCTTATCCTCAAAAAAG
GCGATGGAAGGGCTGGGGAAGTGATTAAATAAAAGCAACGCAAGAAAAA

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FIGURE 960

MASCPDSDNSWVLAGESESLPVETLGPASRMDPESERALQAPHSPSKTDGKELAGTMDGEGTLFQTESPQSGSILT
EETEVKGTLEGDVCGVEPPGPGDTVQGDLOETTIVTGLGPDQTQDLEGQSPQSLPSTPKAAWIREEGRCSSDD
DIDVDMEGLRRRRRGREAGPPQPMVPLAVENQAGGEGAGGELGISLNMCLLGALVLLGLGVLLFSGGLSESETGPM
EEVERQVLPDPEVLEAVGDRQDGLREQLQAPVPPDSVPSLQNMGLLLDKLAKENQDIRLLQAQLQAQKEELQSLM
HFKGLEEENAQLRGALQQGEAFQRALESELQQLRARLQGLEADCVRGPDGVCLSGGRGPQGDKAIREQGPREQE
FLKQKEQLEAEAQALRQELERQRRLLGSVQQDLERSLQDASRGDPAHAGLAELGHRLAQKLQGLEENWGQDP
ANASKAWHQKSHFQNSREWSGKEKWWDGQDRKAHWHKKKEESGREKKNWGGQEDREPAGRWKEGRPRVE
JGSKKEGKRQGPKEPPRKSGSFHSSGEKQKQPRWREGTKDSHDPLPSWAELLRPKYRAPQGCSGVDECARQEG
TELAPVRQQELASLLRTYLARLPWAGQLTKEPLSPAFFGEDGIFRHDRLRFRDFVDALEDSLEEVAVQOT
DEVDDFEDFIFSHFFGDKALKKRSGKKDKHSQSPRAAGPREGHSHSHHHHHHRG

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FIGURE 961

CTCTTCTCACATCAGCGGGTCCAGGCCCAACCGACAGACTATGGGGGCTCCTTCACCAGGCGCTGCGTGGAGTGG
CTGCTGGGCCTCTACTTCCTCAGCCACATCCCCATCACCCTGTTTCATGGACCTGCAGGCGGTTCGTGCCGCGGAG
CTCTACCCAGTCGAGTTTAGAAACCTGCTGAAGTGGTATGCTAAGGAGTTCAAAGACCCACTGCTACAGGAGCCC
CCAGCCTGGTTTAAAGTCCTTTCTGTTTTGCGAGCTTGTGTTTCAGCTGCCTTTCTTTCCATTGCAACGTATGCC
TTCCTCAAAGGAAGCTGCAAGTGGATTGCAACTCCTGCAATCATCTACTCTGTTTCACACCATGACAACCTTAATT
CTGATACTCTCCACATTTCTGTTTGAGGATTTCTCCAAAGCCAGTGGTTTCAAGGGACAAAGACCTGAGACTTTG
CATGAACGGTTAACCCTTGTGTCTGTCTATGCCCCCTACTTACTCATCCATTTCATACTTTTAATTTTCATGTTG
CGGAGCCCCTACTACAAGTATGAAGAGAAAAAGAAAAAATGAAGGAAACAACCACTGGCCCAGGGTAGAGAT
GCCTACAGGGTGGTTGCTTGTGGATACATACAGGAACACTGCTCAGAACCACGTCTTCAGCAGCATTTGAAAC
ACTGGCAGCAATGCACAAGAGCAAGATGGTGTGAGGAACCATGTCAAACCCTCACCTTCTTCCATTTTTTTTTTT
TTTTTGAGACAGTCTCACTCTGTTGCCAGGCTGGAGTAAAGGGCAGTGGCATGATCTCGGCTCACTGCAACCTCC
GCCTCCTGGGCTCAAGCCATCTTCCTTAGCCTCCCAAGTAGCTAGAACTACAGGTGTGTACCAACACGTATGGCT
AATTTGTTTTGTTTTTTTTGTGTGTGGAGACAGGGTTTTGCCATGTTGCCAGGTTGGTCTCGAACGCCTAGG
CTCAAGTGATCTGCCCACCTCAGTCTCCCTAAGTGCTGGGATTACAGACGTGAACCACTGGGCCAGCCCAAACC
TTCACCTTCTAAGGGCACTGGGATGAACAGACCGATCGGCTTGAGGGTGGGCAAAGGGGTGTGGGCTAGGTTATA
AGGAAGTGGTACCAAATAACTGTGTTGCCTGAGTTCCACCGCAAGATTACTAAAAGCAGGACCAGACCAGAACT
GCTAAAGAACATGGCCTGTTTGACATGTTTCATGAGTCACCTGACCCACAGCATATATGCTTATGACTAAACCCTC
CACTCCTGATTCTCAAGAGTGATCACCTGTGAGCAAAATGAATAGTGGGATATTTTGGGCCATTTTAAATGTGA
AATTTTGCTCTTTAATGTTAATTCAAACTATATCAATGTTTTCTTGTTCACCTCTAACCCAAGGAAAAAAG
AGAAAACATACTATGCAAAGGAAGTTTAACTTAAGTTTTCTTAAGGGTCAGCCCAACAATGACTTTCAGTCAA
ATGGATTAAACTGGAAAATGTTTTGTTTCTGTTGTAAACAGATCATCTAGGCGAAAGTTTTTTTTTGTTGTTT
GCTTTTAAATTAGTTTATTTCTAAATCTTAGTCTTCCACATTTCTAGAGGCCACCTGACACAAGTCCCTGTATCT
GAAGTCTAGCATCTCAAGGCTGATCTGGAAGTGTGCTAGTATGCTCCCTAGTGGATAACTTAATCTTTAATACA
GTTCCGTCATTCCCATCTTGTTTTCAGAAGAGAAGGTGGCTACAGCCAGGCATACTTATCCACTGTGTGCATAG
AGGGTCTCTTCACGTTGATGCTTGGCATTCCATCAGCTTCTCTAAGTCTTTGCTCAAGTTCAAGGTTAAATGA
TGTTAGACAACAGGTCCCAGTCAGTCCCCTCTATTTTCACCCATTTTGCTCACAAGCCATATTGGCCCGATTAGT
GGTACTGTCTGACTCACGTGTGTGATCCAAATAAAGGTAGCTGCCGGGAATT

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FIGURE 962

GGCTTACAGGAGGGCAGCTCTGCAGTTGGGAGGGGCACCGTCCGGAGGAGACCAGGCCTCTACACACCCCCCACT
CTACTTATCATCCCTGCTCACACACCCTTGTTCCAAGGCTTTATGCATCGGATTTATTTTTCCAAATCAAGAGGAC
AGTGATAGATGCATTTTCCCCAGGCTGTCTCAGAAAGGTCGCTAAATGTATACTGTTGTCAGAATTGCTGAGATC
TCCCCCACTTTTGGTTTTTGCAGCAGTAAAACTCTTTCCACTGTGACTTATTTTCTCTCTCAGGCAGCCAGCC
ACCTGGTCCCTTGTTGCTGACTCTAGCACAGTGGCCAGGATCCAATACGAGTCCAGGGGTGACCGCAGGATGGTGG
GGCAGCGGGCTTCTCCACCTACCCAGCCACCAAGGCCCTGACGCACTGCCTCCTGCACCTTCAGCACATCCCT
GTGCACAGCTGGAAGGTTGCATGGCCCGCTCACCTTTGTTTCAGATGGGTGGAACGCTGATGATACCAGCTCCTC
CCTGCCGTGCCCTGCCACGGAGCAGGCATTGTGAAGTGGCTGGTGGTTTGCAGTCCACGTGGCATGGCCTCCAG
CCCAACCCACAGTGGAGACTGGAGACAGGGCAATGAGTCTGGTCCGGGGCACGTGGACATGCCCCATAGGGGCC
CACCCAGACTTAACAGGCAAGGTCCTGGGCATTGCGCGACGCAGGACTCAATGCTAAAGCAAGCCTGCCTGGCTC
TGTGCCAGGGCCCCCTCTTCTGATTTACACATCCCATTTTTACACAGACCCTTCCTTCTTAATAAAGGCTGACAGT
TCTGTTGGCAGCCAAGAACCCACACCATGAAGACAGGGAGTGAGGGGGCCTTTGTGCCCACTCCAGCACAGCTGC
GTTCTGGGGTGTGTGAGAGGCATGTTCTGTCTGTGCGCTGGTGGTCTCGTGAGACAGTTCCGAGGACGGGGAAA
TTGCAGGGTGGTGGGGCGTGAGGCTTATATGTGGAAGTGCAGAGTTCCGCTGCAGACGGATCTGGATATAC
ACTATGTATAATTGTTACGTGTAATTTAAATATATCTGTTGCCATCGTCATGAGAAGATTATATGTAAGGCTC
TGAAGGGAGAGGGAGATGTACATTCTGCCAGGCTCCTGGGGACCTTATCCGAGTCATGAAATTGATGACTGTTGA
TCCAGTGGTGCAAGAAGCTACACTCCATGTGTATCACGCTTATGACTCCTAATGTATTTTTAAGGCAAAAAATG
TCAGCCGACTCCATCTTACCCCTCGATTCTCGAGTCCAGCCTTTCTGTGCCAGTGCTTCACTGAGCCACAACG
CTCTCGCCATCGGGACCCGGCTGGGCCTGGAGTCTCGGGGCACAGTTGCCATGGAGCCCTCCTGGGTCATTCTAC
AAATGTGCTGAGTGCCAGCTGAAAACCCACAGGAGATGGAGTACCTTGGCCAAGCTTAAAGAGAAGATTTTCTC
AGGGTATTTATTAGTGTGTCCAGCAGGGTCAGGAAGCAGGATGGAAAGATGCATTACAGACTGTTAATTTATTAAC
AAGGCAAATGATTTTTGTGTTTTCTTGATGACAGACTATTAAGTTTGGGACTTATTTTCCATTTGAGAAGTTATAA
TATATATTTAAGATGATAAGTTTCTGCTTAAGTTGTGCCTTTCAGCTTCAATGAGTTTAAGGAGCACTAAGGGT
AATGATACCAATGAGGGTTGGTTTATTATCAAACCTGAATAGCTGTGGTTTCTCCAGTAAATATTTTCTTCTACT
GAACATGGAGCCATTATTAAGAGTTGTGTGTTTTTTATTATGTACATTTGTATATTTTTTTGCTTGTGTTGATGTT
CTATTTTTCTAATAGTTTTCTTTTAGTTTCTTAAAGTTGTGATACTAGATTTAGATTCTGATGCTAACTGCAAT
CAGGTTGGTCTCTGCTGGGTCTCTCCTGCTTTTATTTTACTTTAAGGACAAGTGTAGTTGTGCTCCACCACCTTT
CAAAAAATGTGAAACTGCCCTGCCCTCCCTTTTTGCTGACAACACTGTGTACATTGACCACTTCTTACCATACTT
TATGTTGTAAAATCAAACCTCTTTGTGGTACATTATCTCATGCTTCTGCAAAATTCGAATAAATCTATGGCTTCC
AAAAAAAAAAAAAAAA

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FIGURE 963

MKLMTVDPVVQEATLHVSSRL

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FIGURE 964

GCGTCACCACAGAGGCCAAGACAAGGGTCCATATCGCGGCATCCGGCTCCCGCCCGTCTTCAGGAGAGAAAGAAAA
AATAAAATATACTTGGGGAAGTTGTACCTGCCAGAATTAGTAAGAGCTTTCTTTAAGAAGACATTTGTCAAACCTC
AACAAATTGAAGGTAAACACCTTAAGAGTTGTAGTTACTGACCAGAAATATGGACAGACTTCTTAGACTTGGAGG
AGGTATGCCTGGACTGGGCCAGGGGCCACCTACAGATGCTCCTGCAGTGGACACAGCAGAACAAAGTCTATATCTC
TTCCCTGGCACTGTTAAAAATGTTAAAACATGGCCGTGCTGGAGTTCCAATGGAAGTTATGGGTTTGATGCTTGG
AGAATTTGTTGATGATTATACCGTCAGAGTGATTGATGTGTTTGCTATGCCACAGTCAGGAACAGGTGTCAGTGT
GGAGGCAGTTGATCCAGTGTTCCAAGCTAAAATGTTGGATATGTTGAAGCAGACAGGAAGGCCGGAGATGGTTGT
TGGTTGGTATCACAGTCACCCCTGGCTTTGGTTGTTGGCTTTCTGGTGTGGATATCAACACTCAGCAGAGCTTTGA
AGCCTTGTCGGAGAGAGCTGTGGCAGTGGTTGTGGATCCCATTCAGAGTGTAAGGAAAGGTTGTTATTGATGC
CTTCAGATTGATCAATGCTAATATGATGGTCTTAGGACATGAACCAAGACAAACAACTTCGAATCTGGGTCACTT
AAACAAGCCATCTATCCAGGCATTAATTCATGGACTAAACAGACATTATTACTCCATTACTATTAACATATCGGAA
AAATGAACTGGAACAGAAGATGTTGCTAAATTTGCATAAGAAGAGTTGGATGGAAGGTTTGACACTTCAGGACTA
CAGTGAACATTGTAAACACAATGAATCAGTGGTAAAGAGATGTTGGAATTAGCCAAGAATTACAATAAGGCTGT
AGAAGAAGAAGATAAGATGACACCTGAACAGCTGGCAATAAAGAATGTTGGCAAGCAGGACCCCAAACGTCATTT
GGAGGAACATGTGGATGTACTTATGACCTCAAATATTGTCCAGTGTTTAGCAGCTATGTTGGATACTGTCGTATT
TAAATAA

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FIGURE 965

MDRLRLGGGMPGLGQGPPTDAPAVDTAEQVYISSLALLKMLKHGRAGVPMMEVMGLMLGEFVDDYTVRVIDVFAM
PQSGTGVSVEAVDPVFQAKMLDMLKQTGRPEMVVGWYHSHPGFGCWLSGVDINTQQSFEALSERAVAVVVDPIQS
VKGKVVIDAFRLINANMMVLGHEPRQTTSNLGHLNKPSIQALIHGLNRHYYSITINYRKNELEQKMLLNHLKKSW
MEGLTLQDYSEHCKHNESVVKEMLELAKNYNKAVEEEDKMTPEQLAIKNVGKQDPKRHLEEHVDVLMTSNIVQCL
AAMLDTVVFK

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FIGURE 966

AAGGCAACAGACTCTTTATTTAATGTGGTTTTAAATACATCAAAATCAAGTCCCTGGCTGTTGTGAATACCCAAA
GGAGACAAAAAAGCTGCCAGTGCAGCTTCAAACAAGTCTGAGTGGCCGGGCTGGGCCATAAGGAAAGCAGTTACA
GGGACAGAAGGCAGCTCCCTTCCCCCAGGAAGGGCAAGAGGAGCAGGTGCCTGGCTGTCCCTGGGGTGACCACCT
CTGTGCTGTGCAAGGCGGAAAGGCTGGGGCAGCAGCTGGAGAATCAGCTCAGCAGGCCCTTGGCCCTCCCCCGTGG
TTCAGGCAGCTCCACTGGCCTCCGGGTGAGCCCTCAGGGCCACCGTGATGGGGTGGAGGAGGGTTAAATAACC
TTACAGAAATAACAGTCTCCTACAGAAAGTGCTGAGCTCAGCCCATGGTCCGATAACCTCATGGAAAACA
AACAATAAAAAAAGTGTGCTGACACCTCTCAGAATCTGGTGGACATGAAGCTCTCAGCTGGACAAG
GCTGAAAACAATTTACTATTAGCAGAGCCATGCGCTCTTGAGCTTCACCTGCTGTGGTCCCTGGAGGAAAAG
TGAATCTAAGAAACCAACACAGATCTTGGTCTTAAACTGAGGTACAAAGTGTGGGACCCACCCAGGTGAGG
TACACTGGCCTTCACTCATGGATAGGCACCTCCCTGCACTCGGCCAGGACCTGGGCTACTTTGGAAAGCAG
TAGAGCAGCTGTAGTGATTGGTTGATTGGTCAATGAAGAGAAGAAAXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXAAGGAGCCTCCAGAGCAGCTAGGAGGGCCTGAGCTGACCAAGCAAGCCCTG
TCAAGACAAATGCAGTCAAGACCTGGGTGTATTACTTGTCTTGAAGGGCAGGGAGGGGTCTGAGC
TCAATCAGACAGAGAAATGCTCAAGTCACTTCTGCCAACTCACTGTGATGGCAGCTACAGATGACAGCCCTC
TCAAGACTCTTCAGCTCACAGACAAGCCACTGACTTCATCTGTACACACCCCATCCCCAATGCAAGCCCACTGT
ACACTTACAGGTATAAATGCATTTGCAAGGCCTTGCAAAATGCCCTATGTACGTAAACTGACCCACAAAATCCA
AAATTGCAAGTGCCAGATGCCAGCCAGGTGAGAACATCCTGGCTTCAGCAATGGGCTGCTCAGCATGGGAGCCTT
TTATGGGCCAGGCCTGGCTGGGCTGCCGCTCCCTTCCCAGCATGACCCAACACCAGGCTCTCTAGGCCCTGGCGG
AGGTGGGCTCTTGAGGCCAGTCTGGCCTGATGCTTCTGTGCTCGGTGCTCCTGGGTAGCAAGGCGCTTCTGTGA
CCCTGGGGGAGCTGGGTGCTTGAGCCCCAGGCCCTCTGGCCTCCTCTCAGGGCCACTGTGAGTGGGGAGCCCT
GGCCACCAGCACTCAGGTCTGTACCTCTTGTTCAGGTCAATGCGCTCTGTCTGCAAGTGGCCGGCACAGCTTCT
CCAGCCGTTGGATTTTTACCTGCAGGCCCTCCAGTTCCTTTATCCCGACTGTTTTCTCCTCAGCCATCTCAAGCA
GGGCTTGTGTGCTCTCTCCACCGGGACCGGTACATGGTGGTTTCTTTCTCCAGCTTCTTGATCTTCTTAGTCA
TCTTTTCCATCTCCTGCTTGAATGTGGTGAATACCTCGCTGCTTTTGGAAAGTGTGTTCTGGAACCTCTCAAACT
TCTCTGTGTATAGGGCAAGCTGTTGCTTCAGGTGGGTCTCTTGCTGCTTCATCAGCTCACACATCCTCTGGGACT
CTACTGCCTCTTTTCAAGAGAAAATCCTTCTCCCGCTGGTGCCGCTCTTCTGCCTCCTTTAGCATCTCCTGGGCCT
GCTGGAGCTTGGCATCCACCAGCTGCTGTTGTAGGTCTTGTGTTTGAAGACTTTGTGATATGCTCCTCGCGCA
GCTCATACTGCTCAATCAGCTTCTTGAGCCTCTCAGCCAGCTCCATGTTCTCTTGGCGCAGCTTGGAGTTGCGCT
CATTGTGCTGTTCCATCCGGACGCGTGGGTGAGGTGAGGGATC

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FIGURE 967

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTTGCCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCAGAAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCCAGTGCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAACGCGGTACCGGCGG
GCATTGAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT
GAACTCTTCCGGGATGGGGTAAACTGGGGTTCGATTGTGGCCTTTTCTCCTTCGGCGGGGCACTGTGCGTGGA
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGGCTGGGATACTTTTGTGGAATCTATGGGAACAATGCAGCAGCCGAGAGC
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTTCTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA
CTCTTCAGTCGGAAATGACCAGACACTGACCATCCACTCTACCCCTCCACCCCTTCTCTGCTCCACCACATCCT
CCGTCCAGCCGCCATTGCCACCAGGAGAACCACTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGACAGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCAACCTCAGTTCCCTTG
GCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGG
GCAGGAGGGCCCTACCTGATTGGTGCAACCTTACCCCTTAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTT
GAAAGTTTTTCAGAACCTCTTCCCCAGAAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGA
TCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCCCTTTCTTCCATCCCTACCCCTAAGAGCCATTTAG
GGGCCACTTTTGACTAGGGATTGAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA
CTGGCTAGAGTCCTCACTCCCAGTCCAAATGTCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG
AGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAAGTTACAGCACCCCTAGTCCC
TTCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGG
CCTCAGCTGCCTCACTTCTTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAAG
GGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG
GAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCTGCTGGCCAGGC
AGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTC
AGGCCTCCCTCTCTCTTCTGCTCCACCCTTGGCCTGTCTCATCCCCAGGGGTCCCAGCCACCCCGGGCTCTCTGC
TGTACATATTTGAGACTAGTTTTTATTCCTTGTGAAGATGATATACTATTTTTGTTAAGCGTGTCTGTATTTATG
TGTGAGGAGCTGCTGGCTTGCACTGCGCGTGCACGTGGAGAGCTGGTGCCCGGAGATTGGACGGCTGATGCTCC
CTCCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCCCTCCCCAACCCCC
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTGTGTTTA
CTCAGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 968

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGGWDTFVELYGNNAAAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

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FIGURE 969A

TTCGCCGTTTGAATTGCTGCGGGCCCCGGGCCCTCACCTCACCTGAGGTCCGGCCGCCAGGGGTGCGCTATGCCG
TCGGGAGGTGACCAGTCGCCACCGCCCCCGCCTCCCCCTCCGGCGGCGGCAGCCTCGGATGAGGAGGAGGAGGAC
GACGGCGAGGCGGAAGACGCCGCGCCGTCTGCCGAGTCGCCACCCCTCAGATCCAGCAGCGGTTGACGAGCTG
TGCAGCCGCTCAACATGGACGAGGCGGCGGCCGAGGCCTGGGACAGCTACCGCAGCATGAGCGAAAGCTAC
ACGCTGGAGGGAAATGATCTTCATTGGTTAGCATGTGCCTTATATGTGGCTTGAGAAAATCTGTTCCAACGTGA
AGCAAAGGGACAGTGAAGGAACTATGTATCTTTAACTAGAATCCTGAAATGTTTCAGAGCAGAGCTTAATCGAA
TTTTTTAATAAGATGAAGAAGTGGGAAGACATGGCAAATCTACCCACATTTTCAGAGAACGTACTGAGAGATTA
GAAAGAACTTCACTGTTTCTGCTGTAATTTTTAAGAAATATGAACCCATTTTTTCAGGACATCTTTAAATACCCT
CAAGAGGAGCAACCTCGTCAGCAGCGAGGAAGGAAACAGCGGCGACAGCCCTGTACTGTGTCTGAAATTTTCCAT
TTTTGTTGGGTGCTTTTTATATATGCAAAGGTAATTTCCCATGATTAGTGATGATTGGTCAATTCTTATCAC
CTGCTGCTGTGTGCTTTGGACTTAGTTTATGGAAATGCACCTCAGTGTTCTAATCGTAAAGAACTTGTGAACCCCT
AATTTTAAAGGCTTATCTGAAGATTTTCATGCTAAAGATTCTAAACCTTCTCTGACCCCTTGTATCATTGAG
AAACTGTGTTCCCTTACATGATGGCCTAGTTTTGGAAGCAAAGGGGATAAAGGAACATTTCTGGAAACCCCTATATT
AGGAAACTTTATGAAAAAAGCTCCTTAAGGGAAAAAGAAATCTCACTGGGTTTCTAGAACCTGGGAACCTTT
GGAGAGAGTTTTAAAGCCATCAATAAGGCCTATGAGGAGTATGTTTTATCTGTTGGGAATTTAGATGAGCGGATA
TTTCTTGGAGAGGATGCTGAGGAGGAAATTGGGACTCTCTCAAGGTGTCTGAACGCTGGTTTCAGGAACAGAGACT
GCTGAAAGGGTGCAGATGAAAAACATCTTACAGCAGCATTTTGACAAGTCCAAAGCACTTAGAATCTCCACACCA
CTAACTGGTGTTAGGTACATTAAGGAGAATAGCCCTTGTGTGACTCCAGTTTCTACAGCTACGCATAGCTTGAGT
CGTCTTCACACCATGCTGACAGGCCTCAGGAATGCACCAAGTGAGAACTGGAACAGATTCTCAGGACATGTTCC
AGAGATCCAACCCAGGCTATTGCTAACAGACTGAAAGAAATGTTTGAAATATATTCTCAGCATTTCCAGCCAGAC
GAGGATTTTCAGTAATTGTGCTAAAGAAATTGCCAGCAAACATTTTCGTTTTGCGGAGATGCTTTACTATAAAGTA
TTAGAATCTGTTATTGAGCAGGAACAAAAAGACTAGGAGACATGGATTTATCTGGTATTCTGGAACAAGATGCA
TTCCACAGATCTCTCTTGGCCTGCTGCCTTGAGGTCGTCACCTTTTCTTATAAGCCTCCTGGGAATTTTCCATTT
ATTACTGAAATATTTGATGTGCCTCTTTATCATTTTTATAAGGTGATAGAAGTATTCTATTAGAGCAGAAGATGGC
CTTTGTAGAGAGGTGGTAAACACCTTAATCAGATTGAAGAACAGATCTTAGATCATTGGCATGGAAACCAGAG
TCTCCACTCTGGGAAAAAATTAGAGACAATGAAACAGAGTTCTTACATGTGAAGAGGTATGCCACCTCAGAAC
CTGGAAAGGGCAGATGAAATTTGCATTGCTGGCTCCCTTTGACTCCCAGAAGGGTGACTGAAGTTCTGTGCTGAT
ACTGGAGGACTTGAAGGAGCATAACATCTCAACCACATTATACGATAGGTACAGCTCCCCACCAGCCAGCACT
ACCAGAAGGCGGCTATTTGTTGAGAATGATAGCCCTCTGATGGAGGGACGCCTGGGCGCATGCCCCCACAGCCC
CTAGTCAATGCTGTCCCTGTGCAGAATGTATCTGGGGAGACTGTTTCTGTACACCAGTTCTTGGACAGACTTTG
GTCACCATGGCAACCGCCACTGTCACAGCCAACAATGGGCAAACGGTAACCATTCTGTGCAAGGTATTGCCAAT
GAAATGGAGGGATAACATTCTTCCCTGTCCAAGTCAATGTTGGGGGGCAGGCACAAGCTGTGACAGGCTCCATC
CAGCCCTCAGTGCTCAGGCCCTGGCTGGAAGTCTGAGCTCTCAACAGGTGACAGGAACAACCTTTGCAAGTCCCT
GGTCAAGTGCCATTCAACAGATTTCCCCAGGTGGCCAACAGCAGAAGCAAGGCCAGTCTGTAACCAGCAGTAGT
AATAGACCCAGGAAGACCAGCTCTTTATCGCTTTTCTTTAGAAAGGTATACCATTTAGCAGCTGTCCGCCTTCGG
GATCTCTGTGCCAACTAGATATTTTCAGATGAATTGAGGAAAAAATCTGGACCTGCTTTGAATTCTCCATAATT
CAGTGTCTGAACTTATGATGGACAGACATCTGGACCAGTTATTAATGTGTGCCATTTATGTGATGGCAAAGGTC
ACAAAAGAAGATAAGTCCTTCCAGAACATTATGCGTTGTTATAGGACTCAGCCGAGGCCCCGGAGCCAGGTGTAT
AGAAGTGTTTTGATAAAAAGGGAAAAAGAAAAAGAAATTTCTGGCAGCAGTGATAGCAGAAGCCATCAGAATTCT
CCAACAGAACTAAACAAAGATAGAACCAGTAGAGACTCCAGTCCAGTTATGAGGTCAAGCAGCACCTTGCCAGTT
CCACAGCCCAGCAGTGCTCCTCCCACACCTACTCGCCTCAGAGTGCCAACAGTGACATGGAAGAAGAGGAGAGG
GGAGACCTCATTACAGTTCTACAACAACATCTACATCAAACAGATTAAGACATTTGCCATGAAGTACTCACAGGCA
AATATGGATGCTCCTCCACTCTCTCCCTATCCATTTGTAAGAACAGGCTCCCCTCGCCGAATACAGTTGTCTCAA
AATCATCCTGTCTACATTTCCCCACATAAAATGAAACAATGCTTTCTCTCGAGAAAAAGATTTTCTATTACTTC
AGCAACAGTCCTTCAAAGAGACTGAGAGAAATTAATAGTATGATACGCACAGGAGAAAACCTCTACTAAAAAGAGA
GGAATTTCTTTGGAAGATGGAAGTGAATCACCTGCAAAAAGAATTTGCCAGAAAAATCATTCTGCCTTATTACGC
CGTCTCCAAGATGTAGCTAATGACCGTGGTTCCCACTGAGGTTAGTCTCTTGTATTAACTCTTCACAAAATCTG
TTTAGCAGCAGCCTTTAATGCATCTAGATTATGGAGCTTTTTTCTTAAATCCAGCTGATGAGTTACAGCCTGTTA

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FIGURE 969B

GTAACATGAGGGGACATTTTGGTGAGAAATGGGACTTAACTCCTTCCAGTGTCTTAGAACATTTTAATTCATCC
CAACTGTCTTTTTTTCCCTACCACTCAGTGATTACTGTCAAGGCTGCTTACAATCCAACTTGGGTTTTTGGCTC
TGGCAAAGCTTTTAGAAATACTGCAAGAAATGATGTGTACCCAACGTGAGCATAGGAGGCTTCTGTTGACGTCTC
CAACAGAAGAACTGTGTTTCAAGTTCAATCCTACCTGTTTTGTGGTCAGCTGTAGTCCTCATAAAAAGCAAACA
AAAATTAGGTATTTTGTCTTAAACACCTGGTAGGAGTGTGTGATTTTTTGCATTCTTGACAAAGGAGAGCACAC
CCAGGTTTGGAGGTCCTAGGTCATTAGCCCTCGTCTCCCGTTCCCTTTGTGCACATCTTCCCTCTCCCCATTCCG
TGTGGTGCAGTGTGAAAAGTCCTTGATTGTTCCGGGTGTGCAATGTCTGAGTGAACCTGTATAAGTGGAGGCACTT
TAGGGCTGTAAATGCATGATTTTGTAAACCAGATTTTGTCTGTATATTTGTGATAGCACTTTCTACAATGTGAAC
TTTATTAAATACAAAACCTCCAGGCTAAACATCCAATATTTTCTTTAATGCTTTTATATTTTTTTAAAATGTTAA
AACCCTATAGCCACCTTTTGGGAATGTTTTAAATTCTCCAGTTTTTTGTTATATAGGGATCAACCAGCTAAGAA
AAGATTTTAAGTCAAGTTGAATTGAGGGGATTAATATGAAAACCTATGACCTCTTCCTTTAGGAGGGAGTTATCT
AAAAGAAATGTCTATTAAGGTGATATATTTAAAAATATTTTTGGGTGTTCTTGGCAGTTTTAAAAAATTGGTTGG
AGAATTTAGGTTTTTATTAGTACCATAGTACCATTTATACAAATTAGAAAATGTTATTTAACAGCTGAATTATCT
ATACATATCTTTATTAATCACTATTGTTCCAGCAGTTTTCAAGTCAAATTAATAATCTTATTAGGGAGAAAATTC
AATTGTAAATTGAATCAGTATAAACAAAGTTACTAGGTAACCTTCATATTGCTGAGAGAAATATGGAACCTTACATT
GTTCAATTAGAATAGTGTCTCCCCAAATATTTATAAACTTCTCAAGATACTGCTACGTGTAATTTTATATGAA
GATAAGTGTATTTTTCAATAAAGCATTATATAAATTAAAAA

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FIGURE 970

MPSSGGDQSPPPPPPPPPAAAAASDEEEEDDGEAEDAAPSAESPTPQIQRFDELCSRLNMDEAAARPEAWDSYRSMSE
SYTLEGNDLHWLACALYVACRKSVP TVSKGTVEGNYVSLTRILKCSEQSLIEFFNKMKKWEDMANLPPHFRERTE
RLERNFTVSAVIFKKYEP IFQDIFKYPQEEQPRQQRGRKQRRQPCTVSEIFHFCWVLF IYAKGNFPMISDDL VNS
YHLLLCALDLVYGNALQCSNRKELVNP NFKGLSEDFHAKDSKPSSDPPC IIEKLCSLHDGLVLEAKGIKEHFWKP
YIRKLYEKKLLKGKEENLTGFLEPGNFGESFKAINKAYEEYVLSVGNLDERIFLGEDAE EEEIGTLSRCLNAGSGT
ETAERVQMKNILQQHFDKSKALRISTPLTG VRYIKENSPCVTPVSTATHSLSR LHMTLTGLRNAPSEKLEQILRT
CSRDP TQAIANRLKEMFEIYSQH FQDDEDFSNCAKEIASKHFRFAEMLYYKVLESVIEQE QKRLGDM DLSGILEQ
DAFHRSLLACCLEVVTF SYKPPGNFPFITEIFDVPLYHFYKVIEVFIRAEDGLCREVVKHLNQIEEQILDHLAWK
PESPLWEKIRDNENRVPTCEEVMPPQNLERADEIC IAGSPLTPRRVTEVRADTGGLGRSITSPTTLYDRYSSPPA
STTRRRLFVENDSPSDGGTPGRMPPQPLVNAV PVQNVSGETVSVTPVPGQTLVTMATATVTANNGQTVTI PVQGI
ANENGGITFFFPVQVNVGGQAQAVTGS IQPLSAQALAGSLSSQQVTGTTLQVPGQVAIQQISPGGQQQKQGQSVTS
SSNRPRKTSSLSLFFRKVYHLAAVRLRDLCAKLD ISDEL RKKIWTCTFEFSIIQCPELMMDRHL DQLLMCAIYVMA
KVTKEDKSFQ NIMRCYRTQPQARSQVYRSVL IKGKRKRNRNSGSSDSRSHQNSPTELNKDRTSRDSSPVMR SSSTL
PVPQPSSAPPTPTRLTGANS DMEEEERGD LIQFYNNIYIKQIKTFAMKYSQANMDAPPLSPYPFVRTGSPRRIQL
SQNHFPVYISPHKNETMLSPREKIFY YFSNSPSKRLREINSMIRTGETPTKKRGILLEDGSESPAKRICPENHSAL
LRRLQDVANDRGSH

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FIGURE 971A

TTCGCCGTTTGAATTGCTGCGGGCCCGGGCCCTCACCTCACCTGAGGTCCGGCCGCCAGGGGTGCGCTATGCCG
TCGGGAGGTGACCAGTCGCCACCGCCCCCGCCTCCCCCTCCGGCGGCGGCAGCCTCGGATGAGGAGGAGGAGGAC
GACGGCGAGGCGGAAGACGCCGCGCGCTCTGCCGAGTCGCCACCCCTCAGATCCAGCAGCGTTTCGACGAGCTG
TGCAGCCGCTCAACATGGACGAGGCGGCGGCCCCGAGGCCTGGGACAGCTACCGCAGCATGAGCGAAAGCTAC
...TGGAGGGAAATGATCTTCATTGGTTAGCATGTGCCCTTATATGTGGCTTGCAGAAAATCTGTTCCAAGTGT
AAAGGGACAGTGGAAAGGAACTATGTATCTTTAACTAGAAATCCTGAAATGTTGAGAGCAGAGCTTAATCGAA
...TTAATAAGATGAAGAAGTGGGAAGACATGGCAAATCTACCCCCACATTCAGAGAACGTACTGAGAGATTA
...AAAGAACTTCACGTGTTTCTGCTGTAATTTTAAAGAAATATGAACCCATTTTTCAGGACATCTTTAAATACCCT
...CAGGAGCAACCTCGTCAGCAGCGAGGAAGGAAACAGCGGCGACAGCCCTGTACTGTGTCTGAAATTTTCCAT
...TGTGGGTGCTTTTTATATATGCAAAAGGTAATTTCCCATGATTAGTGATGATTGGTCAATCTTATCAC
...TGTGTGTGCTTTGGACTTAGTTTATGGAAATGCACTTCAGTGTCTAATCGTAAAGAACTTGTGAACCT
...TTAAAGGCTTATCTGAAGATTTTCATGCTAAAGATTCTAAACCTTCCTCTGACCCCCCTTGTATCATTGAG
...ACTGTGTTTCTTACATGATGGCCTAGTTTTGGAAGCAAAGGGGATAAAGGAACATTTCTGGAAACCTTATATT
...GAAACTTTTATGAAAAAAGCTCCTTAAGGGAAAAAGAAATCTCACTGGGTTTCTAGAACCTGGGAACCTT
...GAGAGAGTTTTAAAGCCATCAATAAGGCCTATGAGGAGTATGTTTTATCTGTTGGGAATTTAGATGAGCGGATA
...TTCTTGGAGAGGATGCTGAGGAGGAAATTGGGACTCTCTCAAGGTGCTCTGAACGCTGGTTCAGGAACAGAGACT
...GCTGAAAGGGTGCAGATGAAAAACATCTTACAGCAGCATTTTGACAAGTCCAAAGCACTTAGAATCTCCACACCA
...CTAACTGGTGTTAGGTACATTAAGGAGAATAGCCCTTGTGTGACTCCAGTTTCTACAGCTACGCATAGCTTGAGT
...CGTCTTACACCATGCTGACAGGCCTCAGGAATGCACCAAGTGAGAACTGGAACAGATTCTCAGGACATGTTCC
...AGAGATCCAACCCAGGCTATTGCTAACAGACTGAAAGAAATGTTTGAATATATTCTCAGCATTTCCAGCCAGAC
...GAGGATTTAGTAATTTGTGCTAAAGAAATTGCCAGCAAACATTTTCGTTTTGCGGAGATGCTTTACTATAAAGTA
...TTAGAATCTGTTATTGAGCAGGAACAAAAAGACTAGGAGACATGGATTTATCTGGTATTCTGGAACAAGATGCA
...TTCCACAGATCTCTCTTGGCCTGCTGCCTTGAGGTGCTCACTTTTTCTTATAAGCCTCCTGGGAATTTTCCATTT
...ATTACTGAAATATTTGATGTGCTCTTTATCATTTTTATAAGGTGATAGAAGTATTCTATTAGAGCAGAAGATGGC
...CTTTGTAGAGAGGTGGTAAACACCTTAATCAGATTGAAGAACAGATCTTAGATCATTTGGCATGGAACCCAGAG
...TCTCCACTCTGGGAAAAAATTAGAGACAATGAAAACAGAGTTCCTACATGTGAAGAGGTGATGCCACCTCAGAAC
...CTGGAAGGGCAGATGAAATTTGCATTGCTGGCTCCCTTTGACTCCAGAAGGGTGAAGTTCGTGCTGAT
...ACTGGAGGACTTGAAGGAGCATAACATCTCAACACATTATACGATAGGTACAGCTCCCCACCAGCCAGCACT
...ACCAGAAGGCGGCTATTTGTTGAGAATGATAGCCCTCTGATGGAGGGACGCTGGGCGCATGCCCCACAGCCC
...CTAGTCAATGCTGTCCCTGTGCAGAATGTATCTGGGGAGACTGTTTCTGTACACCAGTTCCTGGACAGACTTTG
...GTCACCATGGCAACCGCCACTGTACAGCCAACAATGGGCAAACGGTAACCATTCTGTGCAAGGTATTGCCAAT
...GAAATGGAGGGATAACATTCTTCCCTGTCCAAGTCAATGTTGGGGGCGAGGCACAAGCTGTGACAGGCTCCATC
...CAGCCCCTCAGTGCTCAGGCCCTGGCTGGAAGTCTGAGCTCTCAACAGGTGACAGGAACAACCTTTGCAAGTCCCT
...GGTCAAGTGGCCATTCAACAGATTTCCCCAGGTGGCCAACAGCAGAAGCAAGGCCAGTCTGTAACCAGCAGTAGT
...AATAGACCCAGGAAGACCAGCTCTTTATCGCTTTTCTTTAGAAAGGTATACCATTTAGCAGCTGTCCGCCTTCGG
...GATCTCTGTGCCAACTAGATATTTAGATGAATTGAGGAAAAAATCTGGACCTGCTTTGAATTTCCATAATT
...CAGTGTCTGAACTTATGATGGACAGACATCTGGACCAGTTATTAATGTGTGCCATTTATGTGATGGCAAAGGTC
...ACAAAAGAAGATAAGTCCTTCCAGAACATTATGCGTTGTTATAGGACTCAGCCGAGGCCCCGGAGCCAGGTGTAT
...AGAAGTGTTTTGATAAAAAGGAAAAAGAAAAAGAAATTTCTGGCAGCAGTGATAGCAGAAGCCATCAGAATTCT
...CCAACAGAATAAACAAGATAGAACAGTAGAGACTCCAGTCCAGTTATGAGGTCAAGCAGCACCTTGCCAGTT
...CCACAGCCCAGCAGTGCTCCTCCACACCTACTCGCCTCAGAGTGCCAACAGTGACATGGAAAGAGAGGAGAGG
...GGAGACCTCATTCACTTCTACAACAACATCTACATCAAACAGATTAAGACATTTGCCATGAAGTACTCACAGGCA
...AATATGGATGCTCCTCCACTCTCTCCCTATCCATTTGTAAGAACAGGCTCCCCCTCGCCGAATACAGTTGTCTCAA
...AATCATCCTGTCTACATTTCCCCACATAAAAATGAAACAATGCTTTCTCCTCGAGAAAAAGATTTTCTATTACTTC
...AGCAACAGTCCTTCAAAGAGACTGAGAGAAATTAATAGTATGATACGCACAGGAGAACTCCTACTAAAAAGAGA
...GGAATTTCTTTGGAAGATGGAAGTGAATCACCTGCAAAAAGAATTTGCCAGAAAAATCATTCTGCCTTATTACGC
...CGTCTCCAAGATGTAGCTAATGACCGTGGTTCCCACTGAGGTTAGTCTCTTGTATTAACTCTTCACAAAATCTG
...TTTAGCAGCAGCCTTTAATGCATCTAGATTATGGAGCTTTTTTCCTTAATCCAGCTGATGAGTTACAGCCTGTTA

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FIGURE 971B

GTAACATGAGGGGACATTTTGGTGAGAAATGGGACTTAACTCCTTCCAGTGTCTTAGAACATTTTAATTCATCC
CAACTGTCTTTTTTCCCTACCACTCAGTGATTACTGTCAAGGCTGCTTACAATCCAACTTGGGTTTTTGGCTC
TGGCAAAGCTTTTAGAAATACTGCAAGAAATGATGTGTACCCAACGTGAGCATAGGAGGCTTCTGTTGACGTCTC
CAACAGAAGAACTGTGTTTCAAGTTCAATCCTACCTGTTTTGTGGTCAGCTGTAGTCCTCATAAAAAGCAAAACA
AAAATTAGGTATTTTGTCTTAAACACCTGGTAGGAGTGTGTGATTTTTTGCATTCTTGACAAAGGAGAGCACAC
CCAGGTTTGGAGGTCTTAGGTCATTAGCCCTCGTCTCCCGTTCCCTTTGTGCACATCTTCCCTCTCCCCATTCCG
TGTGGTGCAGTGTGAAAAGTCCTTGATTGTTCCGGGTGTGCAATGTCTGAGTGAACCTGTATAAGTGGAGGCACTT
TAGGGCTGTAAATGCATGATTTTGTAAACCAGATTTTGCTGTATATTTGTGATAGCACTTCTACAATGTGAAC
TTTATTAAATACAAAACCTCCAGGCTAAACATCCAATATTTTCTTTAATGCTTTTATATTTTTTTTAAATGTAA
AACCCTATAGCCACCTTTTGGGAATGTTTTAAATTCCTCAGTTTTTTGTTATATAGGGATCAACCAGCTAAGAA
AAGATTTTAAGTCAAGTTGAATTGAGGGGATTAATATGAAAACCTATGACCTCTTCCCTTAGGAGGGAGTTATCT
AAAAGAAATGTCTATTAAGGTGATATATTTAAAAATATTTTTGGGTGTTCTGGCAGTTTAAAAAATTGGTTGG
AGAATTTAGGTTTTTATTAGTACCATAGTACCATTTATACAAATTAGAAAATGTTATTTAACAGCTGAATTATCT
ATACATATCTTTATTAATCACTATTGTTCCAGCAGTTTTCAAGTCAAATTAATAATCTTATTAGGGAGAAAATTC
AATTGTAAATTGAATCAGTATAAACAAAGTTACTAGGTAACCTCATATTGCTGAGAGAAATATGGAACCTACATT
GTTCAATTAGAATAGTGTCTCCCCAAATATTTATAAACTTCTCAAGATACTGCTACGTGTAATTTTATATGAA
GATAAGTGTATTTTTCAATAAAGCATTATATAAATTAAAAA

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FIGURE 972

MPSSGDQSPPPPPPPPPAAAAASDEEEEDDGEAEDAAPSAESPTPQIQORFDELCSRLNMDEARPEAWDSYRSMSE
SYTLEGNDLHWLACALYVACRKSVP TVSKGTVEGNYVSLTRILKCSEQSLIEFFNKMKKWEDMANLPPHFRERTE
RLERNFTVSAVIFKKYEP IFQDIFKYPQEEQPROQRGRKQRRQPCTVSEIFHFCWVLFYIYAKGNFPMISDDL VNS
YHLLLCALDLVYGNALQCSNRKELVNP NFKGLSEDFHAKDSKPSSDPPCIEKLCSLHDGLVLEAKGIKEHFWKP
YIRKLYEKKLLKGKEENLTGFLEPGNFGESFKAINKAYEEYVLSVGNLDERIFLGEDAE EEEIGTL SRCLNAGSGT
ETAERVQMKNILQQHF DKSALRISTPLTGVRYIKENSPCVTPVSTATHSL SRLHTMLTGLRNAPSEKLEQILRT
CSRDP TQAIANRLKEMFEIYSQH FQPD EDFS NCAKEIASKHFRFAEMLYYKVLESVIEQE QKRLGDM DLSGILEQ
DAFHRSLLACCLEVVTF SYKPPGNFPF ITEIFDVPLYHFYKVIEVFIRAEDGLCREVVKHLNQIEEQILDHLAWK
PESPLWEKIRDNENRVPTCEEVMPPQNLERADEIC IAGSPLTPRRVTEVRADTGGLGRSITSPTTLYDRYSSPPA
STTRRRLEFVENDSPSDGGTPGRMPPQPLVNAV PVQNVSGETVSVTPVPGQTLVTMATATVTANNGQTVTIPVQGI
ANENGGITFFPVQVNVGGQAQAVTGS IQPLSAQALAGSLSSQQVTGTTLQVPGQVAIQQISPGGQQQKQGSVTS
SSNRPRKTSSLSLFFRKVYHLAAVRLRDLCAKLDISDEL RKKIWTCTFEFSIIQCP ELMMDRHL DQLLMCAIYVMA
KVTKEDKSFQNMRCYRTQPQARSQVYRSVLIKGKRKRNRNSGSSDSRSHQNSPTEL NKDRTSRDSSPVMRSSSTL
PVPQPSSAPPTPTRLTGANS DMEEEEERGD LIQFYNNIYIKQIKTFAMKYSQANMDAPPLSPYPFVRTGSPRRIQL
SQNHVPYISPHKNETMLSPREKIFYYSNSPSKRLREINSMIRTGETPTKKRGILLEDGSESPAKRICPENHSAL
LRR LQDVANDRGSH

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FIGURE 973

TGGGCAATTAACCAAGCCATAGCCAATGAATATGAAGTCCGGAGAAAGCTGCTAATAAAACGTTTGGATGTCAC
GTACAATCCTTTGGCTGGTCTGACAGAGCTAAGAGCCAGACAGAAAAATTAGCCAAGGTTTACCAGCCGAAACGT
TCAGTCTTATCCCTAAAACTACTATTTCTGTTGCCATCTTTTGGCTGCAAGGCAGGACTTGTCAAAGATTTTA
AGGACAAGCAGCGGCTCTATAAGAGAAAAGACTGCCTGTGCCATCAATAAGGTGTTGATGGGCAGGGTGCCTGAC
AGAGGTGGTAGACCCAATGAAATCGAACCTCCACCCCCAGAGATGCCACCGTGGCAGAAAGAGGCAAGATGGCCCC
CAGCAGCAAACAGGAGGCCGAGTAGGAGGGAGAGGTGGCTATGAACATTCTCATACGGAGGACGAGGAGGTCTAT
GAACAAGGAGGCGGGAGAGGTGGACGTGGTGGCTATGACCATGGTGGCCGAGGGGGAGGAAGAGGAAATAAGCAT
CAAGGAGGCTGGACAGATGGAGGGAGTGGTGGAGGAGGTGGCTACCAAGATGGTGGTTATCGAGATTACAGTTTC
CAGCCAGGTGGCTATCATGGTGGCCACAGCAGTGGTGGCTATCAAGGCGGAGGTTATGGTGGCTTCCAAACATCT
TCTTCATATACAGGAAGTGGATACCAGGGTGGTGGCTACCAGCAGGACAATAGATACCAAGATGGCGGGCACCAT
GGTGATCGTGGTGGTGGTGGTGGTGGGCGAGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
TGGGGAGGAAGAGGGAGGCCAGAATTATCACCAGGGGGTCAATTTGAACAGCATTTCCAGCATGGAGGTTATCAG
TATAATCATTTCTGGATTTGGACAGGGAAGACATTACACTAGTTGAGGCTACCGAATTTTACATTTTGCTAGAGCT
CAAGTAATAGAACTTAGTTTCAGAAATCCTGAATTCAGCACCTATTTTGAATTAATGTGAGACCACAGGTGGCAG
GCAGATTCCTGCTTGGCATAAGCATTGTAGGTCTTCATTCAATTCCTGTTAGATTTTTTTATTGGACTTACATAA
TGCCGTTTATTTGAGAAACACATAACATCTCTCCTTCCTATGAAAAATTTTTTAAAAGGTGGTTAAAATTGCCTT
TAATTGCCCAGTAGACTAATTCCACAGTCAGAACATGCAAATTTTTTGAAGAAATTACTTGAATAAGTAGTTTT
CATGTTTTCAATATGCAGTTTTGAAAATGAGGATTCACCTAGACTTTTTTAGATTTACTACTAGGAAACCTTCCT
CATATGAATAACCATTTATATGTGTTTTGCTTAAAGTATTCCAATGCCTATTTTCCAAGCACAGTTCTGCCCCC
GGTTGACTTTTATGCCACGTGTGCTTCATGATGGAATTTTAGGTCAGTTCCTATTAAATGAGCTCTTCTGCAGA
TAGCACATTCAGTAGCCTTATTTTGTGATGGAATACTGTATCATATGCTCAACTCTGAAAACCTTGAACACGGC
CAAAATCCATAAAGATTATAAAAGCAAATAAGTTGTGAAGCTATAGTACATGTAGGCATTTAGTTAAGTATAGC
AATTCAAATGACCTGCATCCATCCAAAACAAATTCCTCCTTCAACCTATTTTTTACTTGAATTTGCTAGAAGA
AATAGCAAACCGAAATTTGTTTTATGCATGAGTTAATACCACTGGCTCAGCAAATACAAGTTAGTTTGCTTTAAG
CAGGTAACTTTTTTTTGTAATGGAAGAAATGCACTACAAAGTTAAGACAGATTTTTGCTAAGTGCAGGAGGCCCTT
TATTATTGCTGCAGAAAACAAAAGCCTGGCTGAGTTGATGTTTTACATTCTCCCTTACTGAAATCTACATGACAT
GATGCTTCTTGCTGGGTTTTTTGTACATGTAAACATTGTCAAGCTGTGAAAGAAAATGGCTGGAGGTGTGCTTTGT
GTGAAAGGTGAGCAATAAAGTATCTGTTAAGTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 974

WAINQAIANEYEVRRKLLIKRLDVTVQSFGWSDRAKSQTEKLAKVYQPKRSVLSPKTTISVAHLLAARQDLSKIL
RTSSGSIREKTACAINKVL MGRVPDRGGRPNEIEPPPPPEMPWQKRQDGPQQQTGGRVGGRGGEHSSYGGRGGH
EQGGGRGGRGGYDHGGRGGRGNKHQGGWTDGGSGGGGGYQDGGYRDSGFQPGGYHGGHSSGGYQGGGYGGFQTS
SSYTGSYQGGGYQQDNRYQDGGHHGDRGGGRGGRGGRGGRGGRAGQGGGWGGRGSQNYHQGGQFEQHFQHGGYQ
YNHSGFGQGRHYTS

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FIGURE 975

ATGGCAGCCCGAGTACTTATAATTGGCAGTGGAGGAAGGGAACATACGCTGGCCTGGAAACTTGCACAGTCTCAT
CATGTCAAACAAGTGTTGGTTGCCCCAGGAAACGCAGGCACTGCCTGCTCTGAAAAGATTTCAAATACCGCCATC
TCAATCAGTGACCACACTGCCCTTGCTCAATTCTGCAAAGAGAAGAAAATTGAATTTGTAGTTGTTGGACCAGAA
GCACCTCTGGCTGCTGGGATTGTTGGGAACCTGAGGTCTGCAGGAGTGCAATGCTTTGGCCCAACAGCAGAAGCG
GCTCAGTTAGAGTCCAGCAAAAAGTTTGCCAAAGAGTTTATGGACAGACATGGAATCCCAACCGCACAAATGGAAG
GCTTTCACCAAACCTGAAAGAAGCCTGCAGCTTCATTTTGAGTGCAGACTTCCCTGCTTTGGTTGTGAAGGCCAGT
GGTCTTGCAGCTGGAAAAGGGGTGATTGTTGCAAAGAGCAAAGAAGAGGCCTGCAAAGCTGTACAAGAGATCATG
CAGGAGAAAGCCTTTGGGGCAGCTGGAGAAACAATTGTCATTGAAGAAGTCTTGACGGAGAAGAGGTGTCGTGT
CTGTGTTTCACTGATGGCAAGACTGTGGCCCCCATGCCCCAGCACAGGACCATAAGCGATTACTGGAGGGAGAT
GGTGGCCCTAACACAGGGGGAATGGGAGCCTATTGTCCAGCCCCTCAGGTTTCTAATGATCTATTACTAAAAATT
AAAGATACTGTTCTTCAGAGGACAGTGGATGGCATGCAGCAAGAGGGTACTCCATATACAGGTATTCTCTATGCT
GGAATAATGCTGACCAAGAATGGCCCAAAGTTCTAGAGTTTAATTGCCGTTTGGTGATCCAGAGTGCCAAGTA
ATCCTCCCCTTCTTAAAAGTGATCTTTATGAAGTGATTGAGTCCACCTTAGATGGACTGCTCTGCACATCTCTG
CCTGTTTGGCTAGAAAACCAACCGCCCTAACTGTTGTATGGCAAGTAAAGGTTATCCTGGAGACTACACCAAG
GGTGTAGAGATAACAGGGTTTCTGAGGCTCAAGCTCTAGGACTGGAGGTGTTCCATGCAGGCCTGCCCTCAA
AATGGCAAAGTAGTAACCTCATGGGGGTAGAGTTCTTGCAGTCACAGCCATCCGGGAAAATCTCATATCAGCCCTT
GAGGAAGCCAAGAAAGGACTAGCTGCTATAAAGTTTGAGGGAGCAATTTATAGGAAAGACGTCGGCTTTCGTGCC
ATAGCTTTCCTCCAGCAGCCCAGGAGTTTGACTTACAAGGAATCTGGAGTAGATATCGCAGCTGGAAATATGCTG
GTCAAGAAAATTGAGCCTTTAGCAAAAGCCACTTCCAGATCAGGCTGTAAAGTTGATCTTGGAGGTTTTGCTGGT
CTTTTTGATTTAAAAGCAGCTGGTTTTCAAAGATCCCCCTTCTGGCCTCTGGAACAGATGGCGTTGGAACATAACTA
AAGATTGCCCAGCTATGCAATAAACATGATACCATTGGTCAAGATTGGTAGCAATGTGTGTTAATGATATTCTG
GCACAAGGAGCAGAGCCCCCTCTTCTTCCTTGATTACTTTTCTGTGGAAACTTGACCTCAGTGTAACTGAAGCT
GTTGTTGCTGGAATTGCTAAAGCTTGTGGAAGGCTGGATGTGCTCTCCTTGGAGGTGAAACAGCAGAAATGCCT
GACATGTATCCCCCTGGAGAGTATGACCTAGCTGGGTTTGCCGTTGGTGCCATGGAGCGAGATCAGAACTCCCT
CACCTGGAAGAATCACTGAGGGTGATGTTGTTGTTGGAATAGCTTCATCTGGTCTTCATAGCAATGGATTTAGC
CTTGTGAGGAAAATCGTTGCAAAATCTTCCCTCCAGTACTCCTCTCCAGCACCTGATGGTTGTGGTGACCAGACT
TTAGGGGACTTACTTCTCACGCCTACCAGAATCTACAGCCATTCACTGTTACCTGTCTACGTTTCAGGACATGTC
AAAGCCTTTGCCATATTACTGGTGGAGGATTACTAGAGAACATCCCCAGAGTCCTCCCTGAGAACTTGGGGTA
GATTTAGATGCCCAGACCTGGAGGATCCCCAGGGTTTTCTCATGGTTGCAGCAGGAAGGACACCTCTCTGAGGAA
GAGATGGCCAGAACATTTAACTGTGGGGTTGGCGCTGTCCTTGTGGTATCAAAGGAGCAGACAGAGCAGATTCTG
AGGGATATCCAGCAGCACAAGGAAGAAGCCTGGGTGATTGGCAGTGTGGTTGCACGAGCTGAAGGTTCCCCACGT
GTGAAAGTCAAGAATCTGATTGAAAGCATGCAAAATAAATGGGTGAGTGTGAAGAATGGCTCCCTGACAAATCAT
TTCTCTTTTGAAAAAAAAGGCCAGAGTGGCTGTCTTAATATCTGGAACAGGATCGAACCTGCAAGCACTTATA
GACAGTACTCGGGAACCAAATAGCTCTGCACAAATTGATATTGTTATCTCCAACAAAGCCGAGTAGCTGGGTTA
GATAAAGCGGAAAGAGCTGGTATTCCCACTAGAGTAATTAATCATAACTGTATAAAAATCGTGTAGAATTTGAC
AGTGCAATTGACCTAGTCCTTGAAGAGTTCTCCATAGACATAGTCTGTCTTGCAGGATTTCATGAGAATTTCTTCT
GGCCCCCTTTGTCCAAAAGTGAATGGAAAAATGCTCAATATCCACCCATCCTTGCTCCCTTCTTTTAAAGGGTTCA
AATGCCCATGAGCAAGCCCTGGAAACCGGAGTCACAGTTACTGGGTGCACTGTACACTTTGTAGCTGAAGATGTG
GATGCTGGACAGATTATTTTGCAAGAAGCTGTTCCCGTGAAGAGGGGTGATACTGTGCGCAACTCTTTCTGAAAGA
GTAAAATTAGCAGAACATAAAATATTTCTGTCAGCCCTTCAGCTGGTGGCCAGTGGAACTGTACAGCTTGGAGAA
AATGGCAAGATCTGTTGGGTTAAAGAGGAATGA

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FIGURE 976

MAARVLIIGSGGREHTLAWKLAQSHHVQVLVAPGNAGTACSEKISNTAISISDHTALAQFCKEKKIEFVVVGPE
APLAAGIVGNLRSAGVQCFGPTAEAAQLESSKRFAKEFMDRHGIPTAQWKAF TKPEEACSFILSADFPALVVKAS
GLAAGKGVIVAKSKEEACKAVQEIMQEKAFGAAGETIVIEELLDGEEVSCLCFTDGTKTVAPMPPAQDHKRLLEGD
GGPNTGGMGAYCPAPQVSNDLLKIKD TVLQRTVDGMQOEGTPYTGILYAGIMLTKN GPKVLEFNCRFGDPECQV
LEKSDLYEVIQSTLDGLLCTSLPVWLENHTALTVMASKGYPGDYTKGVEITGFPEAQALGLEVFHAGTALK
VTHGGRVLAVTAIRENLISALEEAKKGLAAIKFEGAIYRKDVGFRAIAFLQQPRSLTYKESGVDIAAGNML
IOP LAKATSRSGCKVDLGGFAGLFDLKAAGFKDPLLASGTDGVGTKLKIAQLCNKHDTIGQDLVAMCVNDIL
AQGAEP LFFLDYFSCGKLDLSVTEAVVAGIAKACGKAGCALLGGETAEMPDMYPPGEYDLAGFAVGAMERDQKLP
PITEGDVVVGIASSGLHSNGFSLVRKIVAKSSLQYSSPAPDGCQDQTLGDLLLTPTRIYSHSLLPVLRSGHV
AHITGGGLENIPRVLPEKLGVLDLDAQTWIRIPRVSWLQQEGHLSEEEMARTFNCGVGAVLVVSKEQTEQIL
QHKEEAWVIGSVVARAEGSPRVKVKNLIESMQINGSVLKNGSLTNHFSFEKKKARVAVLISGTGSNLQALI
REPNSSAQIDIVISNKA AVAGLDKAERAGIPTRVINHKLYKNRVEFDS AIDL VLEEF SIDIVCLAGFMRILS
VQKWNGKMLNIHPSLLPSFKGSNAHEQALETGVTVTGCTVHFVAEDVDAGQIILQEAVPVKRGDTVATLSE
LAEHKIFPAALQLVASGTVQLGENGKICWVKEE

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FIGURE 977A

TGCCATGCTGCTGCACGGACAGGATGTGATCACTGTGTCCAATGGAGGCCGAATCATGCGTTTCTGGGAGACTAA
CATCGGGGGCCTGAACTGGGAGATAACCCTGGACAGTGGCAGTTTCCAGGCACCTTGGGCTGGTTGGCCTGCAGGA
GTCTGTAAGGTACATCGCAGTCCTGAAGAAGACTACACTTGGCCTCCATCACCTCTCCAGTGGGCACCTCAAGTG
GGTGGAAACATCTCCCAGAAAGTGACAGCATCCACTACCAGATGGTGTATTCTTACGGCTCTGGGGTGGTGTGGGC
CCTCGGAGTTGTTCCCTTCAGCCATGTGAACATTGTCAAGTTTAATGTGGAAGATGGAGAGATTGTTACAGAGGT
TAGGGTTTTCAACTCCGTGGCTGCAGCACCTGTCTGGAGCCTGTGGTGTGGTGGATGAGGCTGTCTGGTGTGTCC
TGACCCGAGCTCACGTTCCCTCCAAACTTTGGCTCTGGAGACGGAATGGGAGTTGAGACAGATCCCACTGCAGTC
TCTCGACTTAGAATTTGGAAGTGGATTCCAACCCCGGGTCTGCCTACCCAGCCCAACCCAGTGGACGCTTCCCG
GGCCAGTTTCTTCTGCAGTTGTCCCCAAGCCACTATGCTCTGCTGCAGTACCATTATGGAACGCTGAGTTTGCT
TAAAACTTCCCACAGACTGCCCTAGTGAGCTTTGCCACCCTGGGGAGAAGACGGTGGCTGCAGTCATGGCCTG
TCGGAATGAAGTGCAGAAAAGTAGCAGTTCTGAAGATGGGTCAATGGGGAGCTTTTCGGAGAAGTCTAGTTCAAA
GGACTCTCTGGCTTGCTTCAATCAGACCTACACCATTAACTATACCTCGTGGAGACAGGTCCGGCGCTGTGGA
CACCACGATAACATTTAGCCTGGAACAGAGCGGCACTCGGCCTGAGCGGCTGTATATCCAGGTGTTCTTGAAGAA
GGATGACTCAGTGGGCTACCGGGCTTTGGTGCAGACAGAGGATCATCTGCTACTTTTTCTGCAGCAGTTGGCAGG
GAAGGTGGTGTGTGGAGCCGTGAGGAGTCCCTGGCAGAAGTGGTGTGCTAGAGATGGTGGACCTCCCCCTGAC
TGGGGCACAGGCCGAGCTGGAAGGAGAATTTGGCAAAAAGGCAGATGGCTTGCTGGGGATGTTCTTGAACGCCT
CTCGTCTCAGCTTATCCTGTGCAAGCATGGACTTCCCACCTCTGGAAAATGTTTTATGATGCTCGGAAGCCCCG
GAGTCAGATTAAGAATGAGATCAACATTGACACCCTGGCCAGAGATGAATTCACCTCCAGAAGATGATGGTGTAT
GGTAACAGCCTCAGGCAAGCTTTTTGGCATTGAGAGCAGCTCTGGCACCATCCTGTGGAAACAGTATCTACCCAA
TGTCAGCCAGACTCCTCCTTTAACTGATGGTCCAGAGAACTACTGCTCATTCCCCCATCCCCACAGTGCAC
CCTGCTGGTGAAGGACAAGGAGTCGGGAATGAGTTCTCTGTATGTCTTCAATCCCATTTTTGGGAAGTGGAGTCA
GGTAGCTCCCCCAGTGCTGAAGCGCCCCATCTTGACAGTCCTTGCTTCTCCAGTCATGGATCAAGACTACGCCAA
GGTGTGTGCTGTTGATAGATGATGAATACAAGGTACAGCTTTTCCAGCCACTCGGAATGTCTTGGACAGCTACA
TGAGCTTGCCCCCTTCCATCTTCTTCTATTTGGTGGATGCAGAGCAGGGACGGCTGTGTGGATATCGGCTTCGAAA
GGATCTCACCCTGAGCTGAGTTGGGAGCTGACCATTCCCCCAGAAGTACAGCGGATCGTCAAGGTGAAGGGGAA
ACGCAGCAGTGAGCACGTTTCAATCCCAGGGCCGTGTGATGGGGGACCGCAGTGTGCTCTACAAGAGCCTGAACCC
CAACCTGCTGGCCGTGGTGACAGAGAGCACAGACGCGCACCATGAGCGCACCTTTATTGGCATCTTCTTCATTGA
TGGCGTCACTGGGCGTATCATTCACTCCTCTGTGTCAGAAGAAAGCCAAAGGCCCTGTCCATATCGTGCATTGAGA
GAACTGGGTGGTGTACCAGTACTGGAACACCAAGGCTCGGCGCAACGAGTTTACCGTACTGGAGCTCTATGAGGG
CACTGAGCAATACAACGCCACCGCCTTCAGCTCCCTGGACCGCCCCCAGCTGCCCCAGGTCTCCAGCAGTCCTA
TATCTTCCCGTCTCCATCAGTGCCATGGAGGCCACCATCACCGAACGGGGCATCACCAGCCGACACCTGCTGAT
TGGACTACCTTCTGGAGCAATCTTTCCCTTCCTAAGGCTTTGCTGGATCCCCGCGCCCCGAGATCCCAACAGA
ACAAAGCAGAGAGGAGAATTAATCCCGTATTCTCCAGATGTACAGATACACGCAGAGCGATTCACTAATAA
CCAGACAGTTTCTCGAATGCGAGGTATCTACACAGCTCCCTCGGGTCTGGAGTCCACTTGTGTTGGTGTGGCCTA
TGGTTTGGACATTTACCAAACCTCGAGTCTACCCATCCAAGCAGTTTGACGTTCTGAAGGATGACTATGACTACGT
GTTAATCAGCAGCGTCTCTTTGGCCTGGTTTTTGGCCACCATGATCACTAAGAGACTGGCACAGGTGAAGCTCCT
GAATCGGGCCTGGCGATTAAGAACAAGACTGTGCCTAAAAGTGGAGAGCCAGGGGAGTGTGGGTGAGATAAGCA
GCTACAGCTGCAGTTTGGTGGATTGGTGGAGTATGTGTGTGTGTGTCAGTGTCTAGCTAAGAACTGTAGGGAAGATG
GATGACCTTCACGCAGAACTCCTTTTGGGATATACATGATGCAGAAAGGATCCTACATGGAGAGAGACAGAACTC
TCTCAGCTGACACTCTCAGAGATTCCCTGATGGGCTTTCTCTTGAAGTCCAAGGCGTCTGCAATTGTTTCTTTCT
TTGCCCATCCATGAATGTTCTGTTTTGTTTTTTTTTAATAAGAATTCCGGCTGATTTTTGTGAGGCCTGTTTAAAT
TGACTTTACTTTGCCTTTTGTGTTTCTCAATTTTATCTAGAAATCTTTCTGACTTTTCCATCTCTTGCTTCAAA
GTAAGAGGGGAACTCTCCTTGCCGACTCCACCTTATAGGTACATTTGGTGTGTTTGCAGTGGGAAGAAATAGGATC
CATCCTTAGCTGAGGCTTGAGGACTGATCCAGCCTCTCATGGCTTCCCTCCAAAGTAACTTAGGGTTGAGGGATC
TATAATGTGATGTCAAACTTACTTTAAACCTCTAGTTTCGTGCTGTCAATTTATTAGGCTGGGCCACCAAATCTTT
GTTTCAATTTATCAGAAGCCAAGTGCATACTAGCGTCTTGTGTTGTTGCCCATTGCCTATACTTTTACCTGAGAT
GTGTGAGTTGGGGCCTTTTAAAACTACTGAATTGTCTGAGCCTTGAAGACATTTCCAGGGAGAAGAGATAATCT
CTCATTTCACCCACAGGCTGGTCTAATCATAACCTAGTTAAAGATGTCCTTGTTTAAAGAACCCATTATTTATTT

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FIGURE 977B

TTAGTTTTTAATATAAAATTAACATGTGGGTCATTATATTTCTCCTTAAATGAGGAAATTTTAAATTTTATTGATC
TAACCTTTGAAGCTTTAAAAAAGGAGAAAGAGGGTAGGGGTGGGAACTGGCATACTGTGTGTATAGCACTGCCG
ATTGGCTAGGCCACTGTGTCTCTGCTACAAATTAAGAAATCCTAAAAGTTTTCTTGGTCATAGAGTTGGGGAA
TGACAGAATTTTTCTTTGTTGTGAAATGTATGTACAGAGTAGACCATCTCTAGCCCTGTGGTGAAAGAGGTACAC
TCGAATGTTTGCATAAAGCAAGTGACAAATGACACTGTTTAAAGTCCTCTTTGTGTCTTAGAAGATCATTITGAG
GCTATTTTACATTAGAGGGGATAAAAGCAGTGAAGACATGGAGTAAGTGTATTTTATTTTAGTAAGGAAAGGTC
AGTTTAATCATATATGGGTTGGTTAGGTTATCTAAAATTTGTTCATCTTTCTATGGTCATATGCTGATGGTAGAT
TATGGCAGAGAAGGAAGAGGAAATGACAACCATTTTATTAATTGTTCAGTTTGTATTTGAGTGACTGAATGTCTAA
GAATCTCCAGAAAAAACAGGCATCTATCATCTGACCCAAGGCATATTTTAAACATAACCTGGGAGAAGAGAGTT
AAGTACAAGTTAAAAAAATTTCTGCCCTAGTTTTGAGAAAGCCTGGCTGGAATTTCTGACTGTCTTACATACATAT
GGTCAAGGTTAGCCTGCAAGATTCTAGTTTTTATTTACCAGTGTGCCAGAATCTGAAACAAGCTACTGGGAGGGA
AGGTATTTGTCTTTAGTAAAATTCCTGTATTTTACAGCTGTAATCAAAGTTACCTCAAAGCAGGTGCTTTTTTTT
TTTTTGAGACCCTGGCTCAAAAACAAAAACAAAACTAGTTTGTTTTAGTATTCATTAATTACGTATATGAGCAC
TGGTAGTCTAGTGTGTTCTTGTATACAGTGTCTTAAATGAGATGATGCTATTTAATTTCTGTTACTTGTGTT
TTTCAACTAATGGATCTTTTAAAGTTTTTTATTTAAATTTTTTGTGGGTACATATTAGGTACATATACTTATGGG
GTACATGAGATGTTTTTATAAAGGCTCAGCTAATGTATCTTGAATATCATGTATTCATAAAGATGACTGAAATAG
TTTCTGGAACAAAGTCTGATAGAAAAAATACTCAATTCCTAATTTAAGTGTAGAGACTTTAATGTAAGCTATCT
AATCTGAAC TAGTTTCATTATTTGTGTGTGGGTACATGTTATGTGCTCCGTAAGGCATCTTTCAATTTGAAAAT
TCATAATTGTAATTTCACTGCCTTTATAAATTGCTTTTTTTTGGAGGCAGGGTCTCTGTCACCCAGGCTGGAGAG
CAGTGGCACAGTCATAGCTCACTGCAGCCTCGAACACCTGGGCTGAAGTGATCCTCCCTCCTTAGCCTCCCAAAG
TGCCGGGATTACAGGCATGAGCTACTGCACCTGGCCCATAAATTGTCATACTTTTAAAGAGCCTATTACACAAAG
TATCATCAGAATCATCCCAAGACTCATTTCTGATTCTTAATTTTAAATTTTGTCTTTAGGCGAGGCATGGT
GGCTCAAGCCTATGGTCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCATTGAGGTGAGGAGTTGGGACCAG
CCTGGCCAACATGGTGAAACCTGAAACCCCATCTCTACCAAAAAATGAAAAATTTAGCCAGGTGTGGTGGTGC
ATGCCTGTAATCCCAGCCTCCCGAGTAGCTGGGGCTCAGGCGTGCGCCACCATGCCCCGCTAATTTTGTATATT
TATGGAATGCCAAGAGATAGTTCAATCTGCCTCTCTGGCAAGCCATGGACACCAGGTCTGACAACTCTCTTAC
TCCTTAAGACAAATGCTCACCTGATCAATATGGGGAAATAAGCTGCATGGTACCATAATTTCTATTCTAAAAGG
AAAAGTATCTCTTTGGTATTGCTTTGGAAAACATTCTTTATACTATCTTGCTATTTAAAAATTGACAATTATCC
TTCCATAATTAAACAGGTAGACAAC

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FIGURE 978

AMLLHGQDVITVSNGGRIMRSWETNIGGLNWEITLDSGSFQALGLVGLQESVRYIAVLKKTTLALHHLSSGHLKW
VEHLPESDSIHYQMVSYSYSGSVVWALGVVPF SHVNIVKFNVEDGEIVQVRVSTPWLQHLSGACGVVDEAVLVCP
DPSSRSLQTLALETEWELRQIPLQSLDLEFGSGFQPRVLPTQPNPVDASRAQFFLHLSPSHYALLQYHYGTLSLL
KNFPQTALVSFATTGEKTVAAVMACRNEVQKSSSSEDGSMGSFSEKSSSKDSLACFNQTYTINLYLVETGRRLD
TTITFSLEQSGTRPERLYIQVFLKKDDSVGYRALVQTEDHLLLFLQQLAGKVVLWSREESLAEVVCLEMVDLPLT
GAQAELEGEFGKKADGLLGMFLKRLSSQLILLQAWTSHLWKMFYDARKPRSQIKNEINIDTLARDEFNLQKMMVM
VTASGKLFGIESSSGTILWKQYLPNVKPDSSF KLMVQRTTAHFPHPPQCTLLVKDKESGMSSLYVFNPIFGKWSQ
VAPPVLKRPILQSLLLPVMDQDYAKVLLLIDDEYKVTAFPATRNVLRLHELAPSIFFYLVDAEQGRLCGYRLRK
DLTTELSWELTIPPEVQRIVKVKGRSSEHVHSQGRVMGDRSVLYKSLNPNLLAVVTESTDAHHERTFIGIFLID
GVTGRIIHSSVQKKAKGPVHIVHSENWVVYQYWNTKARRNEFTVLELYEGTEQYNATAFSSLDRLPQLPQVLQOSY
IFPSSISAMEATITERGITSRHLLIGLPSGAILSLPKALLDPRRPEIPTEQSREENLIPYSPDVQIHAERFINYN
QTVSRMRGIYTAPSGLESTCLVVAYGLDIYQTRVYPSKQFDVLKDDYDYVLISSVLFGLVFATMITKRLAQVKLL
NRAWR

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FIGURE 980

MGSSVLPFCVVCVTSPSLGGRCIQGRFASHSKFWGFGGRKTASFGAVGETPPDQEPQKETEPATSSHARPWARVIGL
RIWPQPN

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FIGURE 981

CGGGCTCAGTGCGTGAGGTTGGCGCGGCGCAGTCTTCCTGCTTTGGCGTTGTCTCTCAGGCCATCTCCCCGGTTG
TTGTGCACAGCCACGAAACAAAAGAACAGTGGCCAGAACCTGGAAGAGGACATGGGTCAGAGTGAACAGAAGGCA
GATCCTCCTGCTACAGAGAAGACCTCCTGGAGAGAAGGTCAAGTTGGAGGAACAGCTGAAGGAGACTGTGGAA
AAATATAAACGAGCTTTGGCAGACACTGAGAACTTACGGCAGAGGAGCCAGAAATTGGTGGAGGAGGCAAAATTA
GGCATTCAAGCCTTCTGCAAGGACTTGTGGAGGTGGCAGACGTTCTGGAGAAGGCAACACAGTGTGTTCCA
AAGAAATTAAAGACGATAACCTCACCTGAAGAACCTCTATGAGGGGCTGGTCATGACTGAAGTCCAGATC
AAGGTGTTACAAAGCATGGCTTGCTCAAGTTGAACCCTGTCGGAGCCAAGTTCGACCCTTATGAACATGAG
CTTGTTCACACACCGGTTGAGGGGAAGGAGCCAGGCACAGTGGCCCTAGTTAGCAAAGTGGGGTACAAGCTG
TGGGCGCACTCTGAGACCCGCCCTGGTGGGGGTGGTGAAGGAAGCTTAGCTG

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FIGURE 982

AGCGGGCTGGGTGCGTGCGCGGCGACTGCGACGGGCAGTGGCAGTCATGCGGGCTCAGTGCGTGAGGTTGGCGCG
GCGCAGTCTTCTGCTTTGGCGTTGTCTCTCAGGCCATCTCCCCGTTGTTGTGCACAGCCACGAAACAAAAGAA
CAGTGGCCAGAACCTGGAAGAGGACATGGGTGAGAGTGAACAGAGGCAGATCCTCCTGCTACAGAGAAGACCCT
CCTGGAAGAGAAGGTCAAGTTGGAGGAACAGCTGAAGGAGACTGTGGAAAAATATAAACGAGCTTTGGCAGACAC
TGAGAACTTACGGCAGAGGAGCCAGAAATTGGTGGAGGAGGCAAAATTATACGGCATTCAAGCCTTCTGCAAGGA
CTTGTTGGAGGTGGCAGACGTTCTGGAGAAGGCAACACAGTGTGTTCCAAAAGAAGAAATTAAAGACGATAACCC
TCACCTGAAGAACCTCTATGAGGGGCTGGTCATGACTGAAGTCCAGATCCAGAAGGTGTTACAAAAGCATGGCTT
GCTCAAGTTGAACCCTGTCGGAGCCAAGTTCGACCCTTATGAACATGAGGCCTTGTTCCACACACCGGTTGAGGG
GAAGGAGCCAGGCACAGTGGCCCTAGTTAGCAAAGTGGGGTACAAGCTGCATGGGCGCACTCTGAGACCCGCCCT
GGTGGGGGTGGTGAAGGAAGCTTAGCTGCTGTTGATGGGGTGGGTGTTTTTAAACTCACTTGATGTAACCTCTCAA
GGCTGGTTTCAATTGTTTCTCATCTATGAGTACGTGTGACCTTTTCCCAAACCTTATTGGAAACCTTAAGTAACCAG
TGGCTAAACAGAAAAGCCGGTTGCCCAACTGCATTAATGAACCTCTAATTCGGGAGTCTGTTCCCTTTTAGTGCCA
CGCGTTGAATAGTTCCACATACTTTCAGAAGAGCTCAGCAGGGCCCTGCCTGGTCTCCCGAGCATCATGAGTAAC
GTGCTGCTCAGACTCTGCTGACACCAAAGTATTTTAAACAAATAAAAGGTCTTGGGGAATTCTGTTTGGCTACC
TGGGCACGCCAGTCTGCACCATGTGTCCCTGCGGCGCATGAGTGACTGGCGTATTTAGCCCGTCACATTTTATT
GCTGAAGGAAAGGCAAGAGAGTTGAAACATTTTCTTACTTAAAAAAATGATCTTTGTGAAGAACATAGTGAGT
TCGTTTGTCTTCAGTCAACAGCGGCTGAAACTGACCACTGAGAAATGGGTGTGGGCACTGACAGTTCTCCCCAT
TATTTGGCCAGGAATTGAGCTTGGCTTGGCAAAGTTCCTTTTACCCTGTTCTGTTTCTTAAATGCAGACATATT
TAAATCATATTCAACTAGTTACTAATGACCTCAAGTTGTATTCCCTGGCAAAATGGACTTTCTCAAATAGGACT
GCACGCTTGGTGTACTTTAAATGTTAATGTTTAAATTTTATTTAAGAGGATTAAAGCCCTAATGTTTA
TTTTCTACAAAAAAAAAAAAAAAAA

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FIGURE 983

MAAQCVRLLARRSLPALALSLRPSRLLCTATKQKNSGQNL EEDMGQSEQKADPPATEKTLLEEKVKLEEQLKETV
EKYKRALADTENLRQRSQKLV EEA KLYGIQAFCKDLLEVADVLEKATQCV PKEEIKDDNPHLKNLYEGLVMTEVQ
IQKVFTKHGLLKLNPNVGA KFD PYEHEALFHTPVEGKEPGTVALVSKVGYKLHGRTL R PALVG VVKEA

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FIGURE 984

GGGGGAGAGGGGGCTCAAGGCGAGCGCGCCGGGCAGTTGCGGGCGCGTGGCTGCTGAGGTTGGCGGCGGTGCCGC
GCGCCCGACGGGCGGGTGGTTGCGGGGCCCTCCCGCCTCGACCCGGGCTGGGGGCAGCCGTGGCGGCGCCGGGGGA
CCGCAAGGGGCGGAGGAAAGGAGGGGGCCGGTCCCGGCACGCAGAGGAGCAGCCGACCATGCCCCGAGACAACAT
GGCCTCCTTGATCCAACGGATCGCCCGCCAGGCTTGCTCACCCTCCGGGGCAGCTGGGGCGGCGCGCGCTTC
CGATCGCGACGCGGCTTCTGGCGCGGAGGCGCCGATCGAGCCGGGCTTCCCGAGAACCTGAGCAAGCTGAAGAG
CCTCCTGACCCAGCTCCGCGCCGAGGACTTGAACATCGCCCCGCGCAAGGCCACACTGCAGCCGCTGCCGCCAA
CCTGCCGCCAGTCACCTACATGCACATCTACGAGACGGACGGCTTCAGCCTGGGCGTGTTCCTGCTCAAGAGCGG
CACGTCCATCCCCTGCACGACCACCGGGCATGCACGGCATGCTCAAGGTGCTGTACGGCACCCTGCGCATCAG
CTGCATGGACAAGCTAGACGCGGGCGGGCGGGCAACGGCCGCGGGCCTTGCCGCCCGAGCAGCAGTTCGAGCCGCC
GCTGCAGCCCCGGGAGCGAGAAGCCGTGCGGCCGGGCGTGTGCGTTGCGGGCCGAGTACACCGAGGCCAGCGG
CCCCTGCATCCTCACACCGCACCGGGACAACCTGCACCAGATCGACGCCGTGGAAGGGCCTGCCGCCCTTCTGGA
CATCCTGGCCCCGCCCTACGACCCGGACGATGGCCGGGACTGCCACTATTACCGGGTGTGAGCCGGTCAGGCC
CAAGGAGGCCCTCCAGCTCGGCCTGTGACCTGCCTCGAGAGGTGTGGCTCCTGGAGACCCACAGGCCGATGACTT
CTGGTGCAGGGGAGAACCCTATCCAGGTCCCAAGGTCTTCCCTTGAAGCCACTGGCGCCAGGAGCGGTGGGCCG
AAGACGTGCCCTACCTTACCACAAGGGCTGTGTCTCTACCCCTAGCCTGGGCGTTGGATCTACTGGAATGAGCA
GCAGCCGCTTCTCGGCAGCCTTGGAAGCACGGGCGACTGGACAGCAGCCGCCGGGCACGGTTATGGGGGCGGG
GTGGGCGGGGAGGCTAGATTGTTTCTGGTACTGTCACTGCCACTGGGGCTTTGATTGGAGGAATGGGGCAGGG
GACTATCTGAAGCGCTTCCATCCTAAAGCCATAATGAAAATATCTTCTCTTCCCCATTCTATACAAAATACT
AAGTGGTTTTCTTGCTCCCACTCCCTACCCCTTAGTTAAATAGGGTTTATTTTCCACTCATGCCCTTATGCCTTT
TTTTCTTATAGTTTTTTAACTTATTGACTGTGCATGACCCAGTGGTTTGAATTGTTTTTAGTTCAAGTCATTGGT
AAAACTAGGTTTAAAGGAGATGAGCTACTGTTTAAAGTGAGCTGGCCTGCCTAATTAATTCCTTGTGAAAATAA
ATGATTTTTTTCAGTTTGGGGATCATTCTCACAACATAACTATGCATGTAGAGGACAAGATTTATTTTCTTTCCTC
CCTTTGCCAGTAGCCACATCTGGTTTACTCAGGCAGCATCTACTAAGAAATTCAGCACCTGCATATCTCTGTGA
CATGGTCACTTAGAGCTTATCTTCCCTATGAATCTCCAGATCTGTGAGTCGAGCAGATTTTCATGTTGCAGATTCA
CCTTTAATGCAAAGACTGTATTATCCTCACATGACTTTTTTTCTTGTCTTACTGTACCTTAAAGGTGATAGAGT
AATTCTGTATTTTCTAACGGGAAGATTCAAAGGAGCTGAATGTGTTATGCTTCCAAACAACCTGAATGTAAACAC
TCCTAGCCAGTTGTTGCATTCCCTATATTTATTTACTTCCAATATTTTACTGTAAAAGTAGGGAGAAATATTATG
TTGATAGTTGTTTCATATTCTCTCAGGAACCTTAATGTTCCCGACTCGGGTGATTCCAGCTGTGTTGCTGGCAGT
GTTGTCTCAACCCTCTCCCTAAAATGACTGAGCCCTGGGTTTCATCTAATGTGGTTTTCTTAGGAAGAGATAGAA
GGCACAGAAGATCACAGCTAGAGAATTGAGAATTAACATACTACTAGCCATTTTAGGGCACCAAACTTGGGAT
TAAACACTTCTACTTCCCACTCCCACTCCTGAAATGAAGTCTTGCTATCTGTGACTAGTTTTATTTTTGTGCT
TTTAATAGTCCGAGCAGTCTTACCTTGTTTACACATGTATTGACACCATTGCTTCAGGCCATGGAGCACTGTTT
CTCCCTTTTTTACTATTTATAGGATTCCGTTTTTTCACAAGACTTTAATAAAAAGAAATTGTAGAAATAAACAC
ATTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 985

MQPGFPENLSKLKSLLTQLRAEDLNIAPRKATLQFLPPNLPPVTYMHYETDGFSLGVFLLKSGTSLPLHDHPGM
HGMLKVLYGTVRISCMKLDAGGGQRPRALPPEQQFEPPLOPREREAVRPGVLRRAEYTEASGPCILTPHRDNL
HQIDAVEGPAAFLDILAPPYDPDDGRDCHYYRVLEPVRPKEASSACDLPREVLLETPOADDFWCEGEPYPGPK
VFP

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FIGURE 986

CCCTCTTCCGTGTGGGCCCTCCCTGTCCCCTCTCTGTACCTCACAGTAGTCGTTGCCGGTAGCGGGTGTGGGG
CGCGAGCAGCGCAGGGCGGCCTCTCCCCACCCCTACAGCCGGGCGGGCTCGGTCCCCCCTCTCCCTCCGC
TTCGCACTCCCGTCGGGTACGGGAAGGTCCAAGCCGTGCCGGGTGCCGAGGGCCGTCTGTGGCCCGCTCGCCA
CGGGTCCCAATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGTCCAAAGGCCGTGGCCCGG
CGGCTCAGCCCCATCATGCTGGGGAAACAACCTGGAAGGCATCTGGCACACATCCATAGTTGTGCACAAGGATGAG
TTCTTCTTCGGCAGTGGTGGTATCTCCAGCTGCCCCCGGGAGGGACATTGCTTGGGCTCCAGACTCTGTGGTT
GATGTGGGGAGTACAGAAGTACAGAAGAAATCTTTCTGGAGTACCTCTCTCCCTGGGGGAGTCCCTGTTCCGA
GGTGAGGCCTACAACCTCTTTGAACACAATTGTAACACCTTCAGCAACGAAGTGGCACAGTTCTTGACTGGGCGG
AAGATTCTTCTTACATCACAGACCTGCCCTCTGAAGTTCTCTCCACGCCCTTTGGACAGGCACCTTCGGCCCCCTC
CTGGACTCCATTAGATCCAGCCTCCAGGAGGGAGCTCCGTGGGCAGACCCAACGGCCAGAGCTAACAGGACTGC
CTGGGACCGCCCTGCCTCACCAGGGCTTTTTCCTTTTTAAACAAAACAAACCCTACCAGATTCTATTTTATAATT
TTACATCAGAGCTAACACCAGGGGACGGCTTTTTAAATTTCCAGGGAAGGAGACCGTCAGGCCGATGTAGAC
AATGCTGCTAAGAAACAGAAACAAAATGCCACCCCTTCTAATAGTATTATACTAATTTATTAAGGCTGTCTGTCT
GTGCGTTCACTTCGGATGCTGTTTCTAAGCGTCTCCACACTGGAGAAAGGGAGGGGCTTTGTTTAAACAGAAA
GCGAGTCACAGTTTGCGGGAGCCCCAACCTAGAACTCTTTCCAGAGAACTCACGCTCTACCCAAGTTGCCAAC
ACCTGTGGGACCCAGGTGAGTTTTAGAACATCCGTGACCCAGAAAGTTACTCTAGTGTTAAATGAACCAAAGGAT
TTGGTGATCATGGGACCGGTTTCAGGATGACTAACCTAACCTAAGTGAACCTTTAGCCACAACCCTCACCTTCC
CTCCCTTACCCCAAGCAAGGCCAGTGCTGGAGCAGCCATTGCCTCCGGATCAAGGGAGTAACAGCAAGTATCAGG
CCGGAGAAAACAGGATAAAGCCATTCTCTCTTCCACCTAGATGGATTGCCAATCTTCTGCCATCAATTTTGGGAA
ACCTGCCCTTTGTGCCCCGAGGCTGCCTTTCTCAGCATAGCTGACTTGTATAGTGGATGAGGTCTGGGCTGGA
GCAGTAGAAGCCAAGGCCTTTTTTCTGCAAGTAATGATGTAGGTTATTTGCAGTCTCTGTAACCACCATCCAGGC
CAGTACGCAGTATTTAGCTGGGGACCAAGGGATGGGATTCCCTACTCTAAGAAAATACCTTTATTTTAAATTATTA
TTATTTTTTGAGACGGAGTCTCGCTCTACCAACCAGGCTGGTGTGCAGTGGCATGATCCCGGGAGGCAGAGATTG
CGATGAGCCGAGATCGTACCAGTGCATCCAGCCTGGGCGACAGAGTGAGACTCCATCTCAAAAAATAAAATAA
TGAAGTGGAATCAAGGTGGCAAGAAAATTTAGAATCGTTTCTGATAGGGACTTTCCCTTATCCTAAATGTGTTTT
GAAGGCACACGTTATTTCCATTGTCTATTCTGACTTTAGAAAGGCAGGTTGGGGCATGAGTGGGCATTTTCTTAAT
GACTTGCTGCTAGGAGGTTATAGGCAGGGAACAGTCTGGGAGTCTCTAATCCAGAGAGACTTTTCAATTCCCTCT
CTTCACATGAACCTCCATTAGTTAGATTTTGGGAAAGTGAGCATGAAGAAGGGACTCAGAGCTGCCAGGTACCCG
AGTCTCAGGTCTGACATCCTTGGGCCCCCTTCTGCCACAACCTTCTTGCCACTTCACGGACTTGAATTATGTTGCTT
CTTCTGGAAGTCTGGCCTGCAGCACAGGCCTTTCTCTCCAAAAGCTGCTGCTCATTCTGGCCCCATCTGCT
GCTATCTTTGCCATCAGCCATCACAGTTTGGCATCATCAGAGTCTCAGCTAGAGGAGCTGTCTATTCTGCCTTAGT
GTTTGCCTGCGACCTGACCAGGGGCATGACCAGCTGGGATGTCAAGTGACATTTGGGAACTTGTAGAGGCCAAAT
GATTGAAAGTTTAAATTTCTTCTCAAGACCCACTGATTTGCCAGTGTGCATGGAAATAATAGATTAGAGCAGAACT
AGCAGGGACTGTTGTATAATCGTGATCTACTAGCAGAATTGGGCCCAAAGAGAAAGAATTTCTGAGGCTGGGTTT
CTTCTGGGAGGGTAGCAGGTTGGTCTTGCCAGTGCTCTGTTTCCCACCAAGTGTGTTCCCTTTTCCAGCTTGCC
TGGCCCGGCTCTGTCTTCCAGGGTCTGCTCCAGACCCCTCTGCCTGGGGTCTCCCTCCATCCAGGGGGTCTG
GGCATCACAGCTCCTTTTTTTTCTCTCTCTTCCAGATCCAGTTTTCAGCTGGTTTGTCTTCTTCCAGCAGGCA
CCCTTAGGCCAGGAGCAGCTCCCTGAGAGAATTTGAGTCACTCATTTCTTGAACAGCACCCCCCTTTATACT
AGCAGCCATTTGTCCATTGCCTGTGCCCTAGGGTTTGTGGGGAGAGAGCGAGGGATCACTGAGCAGTTTCCCA
GAGCTCCATGGGAAGGCAAGCTCTCCCTCCCAATGGGAGCCCCACTGTCACTAACTGTAACTCAGGCTCAGGCT
TCAACTGCCTACCCCCATCCTCATATTTCTGTCTGTCCAGCACCTCAGGAGCATTCTCATTGTGGCCGGCTAAC
TCCGCCTGGATGTGAACAGGCAAGCACAGTGGGAAATGAGTCACGTACTTGTATTGCACAGTGGACACCTCTAGA
GGTCCATTGGTTTAAAGGGATAGGGAAGGAGGAGGATGAGACCATCACCCCTCCAGAAGTAAATCTAGTATC
TGAGTTTTCTTATGCCCTTGAGTCAAATAAATACTGTCTAGTACGGAGGTGTTTGTGTTTTCTTCGGTGT
TTTTCTAATGCAATAAACTCATTCTGCCTGCTCG

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FIGURE 987

PLPCGPSLSPLCHLTVVVAGSGCGGASSAGRPLPHPYSPGPGSVPPSPSASHSRRVREGPSRCRVPEGRRGRRRH
GSQWSRRISIR

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FIGURE 989A

TTGCTGCGTCAACTGTGTTCCCTTTGGCCTGGCTGAGTTTGATACTGTGGGGATTTCAGTTTAGGCGCTGGCCCCGA
GGATATCCCAGCGGTGGTACTTCGGAGACACCTGTCTGCATCTGACTGAGCCGGCTCTCCTGGCCTCGCGCTGCA
CATTCTCTCCTGGCGGCGCGCCACCTGCAGTAGCGTTCGCCCGAACATGGCGACACGGAGCAGCAGGAGGGAGT
CGCGACTCCCGTTTCTATTACCCCTGGTTCGCACTGCTGCCGCGCGGAGCTCTCTGCGAAGTCTGGACGCAGAGGC
TGCACGGCGGCGAGCGCGCCCTTGCCCCAGGACCGGGGCTTCCTCGTGGTGCAGGGCGACCCGCGCGAGCTGCGGC
TGTGGGCGCGGGGATGCCAGGGGGCGAGCCGCGCGGACGAGAAGCCGCTCCGGAGGAAACGGAGCGCTGCCC
TGCAGCCCCGAGCCCATCAAGGTGTACGGACAGGTTAGTCTGAATGATTCCACAATCAGATGGTGGTGCCTGGG
CTGGAGAGAAAAGCAACGTGATCGTGGCCTTGCCCCGAGATAGCCTGGCATTGGCGAGGCCCAAGAGCAGTGATG
TGTACGTGTCTTACGACTATGGAAAATCATTCAAGAAAATTTAGACAAGTTAAACTTTGGCTTGGGAAATAGGA
GTGAAGCTGTTATCGCCAGTCTTACCACAGCCCTGCGGACAACAAGCGGTACATCTTTGCAGACGCTTATGCCC
AGTACCTCTGGATCAGTTTGACTTCTGCAACACTCTTCAAGGCTTTTCCATCCCATTTCGGGCAGCTGATCTCC
TCCTACACAGTAAGGCCTCCAACCTTCTCTTGGGCTTTGACAGGTCCCAACCCCAACAAGCAGCTGTGGAAGTCAG
ATGACTTTGGCCAGACCTGGATCATGATTAGGAACATGTCAAGTCCTTTTCTTGGGGAATTGATCCCTATGACA
AACCAAATACCATCTACATTGAACGACACGAACCTCTGGCTACTCCACTGTCTTCCGAAGTACAGATTTCTTCC
AGTCCCCGGGAAAACAGGAAGTGATCCTTGAGGAAGTGAGAGATTTTCAGCTTCGGGACAAGTACATGTTTGCTA
CAAAGGTGGTGCATCTCTTGGGCAGTGAACAGCAGTCTTCTGTCCAGCTCTGGGTCTCCTTTGGCCGGAAGCCCCA
TGAGAGCAGCCCCAGTTTGTCAAGACATCCTATTAATGAATATTACATCGCAGATGCCTCCGAGGACCAGGTGT
TTGTGTGTGTGTCAGCCACAGTAACAACCGCACCAATTTATACATCTCAGAGGCAGAGGGGCTGAAGTTCTCCCTGT
CCTTGGAGAACGTGCTCTATTACAGCCAGGAGGGGCCGCGCAGTGACACCTTGGTGAGGTATTTTGCAAATGAAC
CATTTGCTGACTTCCACCGAGTGGAAGGATTGCAAGGAGTCTACATTGCTACTCTGATTAATGGTTCTATGAATG
AGGAGAACATGAGATCGGTCTACCTTTTGACAAAGGGGGAACTGGGAGTTTCTTCAGGCTCCAGCCTTCACGG
GATATGGAGAGAAAATCAATTGTGAGCTTTCCCAGGGCTGTTCCCTTCATCTGGCTCAGCGCCTCAGTCAGCTCC
TCAACCTCCAGCTCCGGAGAATGCCATCCTGTCCAAGGAGTCGGCTCCAGGCCTCATCATCGCCACTGGCTCAG
TGGGAAAGAACTTGGCTAGCAAGACAAACGTGTACATCTCTAGCAGTGCTGGAGCCAGGTGGCGAGAGGCACTTC
CTGGACCTCACTACTACACATGGGGAGACCACGGCGGAATCATCACGGCCATTGCCCAGGGCATGGAACCAACG
AGCTAAAATACAGTACCAATGAAGGGGAGACCTGGAACCAATTCTCTCTGAGAAGCCAGTGTTTGTGTATG
GCCTCCTCAGAACCTGGGGAGAAGAGCACTGTCTTACCATCTTTGGCTCGAACAAAGAGAATGTCCACAGCT
GGCTGATCCTCCAGGTCAATGCCACGGATGCCTTGGGAGTTCCCTGCACAGAGAATGACTACAAGCTGTGGTCA
CATCTGATGAGCGGGGAATGAGTGTGTGCTGGGACACAAGACTGTTTTCAAACGGCGGACCCCCCATGCCACAT
GCTTCAATGGAGAGGACTTTGACAGGCCGGTGGTCTGTGTTCAACTGCTCCTGCACCCGGGAGGACTATGAGTGTG
ACTTCGGTTTTCAAGATGAGTGAAGATTTGTCAATTAGAGTTTGTGTTCCAGATCCGGAATTTTCTGGAAAGTCAT
ACTCCCTCCTGTGCCTTGCCCTGTGGTTCTACTTACAGGAGAACGAGAGGCTACCGGAAGATTTCTGGGGACA
CTTGTAGCGGAGGAGATGTTGAAGCGCGACTGGAAGGAGAGCTGGTCCCCTGTCCCCTGGCAGAAGAGAACGAGT
TCATTCTGTATGCTGTGAGGAAATCCATCTACCGCTATGACCTGGCCTCGGGAGCCACCGAGCAGTTGCCCTCTCA
CCGGGCTACGGGCAGCAGTGGCCCTGGACTTTGACTATGAGCACAACCTGTTTGTATTGGTCCGACCTGGCCTTGG
ACGTCATCCAGCGCCTCTGTTTGAATGGAAGCACAGGGCAAGAGGTGATCATCAATTCTGGCCTGGAGACAGTAG
AAGCTTTGGCTTTTGAACCCCTCAGCCAGCTGCTTTACTGGGTAGATGCAGGCTTCAAAAAGATTGAGGTAGCTA
ATCCAGATGGCGACTTCCGACTCACAATCGTCAATTCCTCTGTGCTTGATCGTCCCAGGGCTCTGGTCTCTGTGC
CCCAAGAGGGGGTGATGTTCTGGACAGACTGGGGAGACCTGAAGCCTGGGATTTATCGGAGCAATATGGATGGTT
CTGCTGCCTATCACCTGGTGTCTGAGGATGTGAAGTGGCCCAATGGCATCTCTGTGGACGACCAGTGGATTTACT
GGACGGATGCCTACCTGGAGTGATAGAGCGGATCACGTTAGTGGCCAGCAGCGCTCTGTCAATTCTGGACAACC
TCCCGCACCCCTATGCCATTGCTGTCTTTAAGAATGAAATCTACTGGGATGACTGGTCACAGCTCAGCATATTCC
GAGCTTCCAAATACAGTGGGTCCCAGATGGAGATTCTGGCAAACAGCTCACGGGGCTCATGGACATGAAGATTT
TCTACAAGGGGAAGAACACTGGAAGCAATGCCTGTGTGCCAGGCCATGCAGCCTGCTGTGCCTGCCCAAGGCCA
ACAACAGTAGAAGCTGCAGGTGTCCAGAGGATGTGTCCAGCAGTGTGCTTCCATCAGGGGACCTGATGTGTGACT
GCCCTCAGGGCTATCAGCTCAAGAACAATACCTGTGTCAAAGAAGAGAACACCTGTCTTCGCAACCAGTATCGCT
GCAGCAACGGGAACGTATCAACAGCATTGGTGGTGTGACTTTGACAACGACTGTGGAGACATGAGCGATGAGA
GAAACTGCCCTACCACCATCTGTGACCTGGACACCCAGTTTCGTTGCCAGGAGTCTGGGACTTGTATCCCACTGT

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FIGURE 989B

CCTATAAATGTGACCTTGAGGATGACTGTGGAGACAACAGTGATGAAAGTCATTGTGAAATGCACCAGTGCCGGA
GTGACGAGTACAACCTGCAGTTCCGGCATGTGCATCCGCTCCTCCTGGGTATGTGACGGGGACAACGACTGCAGGG
ACTGGTCTGTGAAGCCAACCTGTACCGCCATCTATCACACCTGTGAGGCCTCCAACCTCCAGTGCCGAAACGGGC
ACTGCATCCCCCAGCGGTGGGCGTGTGACGGGGATACGGACTGCCAGGATGGTTCCGATGAGGATCCAGTCAACT
GTGAGAAGAAGTGCAATGGATTCCGCTGCCCAAACGGCACTTGATCCCATCCAGCAAACATTGTGATGGTCTGC
GTGATTGCTCTGATGGCTCCGATGAACAGCACTGCGAGCCCCTCTGTACGCACTTCATGGACTTTGTGTGTAAGA
ACCGCCAGCAGTGCTGTCCACTCCATGGTCTGTGACGGAATCATCCAGTGCCGCGACGGGTCCGATGAGGATG
CGGCGTTTGCAGGATGCTCCCAAGATCCTGAGTTCCACAAGGTATGTGATGAGTTCGGTTTCCAGTGTGAGAATG
GAGTGTGCATCAGTTTGATTTGGAAGTGCGACGGGATGGATGATTGCGGCGATTATTCTGATGAAGCCAACCTGCG
AAAACCCACAGAAGCCCCAACTGCTCCCGCTACTTCCAGTTTCCGGTGTGAGAATGGCCACTGCATCCCCAACA
GATGGAAATGTGACAGGGAGAACGACTGTGGGGACTGGTCTGATGAGAAGGATTGTGGAGATTACATATTCTTC
CCTTCTCGACTCCTGGGCCCTCCACGTGTCTGCCCAATTACTACCGCTGCAGCAGTGGGACCTGCGTGATGGACA
CCTGGGTGTGCGACGGGTACCGAGATTGTGCAGATGGCTCTGACGAGGAAGCCTGCCCTTGCTTGCAAACGTCA
CTGCTGCCCTCCACTCCCACCAACTTGGGCGATGTGACCGATTTGAGTTCGAATGCCACCAACCGAAGACGTGTA
TTCCCAACTGGAAGCGCTGTGACGGCCACCAAGATTGCCAGGATGGCCGGGACGAGGCCAATTGCCCCACACACA
GCACCTTGACTTGATGAGCAGGGAGTTCCAGTGCGAGGACGGGGAGGCCTGCATTGTGCTCTCGGAGCGCTGCG
ACGGCTTCTGGACTGCTCGGACGAGAGCGATGAAAAGGCCTGCAGTGATGAGTTGACTGTGTACAAAGTACAGA
ATCTTCAGTGGACAGCTGACTTCTCTGGGGATGTGACTTTGACCTGGATGAGGCCCAAAAAATGCCCTCTGCAT
CTTGTTATATAATGTCTACTACAGGGTGGTTGGAGAGAGCATATGGAAGACTCTGGAGACCCACAGCAATAAGA
CAAACACTGTATTAAGTCTTGAAACCAGATACCACGTATCAGGTTAAAGTACAGGTTTCAAGTGTCTCAGCAAGG
CACACAACACCAATGACTTTGTGACCCTGAGGACCCCCAGAGGGATTGCCAGATGCCCTCGAAATCTCCAGCTGT
CACTCCCCAGGGAAGCAGAAGGTGTGATTGTAGGCCACTGGGCTCCTCCCATCCACACCCATGGCCTCATCCGTG
AGTACATTGTAGAATACAGCAGGAGTGGTTCCAAGATGTGGCCCTCCAGAGGGCTGCTAGTAACCTTTACAGAAA
TCAAGAACTTATTGGTCAACACTCTATACACCGTCAGAGTGGCTGCGGTGACTAGTCGTGGAATAGGAAACTGGA
GCGATTCTAAATCCATTACCACCATAAAAGGAAAAGTGATCCCACCACCAGATATCCACATTGACAGCTATGGTG
AAAATTATCTAAGCTTACCCTGACCATGGAGAGTGATATCAAGGTGAATGGCTATGTGGTGAACCTTTTCTGGG
CATTTGACACCCACAAGCAAGAGAGGAGAACTTTGAACTTCCGAGGAAGCATATTGTACACAAAGTTGGCAATC
TGACAGCTCATACATCTATGAGATTTCTGCCTGGGCCAAGACTGACTTGGGGGATAGCCCTCTGGCATTGAGC
ATGTTATGACCAGAGGGGTTGCCCCACCTGCACCTAGCCTCAAGGCCAAAGCCATCAACCAGACTGCAGTGGAAT
GTACCTGGACCGGCCCCCGGAATGTGGTTTATGGTATTTTCTATGCCACGTCCTTTCTTGACCTCTATCGCAACC
CGAAGAGCTTGACTACTTCACTCCACAACAAGACGGTCATTGTGAGTAAGGATGAGCAGTATTTGTTTCTGGTCC
GTGTAGTGGTACCCTACCAGGGGCCATCCTCTGACTACGTTGTAGTGAAGATGATCCCGGACAGCAGGCTTCCAC
CCCGTCACCTGCATGTGGTTCATACGGGCAAAACCTCCGTGGTTCATCAAGTGGGAATCACCGTATGACTCTCCTG
ACCAGGACTTGTGTATGCAATTGCAGTCAAAGATCTCATAAGAAAGACTGACAGGAGCTACAAAGTAAATCCC
GTAACAGCACTGTGGAATACACCCTTAACAAGTTGGAGCCTGGCGGGAATACCACATCATTGTCCAACCTGGGGA
ACATGAGCAAAGATTCCAGCATAAAAATTACCACAGTTTCATTATCAGCACCTGATGCCTTAAAAATCATAACAG
AAAATGATCATGTTCTTCTGTTTTGGAAAAGCCTGGCTTTAAAGGAAAAGCATTTTAAATGAAAGCAGGGGCTATG
AGATACACATGTTTGATAGTGCCATGAATATCACAGCTTACCTTGGGAATACTACTGACAATTTCTTTAAATTT
CCAACCTGAAGATGGGTCATAATTACAGTTTACCCTCCAAGCAAGATGCCTTTTTGGCAACCAGATCTGTGGGG
AGCCTGCCATCCTGCTGTACGATGAGCTGGGGTCTGGTGCAGATGCATCTGCAACGCAGGCTGCCAGATCTACGG
ATGTTGCTGCTGTGGTGGTGGCCATCTTATTCCGTGATACTGCTGAGCCTGGGGGTGGGGTTTGCCATCCTGTACA
CGAAGCACCGGAGGCTGCAGAGCAGCTTACCAGCCTTCGCCAACAGCCACTACAGCTCCAGGCTGGGGTCCGCAA
TCTTCTCCTCTGGGGATGACCTGGGGGAAGATGATGAAGATGCCCTATGATAACTGGATTTTCAAGATGACGTCC
CCATGGTGATAGCCTGGAAGAGCTTTCCTCACTAGAAACCAATGGTGTAAATATTTTATTTGATAAAGATAGTT
GATGGTTTATTTTAAAGATGCATTTGAGTTGCAATATGTTATTTTATATGGGCCAAAAACNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNGGAATGAATAAACTTTGTAGTAATCAACTGTGAACTTCAAACCAGGTTGATTTTA
GTAACCAATTGCTTTGATTTGACATTAATGTAGTCTTACAGGGCTGTGCTTGCTGGGCATGCTTTTACGCTGTG
GAGATAATTTCCGGTTCAGTAAATTGGCCAATCTTTTTATTTTTCTAAGACACAGAAATGTATTTAATAAAAACCT

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FIGURE 989C

CGAGAGAGTGATGGGTGGAACCCCTTCTCCTTGAAAGTGTGTACAGATATTCCATTTTGTGGATATAGTTTAT
AGGAAAGTGTGTGGATGTATTATGGCGGAAGGTTTCTTTATGTTATTTTGTAAATTTATTGGGACTCTGTGTAAG
GCCAGGCTTTAGTGGTCATTAGACACCACATGTGTTATGAGCCCTTACCCATAGGGTTGGGGGTGGGAAGAGAA
GCATATTTTTTTGCCATTCCGGAAGCAATCCATTTTTATTCACTTGTGTGTCATGTAATGGTCTTTGGCAGGAGA
GAGCACTGAGTCATTGCTGGAGTTCAGTTCAACAGAGCTGCAGCTTGGGAAGCCCTGTAAGCCACAGCTTCCTC
TCTTATATTAATTGATGGAATTTTACTGTATGTGCCTCTGTACAAGATGTAGCTTTGAGAGCTACAAAATGATAA
CACTGCTTTATTACACACTGGTTTCATTGTCAATTGCAAAAACCTTACCCTGGTTGTGGGGGAGAGTTCTAGATCTG
TGCCATGATCCATACACTGGCTAATAGAGTACATAATTTTTCCATTTTCCATTTTTTGTTTTTACTTACTACTGA
AGGATCTCAGATGTAAATATGTATTTGGTTTGAGATGGCCACTTATTGTCTTAAAAATCCATACTGATATAT
GCAGTCATTTTGAATTGGACAGTGCCTTCTCTTTTTTTTTCTCCTCTTCCATCTCCCTCACCCATGCCCCCA
CCCAATCTAAAGAGACAGTGTGTACATTCTCATAGAGATAGAGAAGATCTAAAAAGTTGAGACTACTCAATCCA
GTTAACAACAGCAGGAGCACTAGAGTTTGTTCATTTATTCTCTCTGTAAAAACAAGCTGTGCTTTTTTCTTCTGC
CTTTAAATGCCACCCGTGTATTCAAACCATGGCCACTTGATACTTATGTAGAATCCATCGTGGGCTGATGCAAG
CCCTTTATTTAGGCTTAGTGTGTGGGCACCAATGTCGAGCATCGTTGTGACTTGTGCTGTATGATTCTCACTGA
AGAATTTCTTTTCAGCCAAGAAGCAGTGAGGTCTGGGAATATTCCAAAGTCATGTCTCTGAATATGTGTCCTTGA
CGTGCAAGCTTTGTAAACCCCATCCCCGCTTAGGTGCGAGGCATCACCTTCTACAAGTGTTTAGTTTCTTTTA
ACCACAAGTATCATTCTTGGGTGATAATATAGTTTCTACTTAGGGATTGTTTAGAAAACAAAGAAAGAGCC
AATTAATTTTTTTAGTTTTTTGAAATTTTTATTTATATGTATACTTAGATGAGTATTTTAAGCTGTGACCTTTAG
TTTGCCATACGGGTAGGACTGTATTTTATGTTAACAACCTGGTGGTAATGATAAGCCTTCTTCTAGCGTATTTTCT
CTTCTTTCCGTGTCATTTTCTTAAGTTTTTTTTTTTTTAAAGACTGGAATTTTTTTGGCTTTATCTTGTCTTACCGT
AGAGATTTGTTCAAACTCTAAGCCCTACCACCTCCCCTTTAATAAGCTCTTTAAATAGTTGAATCATTAAACAAC
CTGGTGGGAGGCAAGTCATTTAATTGAACCACTAGGAAGTGATTTTCTTTTCTTTTCTGCCAACTTTTTGGTG
GCATTTGTAAAGCTGATATAAAAGGCTCTGAGATGTTATTTTCAGTTATTCCATAGGCAAGCCTTTTTACAGAG
CATATGCTCTCCAGTTGGCAGCTTGAGATATTTCCGAGCATCCGGTCTAGCTACCAGTGCCTCCCAATGCTTAGT
GCACAGTACTGTAGACTGGCCATCACCCCTCTCCTTGGAATGCCACTGTGCTGTTTGAAAAAAGCAGCCTTT
TAGGGCTAGAGTATTTTATATAAACAGAAAGAGCTAAGTTCCTGAAGACTAAGCTAGATAGCTGCAGCTATATGTA
AATTGTATATTTTTATGAACTTTTGAAGCACACACTCCTGTTTCCCTCTGTGTAGCTTTGTGGGGATTTCATGTA
TATATGCTGTCTGAAAGAATCCAGAGGTTGGAGTGCCAATAGAAAATGAAAACAAATGCCTTGTAACAGGCAG
CCTCTGAAGGTGACCACATAACTGTCTTCACTGTGACCAATCGGAGTCCCTGCTTGCTTGTAAGAAGGGGCTTT
TGTACCTTGTGGAGATGCCACCTCAGAAGTTCACACTGTGCAGGAAAAAGGTTTTATTCTCTCCTGGCATAACAT
TAGAATGTCAGATGCCTGCATCCATGTGGACCACGATGGGCCTCTAAAAATTGGTGGGCAGGGGGTTTTGCTTATG
AGTTTTCTCTGAAACCGATTTTACTCCTGGATGTATTGAATGCCCTTGAGCTTTATGAGATACGAGTCCACAT
GGATAAAATGTTAGAGAGTGGAGTTCTACAGAGGATTCCAGGAAGAGGCCATGTCTGTGTCAGTCCCTAGTTCCAGA
CAGGTGAGAAGCTCCAGGAACACTACTGGCTACCTTGACAAGCTGGGTAAATAGTTATCATTCTGGGTAACCTGGTTG
AAACTCTGACTTTTGGACAAGTAATCCTGGGGTCTGTCTTTGGTAGCATCACCAGGGATATTTGGGTGGGACA
GACAGAAGACACACAGCTGCCTGTTCTCTCCTGCCCATCATGTTTGGCCCACTAGATGAAGCTGTACTCAGCAAT
TTAGGGAATGTAACCCTTCTCAGAACTGGCCATTTTCAGGGGAAGCTTGGGAGAGCAATAGTATGGTGAGCCCT
TAGAGATGAGCGCTACTCCTTCTTGGCGAATGCTGCCTTCAGATGCTTACCAAGTGGTCACTGCATCTAGTAAG
ATTATATTTCCAGTACACTTCTTAGGGCAGAAACACCATCCTATCAGGTTTGGTCAGTCCCTTCTTCATGAAGG
GAGTCATGGGGAATTCCTGAAAATTTTCTTCTTCTGCAGACAGTTGGATGAGTCCCTTAGAGAAGGCATCCAGA
GACATAACTAACTGAATATCATCCCATATTGATTTTAGGAATTGACTCTAAACTCTGTGCAGAATCTTGTGTT
GGGATTGTATCTTGACATTCTGTTGTGTTATTTTTCTTAACTGGAGTGTGTGCTGCCTTTCAGGTACAATTTTT
GTGTAATAAAAAGCCAGTGCATTAAGTTTATATAGACTACTTTCTATGCAAGACTGAGATATGGAATAGATAGGAA
GAGATATGTACTGCTGGGTACATGGACAGTAAGTGTGTTTTAGATGGAGTACCAGCACCGAAAATGGGTTGAGG
GAGGATGGGTGTATGTATGTTTCTGCCCACTAATTTTGGAGCCATATTATGAATTAATCGTCACAGCCAAG
TAATAACCAAGAATGGTATGAGTTTCTATGTGTAATAGCTCAAAATGGAATAAGCATGAATGCTGGAGTGGACCAT
TATCCTCAAAATATTCTATGTCACTTCTCATTTAAAGACTCTTGTATGAATATTAGAACTTTAGGCAAAATCA
AAAGTATTTGCGGCAAAATAAAGGCCTATTCTACTCTTATTTAAAGTGAAACACTGTATACTTGTCTCTCCAA

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FIGURE 989D

AGCGAAATTAAGTATTTATAATTTCAATTGCCTCGATAAGTTTCCAAGTCACTGAAATCTGCTGAAGGTTTTACT
GTATTGTTGCACAACCTTTAAGATAATTTTGTCTCAATGTCAACTTTTTTCACTGAATAAAAAATTTAACTGGGTC
AAGAAAACACCTCTTTGAAAATCCACTGTCTCTGTGTGTCTCGAGCTGTTCTTTAGAGCGCAATAAAGATGGCTG
ACGCAGTCTCCAAACCCC

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FIGURE 990

AASVFPLAWLSLILWGFSLGAGPRISQRWYFGDTCLHLTEPALLASRCTFSPGGGATCSSVRPNMATRSSRRES
RLPFLFTLVALPPGALCEVWTQRLHGGSAPLPQDRGFLVVQGDPRELRLWARGDARGASRADEKPLRRKRSAA
QPEPIKVYQVSLNDSHNQM VVHWAGEKSNVIVALARDSLALARPKSSDVVVS YDYGKSFKKISDKLNFGLGNRS
EAVIAQFYHSPADNKRYIFADAYAQYLWITFDFCNTLQGF SIPFRAADLLLHASKASNLLLGFD RSHPNKQLWKSD
TWIMIQEHVKSFSWGIDPYDKPNTIYIERHEPSGYSTVFRSTDFQ SRENQEVILEEVRDFQLRDKYMFAT
LLGSEQQSSVQLWVSFGRKPMRAAQFVTRHPINEYYIADASEDQVFVCVSHSNNRTNLYISEAEG LKFSL
WVLYYSPGGAGSDTLVRYFANEFFADHRVEGLQGVYIATLINGSMNEENMRSVITFDKGGTWEFLQAPAF TG
YSEKINCELSQGCSLHLAQRSLQLLNLQLRRM PLSKESAPGLI IATGSVGKNLASKTNVYISSSAGARWREALP
MYTGWGDHGGIITAI AQGMETNELKYSTNEGETWKTFIFSEKPVFVYGLLTPG EKSTVFTIFGSNKENVHSW
VNATDALGVPC TENDYKLWSPSDERGNECLLGHKT VFKRRTPHATCFNGEDFDRPVVSNCSCTREDYEC D
MSEDLSLEVCVPDPEFSGKSYSPVPCPVGSTYRRTRGYRKISGDTCSGGDV EARLEGE LVPCLAEENE F
AVRKS IYRYDIASGATEQLPLTGLRAAVALDFDYEHNC LYWSD LALDVIQRLCLNGSTGQEV IINSGL ETVE
AFEP LSQLLYWVDAGFKKIEVANPDGDFRLTIVNSSVLDRPRALVLPVQEGVMFWTDWGD LKPGIYRSNM DGS
AAYHLVSE DVKWPNGISVDDQWIYWTDAYLECIERITFSGQQRSVILDNLPHPYAIAVFKNEIYWD DWSQLSIFR
ACKYSGS QMEILANQLTGLMDMKIFYKGKNTGSNACVPRPCSL LCLPKANN SRSCRPEDVSSSVLP SGDL MCD C
PQGYQLKNNTCVKEENTCLRNQYRCSNGNCINSIWWCDFDND CGDMSDERNCPTTICDLDTQFR CQESGTCIPLS
YKCDLEDDCGD NSDESHCEMHQCRSDEYNCSSGMCIRSSWVCDGDND CRDWSDEANCTAIYHTCEASN FQCRNGH
CIPQRWACDGD TDCQDGSDEDPVNCEKKCNGFRCPNGTCIPSSKHCDGLRDCSDGSDEQHCEPLCTHFMDFVCKN
RQQCLFHS MVCDGIIQCRDGSDEDAAFAGCSQDPEFHKV CDEFGFQCQNGVCISLIWKCDGMDDCGDYSDEANCE
NTEAPNCSRYFQFRCENGHCIPNRWKCDREND CGDWSDEKDCGDSHILPFSTPGPSTCLPNYYRCSSGTCVMDT
WVCDGYRDCADGSDEEACPLLANVTAASTPTQLGRCDRFEFECHQPKTCIPNWKRCDGHQDCQDGRDEANCP THS
TLTMSREFQCE DGEACIVLSERCDGFLDCSDESDEKACSD ELTVYKVQNLQWTADFSGDVTLTWMRPKKMP SAS
CVYNVYYRVVGESIWKTLETHSNKNTNTVLKVLKPD TTYQVKVQVQCLSKAHNTNDFVTLRTPEGLPDAPRNLQLS
LPREAEGVIVGHWAPP IHTHGLIREYIVEYSRSGSKM WASQRAASNFT EIKNLLVNTLYTVRVA AVTSRGIGNWS
DSKSITTIKGVIPPPDIHIDSYGENYLSFTLTMESDIK VNGYVVLFWAFDTHKQERRTLNFRGSILSHKVGNL
TAHTSYEISAWAKTDLGDSPLAFEHVMTRGVRPPAPSLKAKAINQTAVECTWTGPRNVVYGIFYATSFLDLYRNP
KSLTTS LHNKTVIVSKDEQYLFLVRVVVPYQGPSSDYVVVKMIPDSRLPPRHLHV VHTGKTSVVIKWESP YDSPD
QDLLYAI AVKDLIRKTD RSYKVKSRNSTVEYTLNKLEPGGKYHIIVQLGNMSKDSSIKITTVSL SAPDALKIITE
NDHVLLFWKSLALKEKHFNESRGY EIHMFDSAMNITAYLGNTTDNFFKISNLKMGHNYTFTVQARCLFGNQICGE
PAILLYDELGSGADASATQAARSTDVA AVVVPILFLILLSLGVGFAILYTKHRLQSSFTAFANSHYSSRLGSAI
FSSGDDLGEDDEDAPMITGFSDDVPMVIA

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FIGURE 991

CGGACGCGTGGGCGGCCGGCGCGCGGTGGGGCATGCGGGTTTCGCGGGGTGCGGGGCGCACGGCGGCGCCGAGCG
TGCGGCCGGAAGAAGCGGCGGTCTGAGCCCCAACTGGAGCCTGAGCCCGAGCCGGAGCCCCCTCCTCTGCACCT
CTCCTCTCAGCCACAGCACCGGCAGCGATTCTGGCGTCTCCGACAGCGAGGAGAGTGTGTTCTCAGGCCTGGAAG
ATTCCGGCAGTGACAGCAGTGAGGATGATGACGAAGGCGACGAGGAGGAGAGGACGGAGCCCTTGATGACGAGG
GCCACAGTGGGATTAATAAAGACCACTGAGGAGCAGGTGCAGGCCAGCACTCCTTGCCCGAGGACAGAGATGGCGA
GCGCCCGGATTGGGGATGAGTATGCGGAGGACAGCTCTGATGAGGAGGACATCCGGAACACGGTGGGCAACGTGC
CCTTGGAGTGGTACGATGACTTCCCCACGTGGGCTACGACCTGGATGGCAGGCGCATCTACAAGCCCCCTGCGGA
CCCGGGATGAGCTGGACCAGTTCTTGACAAGATGGACGATCCTGACTACTGGCGCACCGTGCAGGACCCGATGA
CAGGGCGGGACCTGAGACTGACGGATGAGCAGGTGGCCCTGGTGCGGCGGCTGCAGAGTGGCCAGTTTGGGGATG
TGGGCTTCAACCCCTATGAGCCGGCTGTGACTTCTTCAGCGGGGACGTCATGATCCACCCGGTGACCAACCGCC
CGGCCGACAAGCGCAGCTTCATCCCCCTCCCTGGTGGAGAAGGAGAAGGTCTCTCGCATGGTGCACGCCATCAAGA
TGGGCTGGATCCAGCCTCGCCGGCCCCGAGACCCACCCCACTTCTATGACCTGTGGGCCAGGAGGACCCCA
ACGCCGTGCTCGGGCGCCACAAGATGCACGTACCTGCTCCCAAGCTGGCCCTGCCAGGCCACGCCGAGTCGTACA
ACCCACCCCTGAATACCTGCTCAGCGAGGAGGAGCGCTTGGCGTGGGAACAGCAGGAGCCAGGCGAGAGGAAGC
TGAGCTTTTGGCCACGCAAGTTCCCGAGCCTGCGGGCCGTGCCTGCCTACGGACGCTTCATCCAGGAACGCTTCG
AGCGCTGCCTTGACCTGTACCTGTGCCCACGGCAGCGCAAGATGAGGGTGAATGTAGACCCTGAGGACCTCATCC
CCAAGCTGCCTCGGCCGAGGGACCTGCAGCCCTTCCCCACGTGCCAGGCCCTGGTCTACAGGGGCCACAGTGACC
TTGTCCGGTGCCTCAGTGTCTCTCCTGGGGGCCAGTGGCTGGTTTCAGGCTCTGACGACGGCTCCCTGCGGCTCT
GGGAGGTGGCCACTGCCCGCTGTGTGAGGACTGTTCCCGTGGGGGGCGTGGTGAAGAGTGTGGCCTGGAACCCCA
GCCCCGCTGTCTGCCTGGTGGCTGCAGCCGTGGAGGACTCGGTGCTGCTGCTGAACCCAGCTCTGGGGGACCGGC
TGGTGGCGGGCAGCACAGATCAGCTGTTGAGCGCCTTCGTCCCGCCTGAGGAGCCCCCTTGACGCCGGCCCCGT
GGCTGGAGGCCTCAGAGGAGGAGCGCCAAGTGGGCCTGCGGCTGCGCATCTGCCACGGGAAGCCAGTGACGCAGG
TGACCTGGCACGGGCGTGGGGACTACCTGGCCGTGGTGTGGCCACCCAAGGCCACACCCAGGTGCTGATTACCC
AGCTGAGCCGTGCGCGCAGCCAGAGTCCGTTCCGCCGACGCCACGGACAGGTGCAGCGAGTGGCCTTCCACCCTG
CCCGGCCCTTCTGTTGGTGGCGTCCCAGCGCAGCGTCCGCCTCTACCACCTGCTGCGCCAGGAGCTACCAAGA
AGCTGATGCCCAACTGCAAGTGGGTGTCCAGCCTGGCGGTGCACCCTGCAGGTGACAACGTATCTGTGGGAGCT
ACGATAGCAAGCTGGTGTGGTTTGACCTGGATCTTTCCACCAAGCCATACAGGATGCTGAGACACCACAAGAAGG
CTCTGCGGGCTGTGGCCTTCCACCCGCGGTACCCACTCTTTGCGTCAGGCTCGGACGACGGCAGTGTATCGTCT
GCCATGGCATGGTGTACAATGACCTTCTGCAGAACCCTTGTGGTGGCCGTCAAGGTGCTGAAGGGACACGTGC
TGACCCGAGATCTGGGAGTGTGGACGTCATCTTCCACCCACCCAGCCGTGGGTCTTCTCCTCGGGGGCAGACG
GGACTGTCCGCCTCTTACCTTAGCTGTTCTGCCTGCCTGGGGCTGGGGTGGTTCGTGCTGAAGTCAACAGAGCCTT
TACCCTGAAAAAAAAAAAAA

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FIGURE 992

MAGSRGAGRTAAPSVRPEKRRSEPELEPEPEPEPPLLCTSPLSHSTGSDSGVSDSEESVFSGLEDSGSDSSEDDDD
EGDEEGEDGALDDEGHSGIKKTTEEQVQASTPCPRTEMASARIGDEYAEDSSDEEDIRNTVGNVPLEWYDDFPHV
GYDLDGRIYKPLRTRDELQFLDKMDDPDYWRTVQDPMTGRDLRLTDEQVALVRRQLQSGQFGDVGFNPYEPADV
FFSGDVMIHPVTNRPADKRSFIPSLVEKEKVS RMVHAIKMGWIQPRRPRDPTPSFYDLWAQEDPNAVLGRHKMHV
PAPKLALPGHAESYNPPPEYLLSEEEERLAWEQQEPGERKLSFLPRKFPSLRAVPAYGRFIQERFERCLDLYLCPR
QRKMRVNVDPEDLIPKLPRPRDLQPFPTCQALVYRGHSDLVRCLSVSPGGQWLVS GSDDGSLRLWEVATARCVRT
VPVGGVVKSVAWNPSPAVCLVAAVEDSVLLLNPALGDRLVAGSTDQLLSAFVPPEEPPLQPARWLEASEEERQV
GLRLRICHGKPVQTQVTHGRGDYLAVVLATQGHTQVLIHQLSRRRSQSPFRRSHGQVQRVAFHPARPFLLVASQR
SVRLYHLLRQELTKKLPNCKWVSSLAVHPAGDNVICGSYDSKLVWFDLIDLSTKPYRMLRHHKKALRAVAFHPRY
PLFASGSDDGSVIVCHGMVYNDLLQNPLLVPVKVLKGHVLT RD LGVLDVIFHPTQPWWFSSGADGTVRLFT

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FIGURE 993A

CACTAGAATGTGAAGGATCTTCGCGGTTCTGGGTGCCAGAAAGGCGGCGACGCGGCGGATGACAACATTAGTG
CGCGACGCGCTCCTGGCCAGGCGGCGGCTGTAGTGTAGCTTTGGACGCCGAGTAGCCGCTGCCGGTAGCAAGC
CGACTGAGGGAAGGTGGGGTCCGCCCGGGCTGGTGGACCTCGGGGCCGAAAGTTCCCGCCCCGCTCGGGGGCTG
AGCCGGCAGTGCCTCCGCGGCCGCTGGGCAGCGCCCTTCGTCCAGGCTCGCGCCCCAGCTGCCGCCGACGACAGC
GGCCGAGAGAAGTTGGGGTCTGACTAGACGCTTACGGGGCCTCGGACCCCGGCGCCGCGGCGACCTCGGAGGAAC
CGGCTCCTTGCGTCCCGCCTCCCTGGGAGCTCCGCACGGGATTTGCAGATTTACAGAATGGCTGCACATTAATGG
AAAGAGAAGCATAAACCTATCTTCTTTTATTATGAGGGAGGTTTGGCAGATGGAGAACCTGATCGAAGCTTCGCT
TCTTGGTGATAGCAAAGATGTCCTTGGGCCATCAACTGTTGTAGCAAACAGTGACGAATCTCAGCTTCTGACACC
AGGAAAGATGAGTCAGCGCCAAGGAAAAGAAGCTTATCCAACGCCAACCAAAGATTTGCATCAGCCATCTCTTAG
TCCAGCAAGTCTCATAGCCAGGGTTTTGAAAGAGGGAAGGAAGATATTTCTCAAAATAAAGATGAATCTTCACT
TTCTATGTCAAAGAGCAAGTCTGAATCTAACTTTATAATGGCTCAGAGAAGGACAGTTCAACTTCAAGCAAAC
CACAAAAAAGAATCTCTTAAGGTACAAAAGAAAAATTACCGAGAAGAAAAGAGCCACAAAGGAGCTGCT
CAGTACAATCACAGATCCTTCTGTTATTGTTATGGCTGATTGGTTAAAGATTCGTGGTACTCTAAAGAGCTGGAC
CAAGTTATGGTGTGTGTTGAAACCTGGGGTGCTACTGATCTATAAAACCCAAAAAATGGTCAGTGGGTAGGAAC
AGTTCTTCTGAATGCCTGTGAAATCATTGAACGTCCATCAAAAAAGGATGGCTTTTGTTTCAAACCTTTTCCATCC
TTTGAGCAATCTATTTGGGCAGTGAAGGGTCCAAAAGGTGAAGCGGTTGGATCCATTACTCAACCTTACCTAG
CAGTTATTTGATCATCCGAGCTACTTCAGAGTCAGATGGAAGGTGCTGGATGGATGCTTTGGAGTTGGCTTTGAA
ATGTTCTAGTCTTCTTAAACGTACAATGATCAGAGAAGGAAAGGAACATGACCTGAGCGTTTCATCAGATAGCAC
ACATGTGACTTTCTATGGCTTACTACGTGCTAACAATCTCCACAGTGGTGATAACTTCCAGTTAAATGATAGTGA
AATTGAACGACAACATTTTAAAGGACCAAGATATGTATTCTGATAAATCTGATAAAGAAAATGATCAAGAACATGA
TGAGTCTGATAATGAGGTGATGGGGAAAAGTGAAGAAAAGTGACACAGATACATCAGAAAGACAAGATGACTCATA
TATCGAACCTGAGCCTGTTGAGCCTTTAAAGGAGACTACCTACACTGAACAGAGCCATGAAGAAGTTGGAGAGGC
AGGTGAGGCTTCTCAAACAGAACTGTATCTGAAGAAAACAAAAGCCTTATCTGGACACTATTGAAACAAGTCCG
TCCTGGCATGGACCTATCCAAGGTGGTTCTGCCTACATTTATTTTGGAACCCCGTTCTTTCTGGATAAACTTTC
AGATTACTACTATCATGCAGATTTTCTATCTGAGGCAGCTCTTGAAGAAAATCCTTATTTCCGTTTGAAGAAAGT
AGTGAAATGGTATTTGTGAGGATTCTATAAAAAGCCAAAGGGACTGAAGAAACCTTATAATCCTATACTTGGCGA
GACTTTCCGTTGTTTATGGATTCTCCAGAACAAACAGCAAACTTTTTATATTGCTGAACAGGTGTCCCATCA
TCCACCAATATCTGCCTTTTATGTTAGTAATCGAAAAGATGGATTTTGCCTTAGCGGTAGTATCCTGGCTAAGTC
TAAGTTTTATGAAACTCATTATCTGCAATATTAGAGGGAGAAGCACGGTTAACTTTCTTGAATAGAGGTGAAGA
TTATGTAATGACAATGCCATACGCTCATTGTAAAGGAATCTTTATGGTACAATGACACTGGAGCTTGGTGGAAC
AGTCAATATTACATGTCAAAAACTGGATACAGTGCAATACTTGAATTTAACTAAAGCCATTCTAGGGAGTAG
TGACTGTGTTAATCAAATATCAGGGAACTTAACTGGGAAAAGAAGTCTTAGCTACTTTGGAAGGTCAATTGGGA
TAGTGAAGTTTTTATTACTGATAAAAAGACTGATAATTAGAGGTTTTCTGGAATCCAACACCTGACATTAAGCA
ATGGAGATTAATAAGGCACACTGTAAAATTTGAAGAACAGGGAGATTTTGAATCAGAGAACTCTGGCAACGGGT
AACTCGAGCCATAAATGCCAAAGACCAAACTGAAGCTACCCAAGAGAAGTATGTTTTGGAAGAAGCTCAAAGACA
AGCTGCCAGGGATCGGAAAACAAAAAATGAAGAGTGGTCTTGCAAATTATTTGAACTTGATCCACTCACAGGAGA
ATGGCATTACAAGTTTGCAGATACCCGACCATGGGACCCACTTAATGATATGATACAGTTTGAAAAAGATGGTGT
TATTCAGACCAAAGTGAAACATCGTACTCCAATGGTTAGCGTCCCCAAAATGAAACATAAGCCAACCAGGCAACA
GAAGAAAGTAGCAAAAAGGCTATTCTCCCCAGAACCTGACATTCAAGACTCCTCTGGAAGTGAAGCTCAATCAGT
AAAACCAAGTACAAGAAGAAAAGGAATAGAAGTGGGAGACATTCAGAGTTCCATCGAATCTATAAAACAAAC
ACAGGAAGAAATTAAGAAAGAAATATTATGGCTCTTCGAAATCATTTAGTTTCAAGCACACCGGCCACGGATTATTT
TCTGCAACAAAAAGACTACTTCATCATTTTCTCCTGATTTTGTCTCAAGTCATAATAAACTTCATGTTCAAGTA
GAAGTTCTCTACCATTGAATCAGTGAAGTAGAAAGATCTGATTTGGCCTGGGACCAGTGTTCAAGTTGGTTGGT
CTTTATTAATAAATCACAAATATTCGAAAACAAAAAACCTAGGAGATAAATGTAGAGGTATTGACTTTTCGTATC
TTTTATCTTCACACTGAACAAAGAGCTATCCTATTTGATTATTAAGTGAGCTATGTGTTAAGTGCCAGGACATT
TCTAGCTTTTGTGAGAATGTGTCTACATATGAGTATAATAAACCACATGTATACACAATTGTCTCTTATGTACT
CCTACCTGACAGTAGTCTTTGTATTCTATAGTATGTTCTGAGATATAATGTTAACATTGTTTCATAACAAAAATG
CTATCAATCTTATAAATATATGTAATCTATTTTCTTCATAAAACAGGCACAAAAGTTTTATCAGTAAGGAATTAC

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FIGURE 993B

AGATTGAGAAATGATGGAATAATAGACATAATTAATTCAATACACTACTGTTAAAATCATTGCAAAGCACTCAG
CTCAATTATCTTCTTAGAAAAGAAAAGAAAAGTATGAATGGTCAAAATGAATACATCGAGAGAGATAAATGGCAAA
TTGCTTTTTTTAAAAGTTTACATAAGTTTTTTTTTAACCCCTAGAATTTAATATTTGTAGATGCAGGTAAATATATA
TACTTACGTGTATATCAGTATAAAAAACTGGTGTGCAATTAATTGGATTGATTATAATACCACCTTAAGCACTT
GCTGAAAAAGTGTGGTCAAAATTGATTGCTGTCCTTTTGTCTTATTTTTGTTTTCTTAAGTCAGCTGGTTCAT
AACATAGGCCAAATTCAGAGATGTTTATAGAGCATTGGAAGTGTGATAATTTATGTTTTTTCATTATGAAAAC
TTATTTTAGCTTTAGACTCCAGTGTGTTTCAAGTGAATAAGTAGAATATAAAAAAATATAACCAGTATTTTACTTCA
AAAGCCAAAAAGAGGCAATAAGAAAAGACACTTTGTGGTGGCCTTTATGTGTGCATTAAAAATTGGTTTCTGTAAA
ACGTGTAATAAGTTGAGTATCTACGAAGAGTATCAAGTTCTGAAGTTAATTTTTTTTATTATCCTCCTCTCTCTCT
TAGTAACTTCTTCTGTGGCAAAACCACAATTCTTTAAGATTCCATTGTTTCAGGCTAAGGCCAAATTTTTTGT
TGTTTCTTCAGTTTAAATTTTTGATTTTGTGTTTTTACGTAAATATTTATATTCCCTGAAAGCAATTTTTGCCAA
GGTAGTTCAGTTTAGGAATATGTTGTTCTAAAATATGTCTTAGAATCCTGAAAGCATAGATTTTGAAATGTTTTT
TTAATGAAAAATGAAGGTCAGAGAGAATAATTGCCCTGACCACATTTGCCTTTCAGTAGGAGGAGGCTGTGAAATA
GTAAAAATTATAATCGTTTATGCCATGATAAATACAAGATTGGTAAATAAATACATTGATTGGTAAATTATGAGAA
TCAAAATGATAAAAAGAGCCTGCTTTTTTCCCTAACCAATATAGCTATCTTAAGTATCCTTAGGTTTCTGTGAAG
AACCATTTCCTCATGTTTTCTTGGCAAAATAATGCTGTATTCCATATGTACATGTGAAATGATGTTTTAAATTGAT
AAAAGCTTAAATAAGATCTACCTATACCCAGTATTTTCATGATATTAGAACAAATGGGTTTTTGGTTATATTTTA
TATTTGTCAATATAATTTTTGTATTACATTCTGTTACACTCTGCCTATTCATTGATATATGATATTCTGTAAAT
ATTGTACAATTTGATCTTTTTTATGGTTTTAAATTAGTTAATTACATACAAATTGATTGGCTTATCACAAAAATCA
TTTCATCAGTAAACCTTGTTAACATTTTGTACTGGTGACCCACCTCTTAGGACTTTGGTCTTATCCACGTGTATG
TTGTTTTCAATTTGGTCCAAATAATATTTTTATTTGTATGGGTATCTTCTAAGACTAAATAGGTAGTTGTGTTCTTT
ATTTTTAAATTTCTTTTTTAGAGCAAATGTTATGGGTCTTACCCAAAGAGTCAAAAATCTTTCTTAAGAAAGA
GCAGAGTTATTCATGACTGTTCTTTATACACTAAAAGCATGCATCTAATCTAATAGTCCTCTTATTATGCTTTTA
GTTGTATGAGTCTCTTTCTATGAACTGAACACAAAATCAGGAATTGGTGGCTTAATTTTAGATCAGTGCTTGTA
CTAGGCTTAGTTATATGAATCTTTATAACACATAATTACTAATTTGTAGCCATATATGTAATTGACTTTGAATG
TTATTTACCTGAAATTAATCTTCTTTCACACATGGACCGTAAACGGTCCCAGTTGTCTGAGAGCCTCATGAGGG
TTTCTAGGATTTATGACCTTATGACCAGTTTTTTTCATTTACCAAGATTTTATTTTCTACATGAAAATTTAATT
GAGTAATAATTATTCACATGTGCATTTTCTTTTTAGCTGTTAAATGTACTATGCCATCATCCACCATTTAGTAAA
ATGTAGCTGGCCCAGGACATGTAAAAAAGCAACAAACAAATAAATAGGGCATGTGAAATGTTAAGTTA
CAGCAATAGATATTTTATTTGTATTTTCAATGTTAGTACTTTTTTGTGTTTTATATCACTTATAAAGGTACAGTGTA
CTTTGTACAGCTCAGTTGGTAACCGCATTCATTGAAAAGTTGGCCTTGTAATAAATACTCTCATTTAATATT
CATGCTTTTGTGCTTTAAGAAAATATTTTTTGTGCTTTTTTGTGTTACAGAACTATAATGTGATTCAAGGTGTT
TATAGGCTTGTATATAAAGGGTCATTTCTGTGTGTTACTTTCTTTTTATATAGCTATAGTATATTTAAACAATAA
TACTATCTTTTATAGGGGTTTGTCTATTTACCTATTCTTTACTCAGACATTGATGTAGACTTGTGAGATTATTCT
GAGTATTGTTAACAGTGCCTTTTCGATGGAATCACACTTTTTGGCTGTGACCTTGTGCCATATACACACAAAATT
TTGTGGAAGGCAGTTTTAACTTTCTGAAGAATATCTGTCAAAATTTAAGAAAACAAATGTATAAAATTCATTTT
TTCCAGTGTTTAGCATTTCTAGTAAGCAGTGAGGTTGTTTGACATACAGTGATGATGGCATTATTGATAAGCCAT
ACATGAGACTGCAGATTATATTGAATCATATTAATGTACAGAAATAAATAATTAGATTTATATCAAATTTTCCA
ATTTGAACAGTGGGGGAAAATCCCACAGAAATCAGTAAGTTTACATTTCAATTTCTATCTTATTGACTAAGTGG
AAAGAGATTCTTTAAATGTATAACCTGCCATTATGTAATTTGGTTTCATTTTATTCTACCTGTTGTGTGAGTTT
AGTATATTTAATTTACTTTTTGTACTCTTTACATACTGTTTATTTTTGTAGTTTTTAATTGAAGATGGACTGT
TGAAATTGTATAGGACCAGTGTCTTATTAATATGATTAATATATTTAGAAGAGCCACGTGAAACCCATGACAAA
TGAATGTGAATATTCTTTCTAAAAATTTAGAAAATGTTATCTTTTTGCATTTATTATGTAAAATGTTTTACAGT
ATCAAAATTTTTCATTTAAGAAAAAATGCCATGAAACATTTGAACTGATGAGCCACAGAACTTCAGTTGAAA
TTTTTTTCACTTTTTAGCATGCTAAATATACATCTGAGTTAAATGTTCTGTTTAAATGGCCATTATAAATTCAA
GCACTACCACTGGTCAGTTTTGTGTGATAGAATAAAAAATATGTTACCTGCAGTGTAAGTACAGCACACTGTCAAA
TTCTTTTCTTAAAGGTGCACAGTAAATGTACAGATAGTTATAGGCCACTGTTTTGTAATGTAGTACATTTCTAAT
CTATTATCCTAACCTATTATAACTGTTTGCAGAAAGAAAAGAAATTTTCTAATAATCTGTAAAATTATGCTAAC

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FIGURE 993C

TTCTACAAGTAGGCTTCTAAATAAAATTTTAAAAAGAGC

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FIGURE 994

MEGGLADGEPDRISLLGDSKDVLPSTVVANSDESQLLTPGKMSQRQGKEAYPTPTKDLHQPSLSPASPHSQGFE
AGKEDISQNKDESSLMSKSKSESKLYNGSEKDSSTSSKLTKKESLKVQKKNYREEKKRATKELLSTITDPSVIV
MADWLKIRGTLKSWTKLWCVLKPGLVLLIYKTQKNGQWVGTVLLNACEIIERPSKKDGFCKLFHPLEQSIWAVKG
PKGEAVGSITQPLPSSYLIIRATSESDGRCWMDALELALKCSSLLKRTMIREGKEHDLVSSDSTHVTFYGLLRA
W 45GDNFQLNDSEIERQHFKDQDMYSDKSDKENDQEHDESDNEVMGKSEESD TDTSERQDDSYIEPEPVEPLK
TEQSHEELGEAGEASQTETVSEENKSLIWTLKQVRPGMDLSKVVLPTFILEPRSF LDKLSDYYYHADFLS
EENPYFRLKKVVKWYLSGFYKKPKGLKKPYNPILGETFRCLWIHPRTNSKTFYIAEQVSHHPPISAFYVSN
FUGFCLSGSILAKSKFYGNLSAILEGEARLTFLNRGEDYVMTMPYAHCKGILYGTMTLELGGTVNITCQKTGY
EFKLKPFLGSSDCVNQISGKLKLGKEVLATLEGHWDSEVFITDKKTDNSEVFWNPTPDIKQWRLIRHTVKF
OFSEKLWQRVTRAINAKDQTEATQEKYVLEEAQRQAARDRKTNEEWSCKLFELDPLTGEGWHYKFADTRP
NDMIQFEKDGVIQTKVKHRTPMVSVPMKHKPTRQQKKVAKGYSSPEPDIQDSSGSEAQSVKPSTRKKGI
DIQSSIESIKQTQEEIKRNIMALRNHLVSSTPATDYFLQOKDYFIIFLLILLQVIINFMFK

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FIGURE 995

TTAAGCACTTGTTTTGGGTACAAGGCATTTCTGACATTTTATAAACCTACATTTAAGGGGAATTTTTAAAGGAAA
TGTTTTTCTTTTTTTTTTTGTTTTTCGAGGGGGCAAGGAGGGACAGAAAAGTAACCTCTTCTTAAGTGGAATATT
CTAATAAGCTACCTTTTGTAAGTGCCATGTTTATTATCTAATCATTCCAAGTTTTGCATTGATGTCTGACTGCCA
CTCCTTTCTTTCAAGGACAGTGTTTTTTGTAGTAAAATCACTGGTTTATACAAAGCTTTATTTAGGGGGTAAAGT
TAAGCTGCTAAAACCCCATGTTGGCTGCTGCTGTTGAGATACTGTGCTTTGGGAGTAAAAAAGAAAGTTATTTT
TTTGTCTTAAAGAATTTTAAAAAATTAGTCATGAGACTTATTCATCTTTCCAGGGAACATACTGATTGGTCTTA
AAAGACTAGACAGTTAAGTAAAAGGTGGCTGGAACATCTATTTTTCTACAAAAGTGGAAAAATGAACCTGGTTCT
AGAAGAATGTACACCAAAATAAACATGTGAAGCAGTATTGATTCTTT

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FIGURE 996

LSTCFGYKAFLTFYKPTFKGNF

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FIGURE 997

GCACGAGCATAGACTTTTAAACTGGTACGGTTCTTAGAGATGTCCTTGGCCTTCTGTTGTTGTTGKGTTTTT
TCTTTTTCTTCTCTCCTTCTCCTTCTTCTTCTCTTCTCCTTCTTTCTTCTTTTTTTTTTTCAGAGTCTTGCTCTG
TCACCAAGACTGGAGTGAAGTGATGTGATCTCGGCTTACTGCAACCTGGGAGGCAGAGGTTGCAGTGAGTCGAGA
TGGTGCCATTGCTCTCGTTTGGGCAACAAGAGTGAAACTCTTGCTCAAAAAAAAAAAAAAAAAATGAGGTTTAAGA
CAGTTTTGTCATTACTGGTGGGATCTGGTCACACAAGATAGCATTAAACGTGACATGGCACATAAAATTGGTTAA
AAAATTTTGTTTTTTTAATTACGTAATGTAAAAGCCCAACAAACACTTTATGCAAGATTGGAATGTATCTTCAAAT
TCAGATTTAATAAACATGTAAAGATCCTCTGTATATAAAAGTTGTATTTAATCCCTTGTGCCCCAAGAATGCTAT
AAAAGATCCCAAGAATGTTATCTATGAAAAGATAGCAATAGGGAATGGTGAACAAATAATTTAATTTGCCAATTC
TAAAAACATGGACTTAAACCCCATGAAAACCTGGTTCCATAGTTTTAACTGTTTTATGGTTCCAATACAAAACC
AGAGTGGTTTACATTCCACAATXACCAAATTTGCATCCAATXTTGGGGTAATTTXGGTATTTGCCATGGGATAC
TATTCATTTTT

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FIGURE 998

MVLGLLLLLXFFSFSSSPSPSSLLLLSSFFFQSLALSPRLE

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FIGURE 999A

CTGTGTGTTTCAGCCATTACTTTGCTCGGCGCTGCTCCCAGGCATCTCCGACCCTCGGTGCTGTGGGGAGCCCCAC
ACTTGGGCTCCTCGCCTCTCGCCCTCGCTCCCCGTCCCTCCTCCCCCTCTCTCCGCCCTTCCCCCTTTTCTTTCT
CCTCTCTTTTCTTCCCCCTCTCTCCCTTCTTTTGGCGCGCGTCTCCCCCGCGCCCTCCTCGGGGCGGAGGGAAGCCG
TGAAGGGGGAGGGAGGGGCTCGGTGTCAATTTTTTTTTTGTGTGGCTGCGGCCGTAGCCTGTGGCGGGCAAGCGGGG
AGACCCCGGCGCAGCAGAACCATGGATGGCCGACGCGGGGCCATGGACTCCGCAAAAAGCGGCGGTGCGGGTGC
CAGCGAGACCGGGAGAGGCGCTCCCGGGGCGGGCTGGGGGCCGCGCGCGCGCGCGCGGGCTGGCCGGACC
CGGGCGCTCTCACTCGCCTCGTCGTGGGCTCCGACAAGGAAGACAATGGGAAGCCCCCGTCTCCGCCCGTCC
CGGCCCAGACCCCCGCGGAGGAAGCGGAGAGAGTCCACCTCGGCAGAAGAGGACATCATTTGATGGATTGCGCATG
ACCAGCTTTGTCACTTTTGAAGCGCTGGAGAAAGATGTAGCACTTAAGCCTCAGGAACGTGTGGAGAAACGCCAG
ACGCCCCGTGACCAAGAAGAAACGAGAAGCACTTACCAATGGCTTGTCTTTTCAATTCAAAGAAGAGCAGACTCAGC
CACCCACACCACTACAGCTCAGATCGAGAAAATGACCGCAATCTCTGCCAGCACCTTGGGAAGAGAAAGAAAATG
CCGAAGGCACTCAGACAGCTCAAGCCAGGACAGAACAGCTGCAGGGACAGTGACAGTGAAAGTGCCAGTGAGAA
TCCAAGGGCTTCCACCGGAGCAGCTCTCGGGAAGGGCTCAGTGATAGTTAGCTCCTTCCAGCTTGGGAACAGGC
TACTTCTGTGACAGTGACAGTGACCAGGAAGAGAAGGCATCAGATGCCAGCTCTGAAAACTCTTCAACACTGTT
ATTGTAAACAAGATCCGGAGTTAGGTGTTGGCACGCTACCAGAACATGACAGCCAGGATGCAGGGCCGATTGTC
CCCAAGATATCGGGTCTAGAGAGAAGCCAGGAGAAGAGCCAGGACTGTTGCAAAGAGCCAATCTTTGAGCCTGTG
GTGCTTAAAGACCCCTGCCCTCAGGTGCGACAGCCAATACCCAGCCGACAGCGAGCCCCAACTCCGAGCTCCT
TCTCCGGACCCTGACTTGGTGCAGCGCACAGAGGCCCCACCTCAACCCCCACCTCTGAGTACACAGCCACCACAG
GGCCCTCCTGAGGCCCAGCTCCAGCCTGCCCCGAGCCTCAGGTGCAGAGGCCACCCAGGCCACAGTCCCCCACC
CAGCTGCTCCATCAGAACCTCCCACCTGTGACAGGCCCCACCCCTCTGCTCAGAGCCTCTCCAGCCATTGTAGCC
TACAACAGCAGTAGCTTAAGCCTCAACAGTTTAAAGCAGCAGCAGAAGCAGCACTCCAGCGAAGACTCAGCCCCGC
CCACCTCACATCTCCACCACCCCTCTGCCTCCCCGTCCCCCTCTCCCTGCCCAACCACAGCCCCCTGCACAGC
TTCACACCCACCTCCAGCCCCCGCACACTCACATCACCCCAATATGTTGCCCCCTCCCACTGCTCTGCCTCCT
CCACCACCACTGACATCAGGAAGTCTGCAGGTGGCCGGACACCCGGCCGGGAGCACTTACTCAGAGCAAGACATC
TTGCGACAGGAAGTGAACACTCGTTTTTTGGCCTCTCAGAGTGCTGACCGCGGGGCTTCCCTGGGCCCTCCGCCC
TACCTGCGGACCGAGTTCCATCAGCACCAGCACCAGCACCAGCACACCCACCAGCACACGACCAGCACACCTTC
ACGCCGTTCCCCCAGCCATCCCACCCACCGCCATCATGCCGACGCCAGCACCTCCCATGTTTGACAAATACCCCT
ACAAAAGTTGACCCATTCTACCGGCACAGTCTCTTCCATTCCCTATCCTCCTGCAGTGTCGGGCATCCCCCTATG
ATCCACCCCACTGGCCCTTTTGGTTCACTACAAGGAGCATTTCAGCCGAAGACATCCAACCCCTATCGATGTGCT
GCTCGGCCTGGGACAGTCCACACACTTTACTCCAAAAGGACCCGAGGTTGACAGATCCTTTTTCAGACCTATGTTA
AGGAAACCAGGGAAGTGGTGTGCTATGCATGTTACATCGCCTGGCAGATTTACCACCACCAACAGAAAAGTCAAG
AAACAGATGCAGTCAGACCCACATAAGCTGGACTTTGGACTGAAACCTGAGTTTCTGAGCCGCCCTCCAGGCCCC
AGTCTTTTTTGGAGCCATCCACCACCCCATGACCTGGCACGGCCTTCAACTTTGTTCTCTGCCGCTGGTGCTGCA
CACCCAACTGGGACCCCTTTTGGGCCACCTCCTCATCAGCAACTTCTCAACCTGCTGCCCACCTAGAGCCT
TTTAATCGGCCGTCTACATTACAGGCCTAGCAGCAGTTGGTGGCAATGCCTTCGGGGGACTTGAAATCCTTCC
GTTACACCCAACTCAATGTTTCGGCCACAAGGATGGCCCCAGTGTGAGAACTTTAGCAACCCCTACGAACCCCTGG
AACCGGCTGCACCGAACGCCTCCGTCTGTTCCCGACCCCTCCGCCCTGGCTGAAGCCAGGGGAGCTGGAGCGCAGC
GCGTCCGCTGCAGCTCATGACAGAGATAGAGATGTAGATAAACGAGACTCATCTGTTAGTAAAGATGACAAAGAA
AGGGAAAGCGTCGAGAAGAGACACTCCAGCCACCCCTTACCAGCACCTGTCTCCCGGTGAATGCCCTGGGACAT
ACCCGAGCTCCACTGAACAGATCCGGGCTCATCTGAACACTGAGGCTCGGGAGAAGGACAAACCCAAAGAGAGG
GAGAGAGACCACTCGGAATCCCGCAAGGACCTGGCCGCCGACGAGCACAAGGCGAAAGAGGGCCACCTGCCCGAG
AAGGACGGGCACGGCCACGAGGGGCGCGCCGCGGGCGAAGAGGCCAAGCAGCTGGCCCGGGTGGCGTCTCCCTAC
GTGCGGACCCCGGTGGTGGAGAGTGCCAGGCCCAACAGCACCTCAGCCGGGAGGCCGAGCCGCGCAAGGGTGAG
CCGGCCTACGAGAACCCCAAGAAGAGCTCCGAGGTCAAGGTGAAGGAGGAGCGGAAGGAAGACCATGACCTGCCT
CCAGAGGCCCCCGAGACCCACCGGGCCTCGGAGCCGCCGCTCCCAACTCCTCGTCCAGCGTGACCCGGGGCCC
CTGGCCTCGATGCCCATGACGTTGGGGGTGACGGGCATTACCCCATGAACAGCATCAGCAGCTGGACAGGACT
CGCATGATGACCCCTTCATGGGCATCAGCCCCCTCCCGGGCGGAGAGCGCTTCCCGTACCCCTTCTTCCACTGG
GACCCCATCCGGGACCCCTTGAGGGATCCTTACCGAGAACTTGACATTACCCGAGAGACCCGCTGGGCAGGGAC

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FIGURE 999B

TTCTTGCTAAGGAACGACCCGCTCCACCGGCTCTCGACTCCCCGGCTGTACGAAGCCGACCGCTCCTTCAGGGAC
CGGGAGCCTCACGACTACAGCCACCACCACCACCACCACCACCACCCGCTGTCTGTGGACCCTCGGCGGGAGCAC
GAGCGGGGAGGCCACCTGGACGAGCGGGAGCGCTTGACATGCTCAGAGAAGACTACGAGCACACGCGGCTCCAC
TCCGTGCACCCCCGCTCCCTCGACGGACACCTCCCCACCCAGCCTCATCACCCTGGGACTCCCCAGCATGCAC
ATCCCCGCATCAGCCCCACCGCGGGCAACCAGAACGGACTCCTCAACAAGACCCCTCCGACAGCAGCGCTGAGC
CTCCCCCGCTCATCTCCACGCTGGGGGGCCGCCGGTCTCTCCAGAGGACGACTCCTCTGTCCGCAGAG
AAGGGAGAGGGCCCCCTTCCACACGCTGAAGGATATCGAGGCCCCGATAGCCGAGAACAGGAGCAAGAACGAG
GAAGAAGAAACCCTAGGCAGACACCAGGCCAGGCTTGAGAGACAGAATCCTGCTATGGCTCACACAGACTGGGGG
AAGCCCCACCCCTTCCCTTGTAATAAATGTATAGACTCAGTGCACATTTTGAAATGTTTTGTATATTATAT
GAGATTTTTCAGATCTTTTAGCCAGTCATATGTTCTCACGTCTCCTACTTTTTGTTTCTCGTATAAACTT
GATTTGAACCAAAACAGTGAAGATGACAACACACCAATTGGATGATAATTGTAGCGGGGGCGGTGGGGGG
AAGTCCACGCCATCCATCATGCAAAATTCTTTCAGATGAGGTGGGAAGGCCGTGTACATAGTTATGTAAAA
ATTGCTTCATGAGCTAATGGTTCATATATGCAAAAGGTAAGATGAAAGCTTTACTTTGTACAAATGTAAAT
ATAAAGTAACATAATACTAATACTTCTTAAATGTGCTATTTGCAAACTTACTTAATATCAGTGAACACAG
TCGGCTAAAGCTGTGTTCCCATATATTGTTATAGACAGCTAAACCCTTCACTATGCAATGAATGTTTCGGCTTT
TCACAAAAGCCCGCTAACTCAAAGGAGCCTTTCAAATCCATTTACAGCATACTTAAGGTCATATTTCCCTGA
ACAAGCGCTTACGTGATATGACTCTGTTTTCTTGCTTGTTTTTTTCAAACGGAGAAACATCCTGTTTTGCAA
TTGGACCCCAAGGCTGGAACCTTAGCATCTGAAGTTGCCGCTTGTTGGCTCTGGGGGAAAGTGTAGCCCCGGAGAGG
TAACTGAGGACATGAGCAACCAAGTGCCAGGGAGGGTGGGATTGCCAGATGCCAAATCAGGGGACGGGTGGTGG
TGTCTGTCAGACACACACAGGTCGCCAGTGACTTCACACACACCTCATGTGAGAACCATGCCTTTTTTAGTGTGT
CCTATTTTCATACCTGTACACACTTCCTCGTTTTGTAATGAGATTTACTTACACCCAAACAGATCCTGAAAGAAAG
CTTCAAGTTTTCTCAGATGATGGATATGTTTTCACTGTATTCAATAACTGACGGATGTAAGGTGCACGTTTCCTG
ATGTGACGCACTGTATTCCAGCTGGTGATCAAGTCTGGGAACAGCCGTAACAGGTCAACCTTGTGGAGCCATCGC
GAGTTAGAGGGTGAAAGATGGCAGAAAAAAGTCTTGTTGTGTGAGTGTGTTTTTGAGTTTGCATCAATCTTAA
TGCTCTTTCATAATACTTTTATAATACATTAAGCCTCTTGCTACATATTTGGAGAGAATATGACTTTACTAGCA
GAGAAATACAATATATCTTGTCTACTGGACTGTAAATATATGTATGAAATAAAATTAGTTCCATTTGGTCTTCT
AGTATATTAAAGTGCTATCTGACGTTGTTATCCTGTTTTTGCAAAAAAAAAAAAAAAAAAAGTTAACTACAGAC
CATTGTTTTCTAATAAGCAGAGAGATCTATTTTAGTAGTAACTGAAGGTTTAGTTGTGAGCTTCAGATTTTGTGA
ACTCCAGATGTTGTGCGGTGTTTTTTTTTTTTTTTAAAGACAACAACTAAAAAATGCAAGGAATATGTACACTGG
AACTGTAGTGGTAGCTTTTCACTATTGTAAAGAGATTGTTCTATACGGACCTTTTTTGCTGTTTATCCTGTATGTAA
TAAAGTCCTTTCTAGATCCTATGTGAAAAGAAAAGTGAAGCAACTGAATCTTCAGCATGTTCTCATCGGCGGAGC
CTTCTTGTGTAATGTAACTGTGCCATGTTATTAAAAAATGTGAAC

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FIGURE 1000

MDGPTRGHGLRKKRRRSRQDRERRSRGGLGAGAAGGGGAGRTRALSLASSSGSDKEDNGKPPSSAPSRPRPPRR
KRRESTSAEEDIIDGFAMTSFVTFEALEKDVALKPQERVEKRQTPLTKKKREALTNGLSFHSKKSRLSHPHHYSS
DRENDRNLCQH LGKRKKMPKALRQLKPGQNSCRDSDSESASGESKGFHRSSSRERLSDSSAPSSLGTGYFCDS
DQEEKASDASSEKLFNTVIVNKDPELGVGTLP EHDSDQAGPIVPKISGLERSQEKSDCCKEPIFEPVVLKDP
QVAQPIPOQPTEPQLRAPSPDPDLVQRTEAPPQPPPLSTQPPQGPPPEAQLQAPQPOVQRP
PPVQAHPSAQSLSQPLSAYNSSSLSLNSLSSSRSSSTPAKTQPAPPHISHHPSASPFPLSLPNHSP
PAHSHHPNMFAPTALPPPPPLTSGSLQVAGHPAGSTYSEQDILRQELNTRFLASQSADRGASL
QHQQHQQHQQHQQHTTFTFPFHAIPPTAIMPTPAPPMFDKYPTKVDPFYRHSLSFHSYPPAVSGIPPMIP
GSLQGAQPKTSNPIDVAARPGTVPHLLQKDPRLTDFRPMRLKPKGKWCAMHVHIAWQIYHHQKVKQM
HKLDFGLKPEFLSRPPGPSLFGAIHHPHDLARPSTLFSAGAAPTGTPTFGPPPHHSNFLNPAAHLEPF
TGLAAVGGNAFGGLGNPSVTPNSMFGHKDGPVQNFNPHEFWNRLHRTPPSFTPTPPWPKPGE
RDRDVKRDSVSKDDKERESVEKRHSSHPSPAPVLPVNALGHTRSSTEQIRAHNLTEAREKDKPKERERD
RKDLAADEHKAKEGHLPEKDGHGHEGRAAGEEAKQLARVSPYVRTPVVESARPNSTSSREAEPRKGE
KSEVKVKEERKEDHDLPEAPQTHRASEPPPPNSSSVHPGPLASMPMTVGVTGIHPMNSISSLDRT
GISPLPGGERFPYPSFHWDPIRDPLRDPYRELDIHRDPLGRDFLLRNDPLHRLSTPRLYEADR
HHHHHHHHPLSVDPRREHERGGHLDERERLHMLREDYEHTRLHSVHPASLDGHLPHPSLITPGLPSM
AGNONGLLNKTPPTAALSAPPLISTLGGRPVSPRRTTPLSAEIRERPPSHTLKDIEAR

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FIGURE 1001

GGCACGAGGGGCAGCATGGCGTCCGTGACGCTGAGCGAGGCGGAGAAGGTGTACATCGTGCATGGCGTCCAGGAA
GACCTCCGTGTGGATGGCCGTGGCTGTGAGGACTACCGATGTGTCTGAAGTGGAAGCTGATGTGGTGTCCAACACT
AGTGGGTCCGCCAGGGTCAAGCTGGGTACACAGACATCTTGGTGGGAGTGAAAGCAGAAATGGGGACGCCGAAG
CTGGAGAAACCAAATGAAGGCTACTTGGAGTTCTTTGTTGACTGTTTCTAGCCAGTGCTACCCCTGAATTTGAAGGT
AGAGGAGGTGATGACCTTGGCACCAGATCGCTAACACCCTCTATCGGATATTTAACAATAAAAGCAGTGTGCAC
TTAAAGACCCTCTGCATTAGTCCTCGGGAGCACTGCTGGGTTCTCTATGTGGATGTGCTGCTTCTGGAATGTGGT
GGAAATTTGTTTGATGCCATTTCCATTGCTGTAAAGGCTGCTCTCTTCAATACAAGGATACCAAGGGTTTCGAGTT
TTGGAGGATGAAGAGGGGTCTGAAGGACATTGAATTGTGAGATGACCCCTTATGACTGCATACGACTAAGTGTGGAG
AATGTCCCCTGCATTGTCACTCTGTGCAAGATTGGCTATCGGCATGTGGTGGATGCTACTCTTCAGGAGGAGGCC
TGCTCGCTGGCCAGCTTGCTGGTGTCTGGTGACCAGCAAGGGAGTTGTGACGTGCATGAGGAAAGTGGGGAAGGGC
AGCCTGGACCCAGAGAGCATCTTCGAGATGATGGAGACTGGCAAGCGTGTGGGCAAGGTACTGCATGCCTCCTTG
CAGAGTGTCTGCACAAGGAAGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATTCTTGGGATGATTTTGCACAT
CAACTGCTCAACTGTGGATTGTTTTTACTTTTCTTTTAAACCGGTTTCGTATATATTTTTTCTTTCGCTGTTACGA
ATTTACAGCAGCATTGTACATGTAAAATTAAAGGCTATTTTCTGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1002

MASVTLSEAEKVYIVHGVQEDLRVDGRGCEDYRCVEVETDVVSNTSGSARVKLGHTDILVGVKAEMGTPKLEKPN
EGYLEFFVDCSASATPEFEGRGDDLGTETIANTLYRIFNNKSSVDLKTLCISPREHCWVLYVDVLLLECGGNLFD
AISI AVKAALFNTRIPRVRVLEDEEGSKDIELSDDPYDCIRLSVENVPCIVTLCKIGYRHVVDATLQEEACSLAS
LLVSVTSKGVVTCMRKVGKSLDPESIFEMMETGKRVGKVLHASLQSVLHKEESLGPKRQKVGFGLG

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FIGURE 1003A

AGGGCGTGGTCAGCGCGGCCGAAGGGCGTGGTTGGCGCTCGGTCTGCCCTGCGCGTTTTGGGCTGCGGTTGGAG
GGCCGCAGTTGCAGTCAGGGTCCGCCAGCTCGGGGCCAGCGCATGGGGCTGCTGAGACCGCTCCGGACGTGCGAA
GCGTTTCGCGGTGCGGTAGGAAGCTGAAGTCTTCAGCAGAACCCTGACCTAGGTAGGGAGTCTCAATGGCCCTGGG
TGAAGAAAAGGCAGAAGCGGAAGCATCTGAAGACACAAAGGCCAGTCTATGGGAGAGGGAGCTGCAGGGAGCG
GGAGCTGGACATCCCAGGGCCCATGAGTGGGGAGCAGCCCCACGCCTGGAAGCTGAGGGAGGGCTCATCTCCCC
TGTATGGGGGGCAGAAGGGATACCTGCCCCTACTTGCTGGATTGGGACTGACCCTGGCGGGCCCTCTAGAGCCCA
CCAGCCACAGGCCAGTGATGCCAACAGAGAGCCCGTAGCTGAGAGGTCTGAGCCTGCACTCAGTGGCCTGCCTCC
TGCCACCATGGGGTCTGGAGACCTTCTGCTCTCGGGGAAAGCCAGGTGGAGAAGACCAAGCTTTCTTCTCCCGA
GGAGTTCCCTCAGACTCTGAGCCTTCCCAGAACAACTATTTGCTCAGGACATGATGCTGATACCGAAGATGA
TCCATCCCTAGCAGATTTGCCCCAGGCACTGGACCTCAGCCAGCAGCCTCACAGCTCAGGTCTCTTGCCTGTC
ACAGTGAAGTCCGTGCTGAGCCCAGGTTCCGCAGCTCAGCCTTCCAGCTGCAGCATCTCTGCTTCCCTCCACAGG
CAGCAGTCTCCAGGGTCAACCAGGAGAGGGCGGAGCCTCGTGGTGGTTCTCTGGCCAAGGTCTCCTCCTCCAGG
GCCGGTCTGCCCCAGGAACCTTCTCTGTGGTGGGGCTAGGACCTCGGCCCCAGTGGTCAACACAGCCTGTGTT
CTCTGGGGGTGATGCTTCTGGGCTAGGCAGGAGACGCCTCTCCTTCCAGGCTGAGTACTGGCCTGTGTGCTGCC
AGATTCCCTGCCTCCATCACCCGACCGCCACTCCCCTCTCTGGAACCCAAATAAGAGTATGAAGATCTGCTTGA
CTATACTTACCCACTGAGGCCCCGGGCTCAGCTCCCAAAGCACCTTGATAGCCGTGTGCCAGCTGACCTGTCTCT
GCAGGACTCCGGGGTAGACCTGGATAGCTTCTCTGTCTCTCCAGCAAGCACCTCAAATCACCTACTAATGTCTC
CCCCAACTGCCCACCAGCAGAGGCCACTGCCCTGCCATTTTCTGGGCCCAGAGAGCCAAGCCTTAAGCAGTGGCC
CTCCAGAGTACCCAGAAACAGGGTGGCATGGGCTTGGCATCTTGAGCCAACTTGCATCTACCCCCAGAGCCCC
AGGCAGTAGGGATGCTCGTTGGGAGCGCAGAGAGCCAGCCCTGAGGGGTGCGAAGGACCGGCTGACTATAGGCAA
GCACCTTGATATGGGCTCTCCCCAGCTAAGGACACGGGACAGAGGGTGGCCCTCGCCCAGGCCAGAGAGGGAGAA
GAGGACCAGCCAGAGTGGCCGGCGCCCTACCTGCACAGAGTCTAGGTGGAAATCAGAAGAGGAAGTGGAAAGTGA
TGACGAGTATCTTGCCCTCCCCGCTCGGCTGACACAGGTTTCTAGCCTGGTTTCGTATCTAGGATCCATTTCTAC
CTTGGTTACCCTGCCACTGGGGATATCAAAGGGCAGAGCCCCCTGGAAGTGTGACACAGTATGGGCCAGCTTC
CTTCCCTTCAAGCTCCAGCCAAAGCCAGCTTCCCCCTGGAGCTGCCCTCCAAGGATCTGGGGATCCTGAGGGCCA
GAATCCCTGTTTCTGCGCTCCTTCGTCCGTGCCCACGACTCCGCAGGGGAAGGCAGTCTGGGGAGCAGCCAGGC
CCTCGGGGTCTCCTCTGGACTGCTGAAAACACGCCCCCTCTTGCCAGCTAGGTTGGACCGGTGGCCATTCTCAGA
CCCAGATGTTGAAGGGCAGCTTCCCAGGAAAGGAGGAGAACAGGGAAAAGAATCACTGGTGAATGTGTGAAGAC
ATTTTGCTGTGAGCTGGAAGAGCTGATCTGCTGGCTGTATAATGTTGCAGATGTTACTGACCACGGGACTGCAGC
CAGGTCCAATCTTACAAGTCTCAAGTCTTCTCTGCAGCTTTACCGGCAATTTAAGAAAGATATAGATGAACATCA
GTCTCTGACGGAGAGTGTCTTACAGAAGGGGGAGATTCTTCTTCACTGCCTGTTGGAGAACACCCCCAGTTTTAGA
GGATGTCTTGGGAGGATCGCAAAGCAGTCTGGTGAAGTGGAGAGCCACGCAGATCGCCTGTATGACTCTATCTT
GGCCTCTCTGGACATGCTGGCTGGCTGCACCTTATCCCTGACAAAAAGCCCATGGCGGCAATGGAGCACCCATG
TGAAGGGGTTTAACTGGCATCTTCTCAGGCAGAGGTGCAACCTGTGCGCCAAACACTGGCTAGTGAGAAAAAAT
CCTTCAAGAAGTCTTGAAGAGCCATTCAACACTGAAGTCAAGGGGGAACCTTCAATATACTAGCTTTAAAT
GCCTTTCTCCTCCCTGAATGGAGGGCTGAGTTACTATTTTTATTTACAATGAATCCTTCCAAACTAAGGTTTTCC
TTTTGGTGCTTCTCCACAAAGAGCGTGTAGCTTTGCAATTTTTGATAAAATAAGACGTGTGCTTCCCTCTAT
CCCATTAAAAAAGAGCAGATAAAGCTCAAACCTATCCACCTGGTAGGGTCATTTACCAAGGGCTGGTAGGAGATT
CCGAATACTCAATATTCTCAGGCATGCAAGAGGACCTAAGAGACTGAAAAAGTGAATTGTTGGCCAGAAACCTT
GGGTCTTTTCAATAAGGAAATTTGGGCTTGTCAATCCCTCTTTAAAGATATAGGTAGAAAGAAGAGATTTTTAAC
CCTTTGTCTGCAAAAAGAAAAAGGGTTAAATGAAGCATCTATACAGATGACTTTGGGAGATTATGACACCTTTTGC
CATCTTCAGGGCTTACGTCTTTACTTTCTTGGCTAACAGTTTCTTAGAAGAAAATGTGTCAGGGACTTGGGGAT
CTACAGTCATGCTTTAGCATGGCTATGGAGCTAATTATCAAGCTTAAAGGGTAACCTTTGGGAGGACTCCTCCCTT
CACTCCTAGTCTCCCTTGGAAGAGCAGTCCAGGCTCAGGGAAGGGAATGGATAGGATGACACAGTAAGTACAGAA
ACTGAAGCTGTCAATAGTGAAGGAAAAAGGGGAATTCTTCGTTGCTTTGGCATTGACACATAAGTACTTTGATTA
AAAAAAAAAAAACTATGGATCAACCATTCAAAGCATCAATTCTATAGCTTTTTGTCAGCAAGATGATCAGTTATT
GCTGGTAACTGCAGATTCTACAGAAAAGCACTTTTAAAGTTCTGTTGGGCCATGAATGAACCTGGAAGGAGGAAA
GCACAGTAACAATGGAACTAAAGTCCTATTATTAATGTGACTTTTCTGCTTCAGAATTTCTGAGACTTTATAGT

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FIGURE 1003B

CACTGGAAATAGCCATTAAATTCTTTAAAGATTAGCTCTTCAACAGTAGCTACACATAAAATGCAGTATTTCAA
GTGCTGATGCTGCTGTGGTATGCTTTATCATAATGCTTAAGGGCATGATCAAAATTTAAATGGCTTATGAGTTT
GCCATATTAAATCATCTTAGTTCCATACACACTGAGACTTTAAAAGGGAAAAACCCTCTAGCAAATAATTGTCAA
TTATAAACCTGTATGTAAACATTCTTGAAAACCTAGAGTTGGTTAAAAGGTAGAGATGTCTGACGGCCTCTTC
TTAAATTGATATATTTTACCTTCTCTTAGATGTATATTTATAAGTAGGAACATGTCCTTCCACTGAGTATGTTAC
TGAATAGCCCTTAGGAAATTAAACCCATTTATTTACTAATATTTGACAGGCATAGAAGTGTATTAATTAGCATAA
AAGTTGGAGATGAAAACCTATAGAAACAAATTGGCCAATATTATACTAATTGAATGCAGAATGTGGCATTCTAT
TCCCATTCAACTAATAATCAGCTTCAACTGACAGGAATTTGCACAGAATGTTACACAATACCCTGTTTCCCAAGA
AAGTACTACCTTACCTAGAGATGATCTAAGATATTTTTGTTTCATCCTCTGAATAAGGTGAGACTAAAGGGTGCTA
ACTCCCTGGACCTGGCTGTGAATGCTACTGAAGAGTATCAACACAACCTGTTAATTATACCGCCGTGCTTTAAGTT
TAAGACTTACCTTAAAACTCAAGCTGAAGGCTGGGCACGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGGC
CGAGGCGGGTGGATCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTACTAAAA
ATACAAAAGAAATTAGCCAGGCGTGGTGTATGGGCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCATGAGAA
TGGCATGAACCCGGGAGGCGGAGCTTGCAGTGAGCTGAGATGGCACCCTGCACTCCAGCCTGGGCAACAGAGTG
AGACTCTTGTCTCAAAAAAAAAAATCAAGCTGAAATTGTTTCAGCCTAGTAAGATGCTGCCAGCAGCATTCTA
TGAGCAAACATGGCCAAATTAGAGTCAAGTAGCTGAGCTTGCTAACTGCACTGTGATGCCACACTGGAATAACTT
AGTAGTCCCTTAAAATTAATGGAAGTTAAATCCACAGGGAAGTGATGATACTCAAAGCTGGATCAGCAGTTTCAA
GATCTGGGTTCTTGGAGATCCATAGGTAAGCTCAGCAAATGGAAGACGACGTCAACACAGGGCTATTTTGAAGCT
TAGGTGGGAATGGAACACAAAGAAGTTTGAGGTAAGATATGCTGGAAAGGCAAGATGTAGGCTAAGGGAAATTC
AATCCAAGGTCGAAGAATAGGAAATTACTGCTCAGACCACAATGACTATCATTCTGAAAGGATTTACAGAGTGT
GCAGCTGCTTAGATTTAAGAACACTCTTCTTCACTATGTAACTAATTTATGGCAGCACCTTATATTTAGAACAA
GTGGTAATTCCTTTACTAAGTGAACAGATTATTAACCTGTAGTAGCTTTGAACCGTTTGTACTTGAAAATGG
GGGTATAAAGGGGTATATATTTTTTCCAGAACCACATTTATTGGCGTATACATAGAAGCAAATCTTAAGGCATGC
TGAAATTTGTTGTAAATCCCAATCTTTACTGCCATGGGGAAAAGAACGCTGGAATTTTCCAACTTAAGTCTGTA
AATATGCTCATCTTAAGTTTATGTAAATGTTTCCGCTAACTCACCAAGAATAAGCTGACAATTTAAACAACCTTTA
CTGTGTAAAAATGAAGTGCACGGCATGGCATCACAGTATCTTGACATTTGTTTTGTGTCATTTAGCTACTTTAGA
AAATAGTTTCTGAACCTTTTCCCCCTTTATACTGTATTAAGGCAAAAACAAACTTCTGAAGCATTAAAGATCTT
CACCAAAATAACTATTGGTAACCTCAGGAATTTGTGAGTTGCCCTTATGTGAGGATGAATAGATCCACCAAGCAG
CCTATAATACAAAGTAACTATGATTTTTATTGTGAAATTTTCATAGATGGAAAATTGAATATTCTGTCCATTT
ATTTTACAATTATCTTACCCTTATTTTTGTACCATGTATTTCAATTGCCTGTTTAGTGAAAAATAAAATTTAA
AAAACCT

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FIGURE 1004A

CCCCGGCGGGCCGTGTGTGAGGAGCAGTAGAGAACTGTGGACTATTCTGCTTGGAAGGTCAGCTCTGAGAGAGCT
GAGTCAGATTGAGGCAGAAGCTGAATAAACATTGGCGGCGATTGTTAGAGGGGCTTTCTTACTACAAACCTCCCAG
TCCAAGTTCAGCTGAAAAAGTGAAAGCTAATAAAGATGTAGCTTCACCATTGAAGGAAGTGGGTTTAAGAATCAG
CAAGTTTTTGGGTCTTGATGAAGAACAGAGTGTGCAGTTACTCCAGTGTTACCTGCAAGAGGACTACAGGGGTAC
TGGACTCAGTAAAGACAGTACTGCAAGATGAGAGGCAGAGCCAGGCCCTTAATCCTGAAGATTGCAGATTATTA
TGAAGAAAGAACCTGTATTCTTCGTTGTGTCTTACACCTTCTCACTTACTTCCAAGATGAAAGACACCCCTA
CGTTGAATATGCAGACTGTGTGATAAATTGGAGAAGGAAGTATTCAAAATACAGACAGCAGTTTGAAGA
CTTTATAAACTGAAGCACCAACTTGGGAGACACATGGAAATCTCATGACAGAGCGCCAAGTGTCTCGCTGGTT
TTCAGTGCCTTCGGGAACAGTCCATGCTGCTAGAAATTATTTTCTTTTATTATGCATACCTTGAGATGGCACC
TACTACTTGTATTAACCAAGATGTTTTAAAGAGCAAGGATTTGGTAGTAGGCAGACCAATAGGCACCTGGT
TGAAGACTATGGATCCTTTTGTAGATCGGATTGGCTACTTCAGTGCCCTCATCCTGGTGGAGGGCATGGATAT
TTCCTTGCAATAAGTGTGCTTTGGATGACAGAAGAGAACTGCATCAGTTTGGCGAGGATGGGCTTATTTGTCA
TATGGACTGTTAATGTTGACCTTTGGGGACATTCCACATCATGCCCCAGTGCTTTTGGCCTGGGCTCTCCT
TCTCACACTCTGAACCCAGAAGAGACAAGCAGTGTGGTCCGGAAGATAGGTGGCACAGCCATCCAGCTGAATGT
GTTTCAGTACTTGACCCGATTGCTCCAGTCCCTTGCCAGTGGGGGAAATGATTGCACCACCAGCACTGCATGCAT
GFGTGTCTATGGACTGCTCTCTTTCTGTTCTGACCTCGTTGGAGCTGCACACCCTGGGCAATCAGCAGGATATAAT
TGATACAGCATGTGAAGTATTGGCCGACCCCTTCTCTCCGGAAGTGTCTGGGGAACAGAGCCAACCTTCTGGCCT
TGGGATCATTCTGGACAGTGTGTGTGGAATGTTTCCCCACCTTCTCTCCCCACTCCTGCAACTGCTCCGAGCCCT
GGTATCAGGGAAGTCCACAGCCAAAAAGGTGTATAGCTTCTTGGAATAAGATGTCTTTCTACAATGAACCTTTATAA
ACACAAGCCTCATGATGTGATCTCCCATGAAGATGGAAGTCTTTGGCGGAGACAAACACCCAAACCTCCTTTATCC
CCTTGGGGGTCAAACCAACCTTCGCATACCTCAAGGCACTGTGGGGCAAGTAATGTTGGATGATAGGGCATACT
GGTACGCTGGGAATACTCCTATAGCAGCTGGACCCCTTTACCTGCGAGATTGAAATGTTGCTTCATGTTGTTTC
AACTGCAGATGTGATTACAGCACTGCCAGCGAGTCAAACCCATCATTGATCTCGTCCATAAGGTATCAGTACAGA
CCTGTGATAGCAGACTGTCTCCTGCCATCACATCTCGCATCTACATGCTGCTGCAGCGGTTAACGACAGTGAT
CTCCCCACCTGTGGATGTCAATTGCTTCTTGTGTCAACTGCTTAACTGTTTTGGCTGCCCCGAATCCAGCAAAGGT
CTGGACTGATCTTCGTACACAGGTTTTTTTACCATTGTGGCCCATCCTGTCTCCAGCCTGAGTCAGATGATTAG
TGCGGAAGGGATGAATGCTGGAGGGTACGGAAACCTCTTGATGAACAGTGAACAGCCTCAGGGCGAGTATGGGGT
TACTATTGCCTTTCTGCGCTTGATCACCACCCTTGTCAGGGGGCAACTTGGTAGTACCCAGAGCCAAGGACTTGT
ACCCTGTGTAATGTTTGTGCTGAAGGAGATGCTTCCAGCTACCATAAGTGGCGCTACAACCTCTCATGGAGTGAG
GGAACAGATTGGTTGCCTGATCTTGGAGCTGATTATGCGATACTGAACCTGTGCCACGAGACAGACCTGCACAG
CAGTCATACTCCCAGCCTGCAGTTTCTCTGCATCTGCAGCCTGGCATAACAGAAGCAGGACAGACAGTTATCAA
TATCATGGGCATTGGCGTGGACACCAATTGACATGGTGATGGCTGCTCAGCCTCGAAGTGATGGGGCAGAGGGCCA
GGGGCAGGGCCAGCTGCTGATCAAGACAGTGAACTGGCATTCTCCGTACCAACAATGTTATTTCGGCTGAAACC
TCCTTCTAATGTGGTGTCCCCCTGGAACAGGCTCTCTACAACATGGTGCTCATGGAAACAACCTCATTGCTGT
TCTAGCCAAATACATCTACCACAAACATGACCCTGCTTTGCCACGTCTTGCCATTACAGCTGCTGAAACGTCTGGC
CACGGTGGCCCCAATGTCAAGTGTATGCTTGTCTGGGCAATGATGCGGCTGCCATTCTGTATGCCCTTCTTGACCCG
ATTGCAGAGCAAAATTGAGGACATGCGCATCAAAGTCATGATTCTAGAGTTCTCACTGTTGCAGTAGAGACCCA
GCCAGGCCTCATCGAACTGTTTCTGAACCTGGAAGTTAAGGATGGCAGTGATGGCTCAAAGGAATTCAGCCTTGG
GATGTGGAGCTGTCTCCATGCAGTGTGGAGCTGATTGATTCCCAACAGCAAGATCGATACTGGTGCCACCCCT
GCTGCATCGTGCCGCCATTGCCTTTTTGTCATGCTCTGTGGCAGGATCGGAGGGACAGTGCCATGCTGGTCTCCG
AACCAACCCAAAGTTTTTGGGAAAATTTAACCAGTCCGCTGTTTGGAAACCTTTCTCCTCCTCTGAAACATCAGA
GCCCAGCATCCTGGAAACCTGTGCCCTAATCATGAAGATAATTTGCTTGGAGATATACTATGTAGTAAAGGGTTC
ATTAGACCAGTCATTAAAGGATACACTGAAGAAATTTCCATCGAGAAACGCTTTGCCTACTGGTCAGGGTATGT
CAAGTCATTGGCAGTTTACGTGGCCGAAACAGAAGGCAGCAGCTGCACCTCCTTGTTAGAGTACCAGATGCTGGT
GTCCGCTGGAGGATGCTTCTCATCATTGCCACCACTCATGCAGATATAATGCACCTGACTGACTCTGTGGTGCG
TCGCCAGCTCTTTCTTGACGTGCTTGATGGAACCAAGCATTACTCCTAGTTCCAGCCTCAGTGAAGTGCCTTCG
CCTTGGCTCCATGAAGTGCATCTGCTGCTTATCCTCCTCCGGCAGTGGAAGAGAGAGTTAGGTTCTGTGGATGA
AATCCTTGGACCTTGACGGAGATCCTGGAGGGAGTGTGCAGGCCGACCAGCAACTCATGGAGAAGACCAAGGC

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FIGURE 1004B

CAAGGTGTTCTCAGCATTTCATCACAGTGTTGCAAATGAAGGAGATGAAAGTAAGTGACATCCCCCAGTACTCCCA
GCTGGTGCTGAATGTCTGTGAGACCCCTCCAAGAGGAAGTGATTGCACTCTTCGACCAGACCCGCCACAGTCTGGC
ATTAGGCAGTGCCACAGAGGACAAGGACAGCATGGAGACTGACGACTGTTCTCGGTCCCGGCACAGGGACCAGCG
TGATGGGGTGTGTCTCCTGGGCCTGCACCTGGCCAAGGAGCTGTGTGAGGTAGACGAGGATGGTGACTCCTGGCT
GCAGGTAACCCCGCAGGCTCCCCATCCTACCCACCCTCCTCACCCTCTAGAGGTGAGCCTTCGCATGAAGCAGAA
CCTGCATTTCACTGAGGCCACATTGCATCTGCTCCTCACCCTGGCTCGCACTCAGCAGGGAGCCACAGCAGTGGC
TGGAGCTGGCATCACCCAGAGCATTTGTTTGCCCTTCTGAGTGTGTACCAGCTGAGCACCACGGGCACAGCACA
GACACCTAGTGCCTCTCGGAAGTCCCTGGATGCCCCCTCTTGCCAGGAGTCTACCGCCTGTCCATGTCCCTGAT
GGAGCAGCTGCTCAAACTCTGCGCTACAACCTCCTGCTGAGGCCCTGGACTTCGTGGGTGTCCACCAGGAGCG
GACCTTACAGTGCCCTCAACGCAGTGAGGACAGTGACAGTCTGGCCTGCCTGGAGGAGGCGGACCACACCGTGGG
TTTTATTCTGCAGCTCTCTAACTTCATGAAGGAGTGGCACTTCCACCTGCCTCAGCTCATGCGTGATATCCAGGT
CAACCTGGGTTACTTGTGCCAGGCATGTACCTCTCTCCTGCACAGTCGAAAGATGCTGCAGCATTACTTACAGAA
CAAAAATGGGGATGGCCTCCCCCTCAGCTGTTGCCAGCGAGTCCAGAGGCCACCGTCTGCTGCTTCTGCTGCCCC
CTCCTCCTCAAAGCAGCCCGCTGCTGACACAGAGGCATCAGAGCAGCAGGCCTTGACACAGTCCAGTATGGCCT
TCTCAAGATCCTCAGCAAGACGCTGGCAGCCCTGCGCCACTTCACCCAGATGTCTGCCAGATTCTGCTGGATCA
GTCCCTGGACCTTGCTGAATACTTCTGTTTGCCCTGAGCTTTACCACTCCACCTTTGACTCCGAAGTGGC
CCCCCTCCTTCGGGACCCTTCTGGCCACAGTGAATGTGGCCCTCAACATGCTTGGAGAGCTGGACAAGAAAAAGGA
GCCCCCTACCCAGGCAGTGGGGCTCAGCACACAGGCAGAAGGGACCAGGACGTTAAAGTCCCTCCTGATGTTTAC
CATGGAAAACCTGCTTCTACCTGCTCATCTCTCAGGCGATGCGGTACCTTAGGGACCCGGCTGTGCACCCCCGGGA
CAAACAGCGGATGAAGCAGGAGCTCAGCTCTGAGTTGAGCACGCTGCTGTCCAGCCTCTCGCGCTACTTCCGCCC
GGGAGCCCCCAGCTCCCCTGCCACTGGTGTCTCCCCCTCGCCGCAGGGCAAGTCCACCTCTCTCTCAAAGCCAG
CCCTGAGAGTCAGGAGCCTCTGATCCAGTTGGTGCAGGCGTTTGTCCGGCATATGCAAAGATAGGGCAGTGCTGT
TCTGCCCCACCTACCCCTCTCCACCAGCCTACACTGCACCCTGGCTGGCAGGGGTGCTGCTGGCTGCTAGGGCCTA
TACAATGGAGGGCACCTCCTGTCAACCCCCCTCCCGGAGTAGCCACGACTCCAGCCACCACCCACTGACGTTATTT
TTATACTAGATGAAGAGGTCAACAGCAGGCATGGGGAGCCGAGTCTTCTGTGCTCAGGTCCTCACGCTGCAGACG
CCCCCTAGAGGAACCTTTCTTCTTTCCAGCATTCCCCACAGCACTGCCGGCCAGGGGAGAGGGCGGCAGCCCAGC
AGAGGGCTCTATGCACGGGTTTCAAACCTGTTTTCCACACTCTGTCTTTGCAGTTTTGGTAATTCTGTGGTCTAT
TTATACAGATATTAAATCTTGTTTATAGAC

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FIGURE 1005A

GGCCGAGTCGTGGCGGGAGACGGTGCAGCTGTACGAGGACGAGGTGCGCGAGCTGGAGGAGGCGCTGCGGCGCGG
CCAGGAGAGCAGACTCCAGGCGGAGGAAGAGACGCGGCTGTGCGCGCAGGAGGCAGAGGCGCTGCGGCGCGAGGC
GCTCGGGTTGGAGCAGCTGCGCGCGCGGCTGGAGGACGCGCTGCTGCGGATGCGCGAGGAGTACGGGATACAGGC
CGAGGAGCGGCAGAGAGCGATTGACTGCCTGGAGGATGAGAAGGCAACCCTCACCTTGGCCATGGCTGACTGGCT
GCGGGACTATCAGGACCTCCTGCAGGTGAAGACCGGCCTCAGTCTGGAGGTGGCGACCTACCGGGCCTTATTGGA
AGGAGAAAGTAATCCAGAGATAGTGATCTGGGCTGAGCACGTTGAAAACATGCCGTGAGAATTCAGAAAACAAATC
CTATCACTATACCGACTCACTACTACAGAGGGAAAATGAATGGAATCTATTTTCAAGGCAGAAAAGCACCTTTGGC
AAGTTTCAATCACAGCTCGGCACTGTATTCTAACCTGTCAGGGCACCGTGGATCTCAGACGGGCACATCTATTGG
AGGTGATGCCAGAAGAGGCTTCTTGGGCTCGGGATATTCTTCTCGGCCACTACCCAGCAGGAAAACCTCATACGG
AAAAGCCGTCAGCAGTCAAACCAACGTCAGAACTTTCTCTCAACCTATGGCCTTTTAAAGAAATACTGAGGCTCA
AGTGA AAAACATTCCCTGACAGACCAAAGCCGGAGATACAAGGGAGGTCCCCGTTTACATAAGTGAAGATTCCAC
AATTGCCCCGCGAGTCGTACCGGGATCGCCGAGACAAGGTGGCAGCAGGTGCTTCGGAAAGCACACGGTCAAATGA
GAGGACCGTCATTCTGGGAAAGAAAACAGAAGTGAAAGCCACGAGGGAGCAAGAAAGAAACAGACCAGAAACCAT
CCGAACAAAGCCAGAAAGAGAAAATGTTGATTCTAAAGAGAAGGCTTCTGAGGAGAGAAACCTAAGATGGGAAGA
ATTGACAAAGTTAGATAAGGAAGCGAGACAGAGAGAAAGCCAGCAGATGAAGGAGAAGGCTAAGGAGAAGGACTC
ACCGAAGGAGAAGAGTGTGCGAGAGAGAGAGGTGCCGATTAGTCTAGAAGTATCCAGGACAGAAAGAGCAGAGGT
GTCCCCGAAAGGTTTGACAGACGCTGTGAAGGATGCTGGTGGTGGGACCGGTAGAGAGGCAGAAAGCAAGAGAGCT
ACGGTTCAGGTTGGGCACCACTGATGCCACTGGTTCTCTGCAAGGCGATTCCATGACAGAAACCGTAGCAGAAAA
CATCGTTACCAGTATCCTGAAGCAGTTCACTCAGTCTCCAGAGACAGAAAGCATCTGCTGATTCTTTTCCAGACAC
AAAAGTCACTTACGTGGACAGGAAAGAGCTTCTTGGGGAAAGGAAAACAAAGACTGAAATAGTTGTGGAGTCTAA
ACTGACTGAGGATGTTGATGTTTCCGATGAAGCTGGCCTGGACTACCTTTTAAAGCAAGGATATTAAGGAAGTGGG
GCTGAAAGGCAAGTCAGCCGAGCAGATGATAGGAGACATCATCAACCTCGGCCTGAAAGGGAGGGGAGGGGAGAGC
AAAGGTGCTCAACGTGGAGATCGTGGAGGAGCCCGTGAGTTATGTCAGCGGGGAGAAGCCGGAGGAGTTTTCGT
CCCATTCAAAGTGGAGGAGGTGGAAGATGTGTGCCAGGCCCTGGGGGTTGGTTAAGGAGGAGGAAGGTTATGG
AGAAAGCGATGTCACATTCTCAGTTAATCAGCATCGAAGGACCAAGCAGCCCCAGGAGAACACGACTCACGTGGA
AGAAGTGACAGAGGCAGGTGATTGAGAGGGCGAGCAGAGTTATTTTGTGTCCACTCCAGATGAACACCCCGGGGG
GCACGACAGAGATGACGGCTCGGTGTACGGGCAGATCCACATCGAGGAGGAATCCACCATCAGGTACTCTTGGCA
GGATGAAATCGTGAGGGGACTCGAAGGAGGACACAGAAGGACGGTGCAGTGGGCGAGAAGGTTGTGAAGCCCTT
GGATGTCCAGCGCCCTCTCTGGAGGGGGACCTGGGTTCCACTCACTGGAAAGAACAGCTAGAAGCGGTGAATT
TCATGCCGAACCCACAGTCATTGAAAAAGAAATTAATAACCCACGAATTCCACACCTCCATGAAGGGCATCTC
CTCCAAGGAGCCCCGGCAGCAGCTGGTGGAGGTCATCGGGCAGCTGGAGGAAACCTTCCCGAGCGCATGAGGGA
GGAGCTGTCCGCCCTCACCAGAGAGGGGCAGGGTGGGCCGGGGAGCGTTTCCGTGGATGTCAAGAAGGTCCAGGG
TGCTGGTGGCAGTTCCGTGACCTGTTGCTGAAGTCAACGTCTCACAACCTGTGGATGCCGATCGGTTAGACCT
GGAGGAGCTGAGCAAAGATGAGGCCAGTGAGATGGAGAAGGCTGTGGAGTCGGTGGTTCCGGGAGAGCCTGAGCAG
GCAACGCAGCCAGCGCCTGGCAGCCAGATGAGGAAGGTGGAGCGGAGGCCCCGGCTGCTGGCATTTCGTTTCAG
GCGTTGGGCCACCCGGGAGCTGTACATCCCTTCAGGCGAGAGCGAGGTTGCTGGTGGGGCCTCTCACAGCTCGGG
ACAGCGCACTCCCCAGGGCCAGTGTCGGCCACTGTGGAGGTCAGCAGCCCCACAGGCTTTGCCAGTCAAGGT
GCTGGAGGATGTGAGCCAGGCTGCAAGGCACATAAACTCGGCCCTCTGAAGTCTGGAGGACTGAGCGAATGTC
ATATGAAGGACCCACTGCAGAAGTGGTGGAGGTAAGTGCGGGAGGTGACCTAAGTCAGGCAGCGAGCCCCGACCGG
AGCCAGCCGGTCTGTGAGGCATGTCACGCTGGGTCCCGGTCAAAGTCCACTGTCCAGAGAAGTCATCTTCTTAGG
CCCTGCCCCCTGCTGTCCAGAGGCATGGGGCTCGCCAGAACCTGGCCCAGCAGAGTCTTCTGCAGATATGGACGG
ATCAGGGAGGCACAGCACATTTGGCTGCAGACAATTTATGCTGAAAAGGAGATTATTTTTCAGGGCCCCATTTT
TGCTGCAGGGAAGGTTGGTGATTATTTTGAACAGAAGAGTCAGTGGGTACCCAGACTTCTGTGAGGCAACTCCA
GTTAGGCCCTAAAGAAGGTTTCACTGGGCAAATCCAGTTTACAGCTCCACTTTCAGACAAGGTGGAGTTGGGTGT
CATAGGAGATTCTGTACACATGGAAGGGTTGCCAGGGAGCAGCACATCCATCAGGCACATCAGCATTGGGCCTCA
GAGGCATCAGACCACCCAGCAGATAGTTTACCATGGGCTGGTTCCCCAACTGGGGGAATCTGGTGA CT CAGAGAG
CACTGTGCACGGAGAGGGCTCAGCAGATGTGCACCAGGCCACTCACAGTCATACCTCGGGTAGACAAACCGTTAT
GACTGAAAAGAGCACCTTCCAAAGTGTGTTTTCTGAATCTCCCCAGGAGGATAGTGCAGGGGACACATCAGGGGC

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FIGURE 1005B

AGAAATGACATCGGGTGTAGCAGATCCTTTAGGCACATTTCGACTAGGTCCTACAGAAACGGAAACCTCTGAACA
CATTGCCATCCGTGGACCCGTGTCCAGAACATTTGTGCTTGCTGGTTACGCGGACTCCCCGTAGCTAGGCAAGTT
AGCAGACAGCAGCAGAACGCTAAGGCACATTGCACCAGGGCCCCAAGAACTTCGTTTACCTTTCAGATGGATGT
GAGTAACGTAGAGGCGATCCGCAGCCGGACACAGGAAGCGGGAGCTCTCGGTGTGTCTGACCGTGGTTCCTGGAG
AGACGCGGACAGTAGGAATGACCAGGCAGTTGGTGTGAGCTTTAAGGCCTCTGCTGGGGAAGGAGACCAGGCCCA
CAGAGAACAGGGCAAGGAGCAGGCCATGTTTGATAAGAAGGTGCAGCTCCAGAGAATGGTAGACCAAAGGTCGGT
GATTTTCAGATGAAAAGAAAGTTGCCCTCCTCTATCTAGACAATGAGGAGGAGGAGAATGATGGGCATTGGTTTTA
ATAAGCAGAAACATTTTGTTTTAATGGCAGCCTGTTGGCGACGTGCCAACATCCAAAGGCCCTTAACCTATTTTAA
GAGGCCGAGGGAGTCTATGAAATCTCCCCTTTTTTACTTTTTTAAAGAGTACTCCCGGCATGGTCAATTTCTTT
TATAGTTAATCCGTAAAGGTTTCCAGTTAATTCATGCCTTAAAAGGCACTGCAATTTTATTTTTGAGTTGGGACT
TTTACAAAACACTTTTTTCCCCTGGAGTCTTCTCTCCACTTCTGGAGATGAATTTCTATGTTTTGCACCTGGTCAC
AGACATGGCTTGCATCTGTTTGAAACTACAATTAATTATAGATGTCAAAACATTAACCAGATTAAAGTAATATAT
TTAAGAGTAAATTTTGCTTGCATGTGCTAATATGAAATAACAGACTAACATTTTAGGGGAAAAATAAATACAATT
TAGACTCTAAAAAGTCTTTTCAAAAAGAAATGGGAAATAGGCAGACTGTTTATGTTAAAAAATTCTTGCTAAAT
GATTTTCATCTTTAGGAAAAAATTACTTGCCATATAGAGCTAAATTCATCTTAAGACTTGAATGAATTGCTTTCTA
TGTACAGAACTTTAAACAATATAGTATTTATGGCGAGGACAGCTGTAGTCTGTTGTGATATTTACATTCTATTT
GCACAGGTTCCCTGGCACTGGTAGGGTAGATGATTATTGGGAATCGCTTACAGTACCATTTTCATTTTTGGCACT
AGGTCATTAAGTAGCACACAGTCTGAATGCCCTTTTCTGGAGTGGCCAGTTCCTATCAGACTGTGCAGACTTGCG
CTTCTCTGCACCTTATCCCTTAGCACCCAAACATTTAATTTCACTGGTGGGAGGTAGACCTTGAAGACAATGAAG
AGAATGCCGATACTCAGACTGCAGCTGGACCGGCAAGCTGGCTGTGTACAGGAAAATTGGAAGCACACAGTGGAC
TGTGCCTCTTAAAGATGCCTTTCCCAACCCTCCATTTCATGGGATGCAGGTCTTTCTGAGCTCAAGGGTGAAAGAT
GAATACAATAACAACCATGAACCCACCTCACGGAAGCTTTTTTGCACCTTGAACAGAAGTCATTGCAGTTGGGG
TGTTTTGTCCAGGGAAACAGTTTATTAAATAGAAGGATGTTTTGGGGAAGGAAGTGGATATCTCTCCTGCAGCCC
AGCACCGAGATACCCAGGACGGGCCTGGGGGGCGAGAAAGCCCCCATGCTCATGGGCCGCGGAGTGTGGACCTG
TAGATAGGCACCACCGAGTTTAAAGATACTGGGATGAGCATGCTTCATTGGATTCATTTTATTTTACACGTCAGTA
TTGTTTTAAAGTTTCTGTCTGTAAAGTGTAGCATCATATATAAAAAGAGTTTCGCTAGCAGCGCATTTTTTTTAG
TTCAGGCTAGCTTCTTTACATAATGCTGTCTCAGCTGTATTTCCAGTAACACAGCATCATCACACTGACTGTGG
CGCACTGGGGAATAACAGTCTGAGCTAGCACCCCTCAGCCAGGCTACAACGACAGCACTGGAGGGTCTTCCCT
CTCAGATTACCTGGAGGCCCTCAGACCCCAAGGTGCACGTCTCCCAGGTCTGGGAGTGGCTACCGCAGGTA
GTTTCTGGAGAGCACGTTTTCTTTCATTGATAAGTGGAGGAGAAATGCAGCACAGCTTTCAAGATACTATTTTAAA
AACACCATGAATCAGATAGGGAAAGAAAGTTGATTGGAATGGCAAGTTTAAACCTTTGTTGTCCATCTGCCAAAT
GAACTAGTGATTGTCAGACTGGTATGGAGGTGACTGCTTTGTAAGGTTTTGTCGTTTCTAATACAGACAGAGATG
TGCTGATTTTGTTTTAGCTGTAAACAGGTAATGGTTTTTGGATAGATGATTGACTGGTGAGAATTTGGTCAAGGTG
ACAGCCTCCTGTCTGATGACAGGACAGACTGGTGGTGGGAGTCTAAGTGGGCTCAGTTTGTATGTCAGTGTCTGG
GCTCATGACTTGTAAATGGAAGCTGATGTGAACAGGTAATTAATATTATGACCCACTTCTATTTACTTTGGGAAA
TATCTTGGATCTTAATTATCATCTGCAAGTTTCAAGAAGTATTCTGCCAAAAGTATTTACAAGTATGGACTCATG
AGCTATTGTTGGTTGCTAAATGTGAATCACGCGGGAGTGAGTGTGCCCTTCACACTGTGACATTGTGACATTGTG
ACAAGCTCCATGTCCCTTTAAAATCAGTCACTCTGCACACAAGAGAAATCAACTTCGTGGTTGGATGGGGCCGGAA
CACAACCACTCTTTTTGTATTTATTGTTACTGAGACAAAACAGTACTCACTGAGTGTTTTTTCAGTTTCTACTGG
TGGTTTTGATATTGTTTGTTTAAGATGTATATTTAGAATGACATCATCTAAGAAGCTGATTTTGCTAAACTCCTG
TTCCCTACAATGGGAAATGTCACAAGAATGTGCAAAAATAAAAATCTGAGG

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FIGURE 1006A

TTTAAACTGTGCTTTCTAAGCACAGTCAGGTAGCAAAAAGTAATAAAAAGGATGGTTGAACAAGTTTTCTTGTATG
TTCCAGGATATGTTTGGGACTTTTTCTTTGTTTATTATATGAGTTGTTCCCTTTGAAATTAAAGCTATTTTGTAGG
TTTTGTGGGACATAATTTGATAAGTAGAGTTAATTAAATTTCTTCTGGAAGAGATCTAAATCTTATTCTTAGTG
AGAGACTGTAGTTAAAAGGAAGGCTTTTAGAACTTGGGTTCAAGGAAGATGGAGATGCGTCGGAAGCTCTTTGGC
GGGGGTGAGGAAGTTTCAGAAAGTGTGCATTTTCTTCTGGCATTTAGGTCTTGTCCGTGTGATTTGGTGGTGCTT
GGGTCATAAGCCTGATTAAAATTCAGGGACATGTACCACGGCGGCCAAAGCGGAATTAATTTTTTATATGGGGA
CTGGAGCGCTGAAAAGTTGTTCTGACCAGGCTCTAATGAGAAATTCCTCTCTCCCCAGGTTATGAAGACAGTAT
GGAGTTTCCAGACCATAGTAGACATTTGCTACAGTGTCTGAGCGAGCAGAGACACCAGGGTTTTCTTTGTGACTG
CACTGTTCTGGTGGGAGATGCCAGTTCCGAGCGCACCAGCTGTACTGGCTTCATGCAGCATGTATTTCCACCT
CTTTTACAAGGACCAGCTGGACAAAAGAGACATTGTTTCATCTGAACAGCGACATTGTTACAGCCCCCGCTTTTCGC
TCTCCTGCTTGAATTCATGTATGAAGGAACTCCAGTTCAAAGACTTGCCATTGAAGACGTGCTAGCAGCTGC
CAGTTATCTCCACATGTATGACATTGTCAAAGTCTGCAAAAAGAAGCTGAAAGAGAAAGCCACCACGGAGGCAGA
CAGCACCAAAAAGGAAGAAGATGCTTCAAGTTGTTTCGGACAAAGTCGAGAGTCTCTCCGATGGCAGCAGCCACAT
AGCAGGCGATTTGCCCAGTGATGAAGATGAAGGAGAAGATGAAAAATTGAACATCCTGCCCAGCAAAAAGGGACTT
GGCGGCCGAGCCTGGGAACATGTGGATGCGATTGCCCTCAGACTCAGCAGGCATCCCCAGGCTGGCGGAGAGGC
AGAGCCACACGCCACAGCAGCTGGAAAAACAGTAGCCAGCCCCCTGCAGCTCAACAGAGTCTTTGTCCAGAGGTC
TGTCACCTCCGTGAGGGATTTCGGCAGATGTTGACTGTGTGCTGGACCTGTCTGTCAAGTCCAGCCTTTCAGGAGT
TGAAAACTGAACAGCTCTTATTTCTCTTACAGGACGTGCTGAGAAGCAACCTGGTGCAGGTGAAGGTGGAGAA
AGAGGCTTCTGTGATGAGAGTGATGTTGGCACTAATGACTATGACATGGAACATAGCACTGTGAAAGAAAGTGT
GAGCACTAATAACAGGGTACAGTATGAGCCGGCCCATCTGGCTCCCCTGAGGGAGGACTCGGTCTTGAGGGAGCT
GGACCGGGAGGACAAAGCCAGTGATGATGAGATGATGACCCAGAGAGCGAGCGTGTCCAGGTGGAGGGAGGCAT
GGAGAGCAGTCTGCTCCCCCTACGTCTCCAACATCCTGAGCCCCGCGGGCCAGATCTTCATGTGCCCCCTGTGCAA
CAAGGTCTTCCCCAGCCCCCACATCCTGCAGATCCACCTGAGCACGCACCTCCGCGAGCAGGACGGCATCCGCAG
CAAGCCCGCCGCGCATGTCAACGTGCCACAGTCTCGCTGTGTGGGAAGACTTTCTCTTGCATGTACACCCTCAA
GCGCCACGAGAGGACTCACTCGGGGGAGAAGCCCTACACATGCACCCAGTGCGGCAAGAGCTTCCAGTACTCGCA
CAACCTGAGCCGCCATGCCGTGGTGACACCCGCGAGAAGCCGCACGCCTGCAAGTGGTGCAGCGCAGGTTAC
GCAGTCCGGGGACCTGTACAGACACATTTCGCAAGTTCCACTGTGAGTTGGTGAACCTCTTGTCCGCTCAAAAGCGA
AGCACTGAGCTTGCCTACTGTACAGAGACTGGACCTTAGAAGATAGCTCTCAAGAACTTTGGAAATAATTTTATAT
ATATATAAATAATATATATATATATACATATATATAAATAGATCTCTATATAGTTGTGGTACGGTCTAAAAGCAG
TCTTGTTTCTGGAATAAAAAGTTGGGATATTAATTTGTTTTTGCACCTTTAGAATAGCATGAGAATCTCACTAA
TTTAGCATTCTGATAAAAGAACTTTAGAGCAAGTCAGAATAGAGAGGTGTTTTTCTTTTGGGGGATAGGGGAA
GTAAGCCAATAAGAACCCTTTTAAACAAATCGTCCTGTACAAAATGCTTTTCATATGGCTTAATTTTGTCAACACT
GCATTGTCTTTTGTAGCTCTTTTTTCCCCCAACAAAGTTTTTTTTGTTTTTTTTTTTTTAAAGTAGAAATT
CCCTCCAGTTTTATTAGCCTCTTTATATGTCTCAAATTGCATGAATTTTTTCTGGCTGTTGGAAACCTGAATGCT
TTTAGACCCAAATGGAAAATTTCTGAAATGCTGGATTATCTATTTTTTAAACAAGCAGTTGACTTAAACTTTCTG
TGGCAACTTCTGGTTTTCTGACAGTTCCAGTGAGAGAAATGCTGAAAGTACACTGGGATCACTGGGACACTGTC
TTATGAAGGTTTGCTTGGGATGAAAAAGGATATTGCAGCTTACAGCAGTGTGAAGTGTGTGTTTAAAAATGTGAA
TTACTGTTATTGTATACTGTAATTGATTACATGGGCTGGGGGGGTGTCAAAGAAGTGTGACAGGTTGTGTTGATGC
TCTTAGTTGAGTCTTGAAAAGTAAATATTAACGCTACAGAAATGCATGAGTTTTCAATATATTTTTTGTCTTTGT
TTGCATTGTATAACTTTAACGAGTGAGTTTTAAATATTTTAAATTTCTTAGAAAAATAGCACCATTGGAAAAAA
AAACTGGTGTATGAAGAACGTAAATGCAGTGTTTTTATTTTTATTTTATATAATTTAAATTGACTTTCCCACTG
TCTTTAAGTTGAAACTGTTAAGCTGAATAAAAACCTTAAGCTGCAAAATGATAACTTCGCTACATAACAAGGAAAA
TATAAATGTTTACAAACAGCTTAAAGATTGTCATGTGCAGTGTGCATTTATAACAACTTCTAATTGCACAAAAC
CCATGCCAGCTCAGAGTTTAGGTGTACACATTTACCCAGTTGAGCGTTCTTAGAATAACTACTGCACAAGTTGAC
AATAGGTCGTTCTCTCTTTTTTTTTTGTGTTGCTCCCTTTTTCTTTTTCTCCCCCTCCTCCTTACCCTCCCTCCTT
ACTCTCCCCCCCCACCACCACCCTCCACCCCAACTCATGAAAAGATTCTATGGACTGAAAAAGCCCCAGGCTGA
AAGGACTGGACTGCCTTGATTGACATGGGGAAGGGGGTTAGTAGACTATGTGGATTGCGGCAGCAGAGGCTGCAG
CCTAACGTGTGGTTTTAATGACCAGCACGCAAGGCAAAAGCATTTTGCACAGTGTGTTTTCTGTCTTGCAC

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FIGURE 1007

MEFPDHSRHLQCLSEQRHQGFCDCTVLVGDAQFRAHRAVLASCSMYFHLFYKDQLDKRDIVHLNSDIVTAPAF
ALLEFMYEGKLQFKDLP IEDVLAAASYLHMYDIVKVCKKKLKEKATTEADSTKKEEDASSCSDKVESLSDGSSH
IAGDLPSDEDEGEDEKLNILPSKRDIAAEPGNMWMRLPSDSAGIPQAGGEAEPHATAAGKTVASPCSSSTESLSQR
SVTSVRDSADVDCVLDLSVKSSLSGVENLNSSYFSSQDVLRNLVQVKVEKEASCDSDVGTNDYDMEHSTVKES
TNNRVQYEPAPHLAPLREDSVLRELDREDKASDDEMTPESERVQVEGGMESLLPYVSNILSPAGQIFMCPLC
FPSPHILQIHLSTHFREQDGIRSKPAADVNVPTCSLCGKTFSCMYTLKRHERTHSGEKPYTCTQCGKSFQYS
LSRHAVVHTREKPHACKWCERRFTQSGDLYRHIRKFHCELVNSLSVKSEALSLPTVRDWTLEDSSQELWK

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FIGURE 1008

GGCGTAAACCACTGCACGCAGCCTACCCTCTGCCTTTTAAAGATGATGATTATTTATTTAATTTTTGCCATCATTTGG
TGCTTCCACCTTCCCTGCGAAGGAAATTCAGAGCCTGTATTTAAGCTACCTAGGCTTTTACACTCCCTTTATTGCC
TTTCCAAATAGTATCTCAATTTGGTGTACTCTTAGTGTCCTATACCTCTTGGAACGAAAGAGGGCCCAACCTACAA
CTAAGAAGGGACAAACCTTGAACCTAAGTAAGACCTTACACACCCAGAAAGAACTGGGGCCCTCCTTCTTCAGGG
ACAATGCAGTAGCCACTTGGCTTGTGGAATTTACTGAAGGCTATTTTCTGTAACTTGCTAGTTAACTTAGTTTTG
TATTTTCAGGCAGAGGTGCGCTCTGTAATGTTGGGCCTTTGACTTCACAGTACTGGAGAGCTGTTTCACACAGATGT
TTAGACCTTTCTCTCTCTCTCTCTTTTCTTCTTTCTCAACAACCTCTTTCACAGAGGCAGTCATTTTGAAAGGTTG
AAATATTTGGCCTTTTACCAAAGAGCTTTTTTTTTTCTTAAAGCAAAATCCTTTCAGAAAGAAACAAATGGGGAAGG
GCAGATTAAGAATGCATATGTCCCAATCCACTTCTATAGGAGTTTAAATCATATTCACATGAGTAAAATGATGGAA
GAACTCTTTAAGGTAATCCTTTGGGATAAAGGATCCTGGGAAGTTCTCTCAGGTAAAGAAAGCTTACAGCAGATT
TGTAATATATGTCTGGAGAGCTATTTATAAGAAATTTAAGAGGATTGTTTTGTTTTCTTTTATTAAAGATTTAAG
CCTTTTTTACTTTGCAAAAAGAAAACCTACAAAAGTTTTATAGATATAACTTTGCTAATTTTTTAACTTTTTCTGAA
ACGATTAGCTGTAGCCAAATTATGTGGTTACGTTTTGCTACATTAGAATTTGAAAATGCAATATGTGTGGTAAAT
CTACTGTTTTGAAATTTATAATGGTCTCTGATATGATTGCAATTTTGGTAACTTTTGAAAGTTATTTTCCCCCTTT
AGTCATGGATTTCTATTTGTTTTTTAATGTTAATTTTTCTAGAAAGCATCTGAATTGACTAGGCTTTTTCTATAT
AAAAAACTCAAAACTTGTTAACTCTGTACTTTAATAAAATTTAAATTTAAACTGTGTTGTTTTTTCTCTTCTG
CTAGATACATATATAATTAAAGTACTCAAGTTAGTTGTTTTGCAGAGATGTTGCCTTCAGATGTTAATCAGGTCT
CTCAAGTTTTCATGGAGTCTATGCTGATCCTTTAATTGACAAATAAAAGATATATATCTGTGGTGTGCAAC

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FIGURE 1009

GVNHCTQPTLCLFKMMYLFNECHHWCFNFLRRKFQSLYLSYLGFYTPFIAFPNSISFGVL

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FIGURE 1010A

ACAATGTGGTCCCGAAGCGGCCAGCGCCGGGAGCTGCAGCGCTGAGACCCCCAGCCCGCCCCCTCGGGCTCCCGG
CCGGGGCCCCATCATGTTCTCCAGGAAGAAACGAGAGCTCATGAAAACCCCTTCCATCTCGAAAAAGAACCGCGC
GGGAAGCCCCAGCCCGCAGCCCTCGGGGGAGCTGCCAGGAAGGATGGGGCTGACGCGGTGTTCCCGGACCAAG
CCTGGAGCCGCCCCTGGGTCCCTCGGGCGTCAAGGCCACAGGGACCCTCAAGCGGCCACCAGCCTGAGCCGCCA
CGCCAGCGCGGTGGCTTCCCCCTGTGGGTGCTGCCTCCTGGACACTGGGCCGGAGCCACCAGGAGCCACTGAC
AGCCGCCAGCCCGGGCGAGCTGCCACCGAGGGTGCCGGCCCGGACGTCGTCGAGGACATCTCCCATCTGCTGGC
GGACGTGGCCCGCTTCGCTGAGGGCCTTGAGAACTTAAGGAGTGTGTGTTGCGTGACGACCTCCTTGAGGCCCG
CCGCCCCGGGGCCACGAGTGCCCTGGGTGAGGCTCTGCGTGTATGCATCAGATCATCTCCAAGTACCCGCTGCT
GAACACCGTGAGAGCGCTCACCGCAGCCGGCACCCCTCATTGCCAAGGTCAAAGCCTTCCATTATGAGAGCAACAA
TGATCTGGAGAAACAGGAGTTCGAGAAGGCCCTGGAGACGATTGCTGTGGCCTTCAGTAGCACAGTGTCCGAGTT
CCTCATGGGTGAAGTGGACAGCAGCACCCCTCCTAGCAGTGCCCTCCTGGGGACTCGAGCCAGTCCATGGAAGCCT
GTATGGACCGGGCAGTGAGGGCACGCTCCCAGCCTGGAAGACTGTGACGCCGGCTGCCCTGCCCGCCGAGGAGGT
GGACGTGCTGCTACAGCGCTGTGAGGGGGGCGTGGATGCCGCACTGCTGTATGCCAAGAACATGGCCAAGTACAT
GAAGGACCTCATCAGCTACCTGGAGAAGCGGACGACGCTGGAGATGGAGTTTGCCAAGGGCCTGCAGAAGATCGC
TCACAACTGCAGACAGAGCGTCATGCAGGAGCCCCACATGCCGCTCCTGTCCATCTACTCGCTGGCCCTGGAGCA
GGACCTGGAGTTGGGCCACAGCATGGTGACGGCGGTGGGCACCTTGACAGCCAGACCTTCATGCAGCCCCCTGAC
CCTGCGGCGGCTTGAACACGAGAAGCGCAGGAAGGAGATCAAGGAGGCCTGGCACCGTGCCAGAGGAAGCTGCA
AGAGGCGGAGTCCAACCTGCGCAAGGCCAAGCAGGGTTACGTGCAGCGCTGCGAGGACCACGACAAGGCTCGCTT
CCTCGTGGCCAAGGCGGAGGAGGAGCAGGCTGGCAGCGCGCCGGGAGCAGGCAGCACGGCCACCAAGACCCTGGA
CAAGCGGCGGCGGCTGGAGGAGGAGGCCAAGAACAAGGCGGAGGAAGCTATGGCCACCTACCGCACCTGCGTGGC
CGACGCGAAGACGCAGAAGCAGGAGCTGGAGGATACCAAGGTGACGGCGCTGCGGCAGATCCAGGAGGTATCCG
GCAGAGCGACCAAAACCATCAAGTCGGCCACGATCTCCTACTACCAGATGATGCATATGCAGACGGCGCCGCTGCC
CGTGCACTTCCAGATGCTGTGTGAGAGCAGCAAGCTGTATGACCCAGGCCAGCAGTACGCCTCCACGTCGCGCA
GCTGCAGCGGGACAGGAGCCCGATGTGCACTACGACTTTGAGCCCCACGTCTCCGCCAACGCCTGGTCCCCCGT
CATGCGTGCCCGGAAGAGCAGCTTCAACGTGAGTGATGTGGCGCGGCCGGAGGCTGCCGGGAGCCCCCAGAAGA
AGGCGGGTGCACTGAGGGCACACCTGCCAAGGACCACAGGGCCGGGCGAGGACACCAGGTTTACAAGTCATGGCC
GCTCTCGATCTCAGACTCGGACAGTGGGCTGGACCCCGGCCCTGGCGCAGGGGACTTTAAGAAGTTCGAGCGGAC
GTCATCCAGTGGTACCATGTGCTCCACGGAGGAGCTGGTGGACCCAGACGGTGGAGCCGGGGCTTCAGCCTTTGA
GCAGGCTGACCTCAACGGCATGACCCCGAGCTGCCGGTGGCCGTGCCAGTGGACCGTTCCGCCACGAGGGGCT
GTCCAAGGCGGCGCTACTCACCGGCTCCGGAAGCTCCGCACGCCCGCCAAGTGCCGCGAGTGCAACAGCTACGT
CTACTTCCAGGGTGTGAGTGTGAAGAGTGTGCTGCCTGGCCTGCCACAAGAAATGTCTGGAGACGCTGGCCATACA
GTGCGGGCACAAGAAGCTGCAAGGCCGCTGCAGCTGTTGGCCAGGACTTCAGCCACGCGGCGCCGACGCGCCCC
CGACGGCGTGCCCTTCATCGTCAAGAAGTGCGTCTGCGAGATCGAGCGCGGGCGCTGCGCACCAAGGGCATCTA
CCGGGTCAATGGGGTAAAGACACGCGTGGAGAAGCTGTGCCAGGCCTTCGAGAACGGCAAGGAGCTGGTCGAGCT
GTCGAGGCCTCGCCCCACGACATCAGCAACGTCCTCAAGCTCTACCTGCGTCAGCTTCCCGAGCCGCTCATCTC
CTTCCGCCTCTACCACGAGCTCGTAGGGCTGGCCAAGGACAGCCTGAAGGCAGAGGCCGAGGCCAAGGCGGCGTC
CCGGGGCCGGCAGGACGGCTCGGAGAGCGAGGCAGTGGCGGTGGCCCTGGCAGGTGGGCTGCGGGAGCTCCTGCG
GGACCTGCCGCTGAGAACC GGCCCTCGCTGCAGTACCTGCTGCGTCACCTACGCAGGATCGTGGAGGTGGAGCA
GGACAACAAGATGACCCCCGGGAACCTGGGCATCGTGTTCGGGCCACGCTGCTTCGGCCACGGCCCCACCGAGGC
CACCGTGTCCTCTCCTCCCTGGTGGATTATCCCCATCAGGCCCGCGTCATCGAGACTCTCATCGTCCACTACGG
CCTGGTCTTCGAGGAGGAGCCGGAGGAGACCCCGGGGGCCAGGACGAGTCATCCAACCAGCGAGCTGAGGTAGT
CGTCCAGGTGCCGTACCTGGAGGCGGGCGAGGCGGTGGTCTACCCGCTGCAGGAGGCGGCGGCGGACGGGTGCAG
AGAATCCCGAGTTGTGTCCAACGATTTCGACTCGGACCTAGAGGAGGCCTCCGAGCTGCTGTCTCATCGGAGGC
CAGTGCCCTGGGCCACCTCAGCTTCTGGAGCAGCAGCAGAGCGAGGCCAGCCTAGAGGTGGCTTCTGGCAGCCA
CAGCGGCAGTGAGGAGCAGCTGGAGGCCACAGCCGGGAGGACGGGGACGGGGACGAGGACGGCCCGGCCAGCA
GCTCTCAGGATTCAACACCAACCAGTCCAACAACGTGCTGCAGGCCCCACTGCCCCCATGAGGCTCCGTGGCGG
GCGGATGACACTGGGCTCCTGCAGGGAAGGCAGCCGGAATTCGTGTGAGCTGGGGTGGGGCTGGGACCACAGGT
GGCTTCTCTCTTGCTGCTCCTGTCCCTCCAGCACGTCCCCTGCACCACGGCATAGCTTAGGTGCGCCGTCCTGG

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FIGURE 1010B

GGTCGCTGCCGAGAGCGCCTGGACTTCGACGTCCCACCAGCGGGCGCCTCCTCCCAGAGGCTTCCAGGAGCACGA
GGGCCTTGCGGCACAGGACTGTGCCCTGTGCTGTCCCCTGCACCCCGGCTCAGCTGAGCTGGGGAACACTGCTGT
CGTGTGAAGTCACAGTGGCCTTGTTGGTGCCACAGGGCTGTGTGGATGGAGGAAGCTGTCCCTGCCCAGTGCAT
CCCCAGGTCATCACGGGGACGCAGGAGGCAGGCCCTGCCCTGCCCTCTCCTCACAGGTCTGTTGCAGGGACTCC
AGAAACCATTCTGGGAGCCGTGGATGGGGGCGGAGCTGGGGTTTGGTGCAGTTTCCAGGGTGCAGTACAGCAGGG
CCTGAATACTGGCCCTGGACTCCCTTTTCCAGAACACCAGGTGTGGCCACCTGGGGCTCAGGTACACAGTGGGGT
CTCTCGGAAGCCACCGTGTGGTCTTTTACAGGCACGTTTATTTTGCTGAAATAAAAAGTTTTTAATCGGG

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FIGURE 1011

QCGPEAASAGSCSAETPSPPPRAPGRGPIMFSRKKRELMKTPSISKKNRAGSPSPQPSGELPRKDGA VFPGPS
LEPPAGSSGVKATGTLKRPTSLSRHASAAGFPLSGAASWTLGRSHRSPLTAASPGELPTEGAGPDVVEDISHLLA
DVARFAEGLEKLKECVLRDDLLEARRPRAHECLGEALRVMHQIISKYPLLNTVETLTAAGTLIAKVKA FHYESNN
DLEKQEFEKALETIAVAFSSTVSEFLMGEVDSSTLLAVPPGDSSQSMESLYGPGSEGTPPSLED CDAGCLPAEEV
DVLLQRCEGGVDAALLYAKNMAKYMKDLISYLEKRRTTLEMEFAKGLQKIAHNCRQSVMQEPHMP LLSIYSLALEQ
DLEFGHSMVQAVGTLQTQTFMQPLTLRRLEHEKRRKEIKEAWHRAQRKLQEAESNLRKAKQGYVQRCED HDKARF
LVAKAEQQAGSAPGAGSTATKTLDKRRRLEEEAKNKAEEAMATYRTCVA DAQTQKQELEDTKVTALRQIQEVIR
QSDQTIKSATISYYQMMHMQTAPLPVHFQMLCESSKLYDPGQQYASHVRQLQRDQEPDVHYDFEPHVSANAWSPV
MRARKSSFNVSDVARPEAAGSPPEEGGCTEGTPAKDHRAGRGHQVHKS WPLSISDSDSGLDPGPGAGDFKKFERT
SSSGTMSSTEELVDPDGGAGASAFEQADLNGMTPELPVAVPSGPFRHEGLSKAARTHRLRKLRTPAKCRECNSYV
YFQGAECCECCLACHKKCLET LAIQCGHKKLQGRQLQFGQDFSHAARSAPDGV PFIKKCVCEIERRALRTKGIY
RVNGVKTRVEKLCQAFENGKELVELSQASPHDISNVLKLYLRQLPEPLISFRLYHELVGLAKDSLKAEAEAKAAS
RGRQDGSESEAVAVALAGRLRELLRDLPPENRASLQYLLRHLRRIVEVEQDNKMTPGNLGIVFGPTLLRPRPTEA
TVSLSSLVDYPHQARVIETLIVHYGLVFEEPEETPGGQDESSNQRAEVVQVPYLEAGEAVVYPLQEAAADGCR
ESRVVSNDSDSDLEEASELLSSSEASALGHLSFLEQQQSEASLEVASGSHSGSEEQLEATAREDGDGEDGPAQQ
LSGFNTNQSNNVLQAPLPPMRLRGGRMTLGSCRERQPEFV

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FIGURE 1012

GCCACGAGGGGAGAACTAGTCTCAGTTTTTTTTTTTTTTTTTTAGGTGAGAAAGCCAGCTGACTTTATTGCTCTG
GGGGCAGGGGGCTCAGGAGCTCTTGGTGGGGCGGGTCCGCTTCCTCTTCACCATCACAGGCTTCTGGCTGCGCAG
GATGGCGCTGGCCCTGCGGATGGCTGCCATGCGCAGGTTCGGGGCGGTACTTGTTCCTGCGGATCATGTGTCTGAT
GCTGCTGAGCGTGGCGCGAGCATTCTTGTGATGGTGGTCCGCACATAGGAGGTGGCAGGCTTCCGCTGGCCGGA
CTTCGCTTAATGACCACCACGACACCTTTGCCGTCGGCTGCCGGCTCCACGCCCACAGTCTTGCGGTGAATCAG
CTTGTAGCGGAAGGAATTGCGGGCCTTCAAGTTATTGGGCTCAGTGCTGTAGGTCTGCTTATTCTCTTGAT
CTGAAACTGGAGCAGTTCCGCACGACCATCCATTGCAGATGCGCAGACATGGCGGGCGGCTCCCTTCGCAGCGGC
GACCTGACCTTCAGCGCCTCGGCTCCAGCGCCATGGCGCCCTCCAGGAAGTTCTTCGTTGGGGGAAACTGGAAGA
CTACGGGCGGAAGCAGAGTCTGGGGGAGCTCATCGGCACCTCTGAACGCGGCCAAGGTGCCGGCCGACACCGAGG
CTTTGTGCTCCCCCTACTGCCTATATCGACTTCGCCCCGCGAGAAGCTAGATCCCAAGATTGCTGTGGCTGCGC
CTACTGCTACAAAGTGACTAATGGGGCTTTTACTGGGGAGATCAGCCCTGGCATGATCAAAGACTGCGGAGCCA
CTGGTGGTCTTGGGGCACTCAGAGAGAAGGCATGTCTTTGGGGAGTCAGATGAGCTGATTGGGCAGAAAGTGG
CTATGCTCTGGCAGAGGGACTCGGAGTAATCGCCTGCATTGGGGGAGAAGCTAGATGAAAGGGAAGCTGGCATCA
CTGAGAAGGTTGTTTTCGAGCAGACAAAGGTCATCGCAGATAACGTGAAGGACTGGAGCAAGGTCGTCCTGGCCT
ATGAGCCTGTGTGGGCCATTGGTACTGGCAAGACTGCAACACCCCAACAGGCCCAGGAAGTACACGAGAAGCTCC
GAGGATGGCTGAAGTCCAACGTCTCTGATGCGGTGGCTCAGAGCACCCGTATCATTATGGAGGCTCTGTGACTG
GGGCAACCTGCAAGGAGCTGGCCAGCCAGCCTGATGTGGATGGCTTCCTTGTGGGTGGTGCTTCCCTCAAGCCCG
AATTCGTGGACATCATCAATGCCAAACAATGAGCCCCATCCATCTTCCCTACCCTTCCCTGCCAAGCCAGGGACTA
AGCAGCCCAGAAGCCAGTAAGTGCCTTTCCCTGCATATGCTTCTGATGGTGTCTGCTCCTTCCCTGTGGCC
TCATCCAAACTGTATCTTCCCTTTACTGTTTATATCTTCACCCTGTAATGGTTGGGACCAGGCCAATCCCTTCTCC
ACTTACTATAATGGTTGGAATAAACGTCACCAAGGTGGCTTCTCCTTGGCTGAGAGATGGAAGGCGTGGTGGGA
TTTGCTCCTGGGTTCCCTAGGCCCTAGTGAGGGCAGAAGAGAAACCATCCTCTCCCTTCTTACACCGTGAGGCCA
AGATCCCCTCAGAAGGCAGGAGTGCTGCCCTCTCCCATGGTGCCCGTGCCCTCTGTGCTGTGTATGTGAACCAACC
ATGTGAGGGAATAAACCTGGCACTAGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1013

MAPSRKFFVGGNWKMNQRKQSLGELIGTLNAAKVPADTEVVCAPPTAYIDFARQKLDPKIAVAAQNCYKVTNGAF
TGEISPGMIKDCGATWVVLGHSERRHVFGESEDELIGQKVAHALAEGLGVIACIGEKLDEREAGITEKVVFQTKV
IADNVKDWSKVVLAYEPVWAIGTGKTATPQQAQEVHEKLRGWLKSNVSDAVAQSTRIIYGGSVTGATCKELASQP
DVDGFLVGGASLKPEFVDIINAKQ

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FIGURE 1014A

ATGCCAAGTATGGAGAACATGAAGCCAGTCTTGACAATGGGCAGAACGAATTCAGTGATATCATTAAAGTCCAGA
TCTGATGAACACAATGACGTACAGAAGAAAACCTTTACCAAATGGATAAATGCTCGATTTTCAAAGAGTGGGAAA
CCACCCATCAATGATATGTTACAGACCTCAAAGATGGAAGGAAGCTATTGGATCTTCTAGAAGGCCCTCACAGGA
ACATCACTGCCAAAGGAACGTGGTTCCACAAGGGTACATGCCTTAAATAACGTCAACAGAGTGCTGCAGGTTTTA
CATCAGAACAATGTGGAATTAGTGAATATAGGGGGAAC TGACATTGTGGATGGAAATCACAAACTGACTTTGGGG
TTACTTTGGAGCATCATTTTGCCTGCGCAGGTGAAAGATGTCATGAAGGATGTCATGTCGGACCTGCAGCAGACG
AACAGTGAGAAGATCCTGCTCAGCTGGGTGCGTCAGACCACAGGCCCTACAGCCAAGTCAACGTCTCTCAACTTC
ACCACCAGCTGGACAGATGGACTCGCCTTTAATGCTGTCTCTCCACCGACATAAACCTGATCTCTTCAGCTGGGAT
AAAGTTGTCAAAATGTCACCAATTGAGAGACTTGAACATGCCTTCAGCAAGGCTCAAACCTATTTTGGGAATTGAA
AAGCTGTTAGATCCTGAAGATGTTGCCGTTCCGGCTTCCTGACAAGAAATCCATAATTATGTATTTAACATCTTTG
TTTGAGGTGCTACCTCAGCAAGTCACCATAGACGCCATCCGTGAGGTAGAGACACTCCCAAGGAAATATAAAAAA
GAATGTGAAGAAGAGGCAATTAATATACAGAGTACAGCGCTGAGGAGGAGCATGAGAGTCCCGGAGCTGAAACT
CCCAGCACTGTCACTGAGGTGACATGGATCTGGACAGCTATCAGATTGCGTTGGAGGAAGTGCTGACCTGGTTG
CTTTCTGCTGAGGACACTTTCCAGGAGCAGGATGATATTTCTGATGATGTTGAAGAAGTCAAAGACCAGTTTGCA
ACCCATGAAGCTTTTATGATGGAAGTCACTGCACACCAGAGCAGTGTTGGGCAGCGTCTGTCAGGCAGGCAACCAA
CTGATAACACAAGGAACCTCTGTCAGACGAAGAAGAATTTGAGATTGAGGAACAGATGACCTGCTGAATGCTAGA
TGGGAGGCTCTTAGGGTGGAGAGTATGGACAGACAGTCCCGGCTGCACGATGTGCTGATGGAAGTGCAGAAGAAG
CAACTGCAGCAGCTCTCCGCTGGTTAAACACTCACAGAGGAGCGCATTCAGAAGATGGAAACTTGCCCCCTGGAT
GATGATGTAAATCTCTACAAAAGCTGCTAGAAGAACATAAAAGTTTGCAAAGTGATCTTGAGGCTGAACAGGTG
AAAGTAAATTCATAACTCACATGGTGGTCAATTGTTGATGAAAACAGTGGTGAGAGCGCTACAGCTATCCTAGAA
GACCAGTTACAGAAACTTGGTGAGCGCTGGACAGCAGTATGCCGTTGGACTGAAGAACGCTGGAATAGGTTACAA
GAAATCAATATATTGTGGCAGGAATTATTGGAAGAACAGTGCTTGTGAAAGCTTGGTTAACCGAAAAAGAAGAG
GCTTTAAATAAAGTCCAGACAAGCAACTTCAAAGACCAAAAGGAAGTAAAGTGTGAGTGTTCGACGTCTGGCTATT
TTGAAGGAAGACATGGAAATGAAGCGTCAAACATTGGATCAGCTGAGTGAGATTGGCCAGGATGTGGGACAATTA
CTTGATAATTCCAAGGCATCTAAGAAGATCAACAGTGACTCAGAGGAAGTCAAGATGGGATTCTTTGGTT
CAGAGACTAGAAGATTCTTCAACCAGGTGACTCAGGCTGTAGCAAAGCTGGGGATGTCTCAGATTCTCTCAGAAG
GACCTTTTGGAGACTGTTCTGTGAAGAGAACAAGCAATTACAAAAAATCTAAGCAGGAAGTGCCTCTCTCTCT
CCCCCAAAGAAGAGACAGATCCATGTGGATATTGAAGCTAAGAAAAAGTTTGATGCTATAAGTGCAGAGCTGTTG
AACTGGATTTTGAATGGAAAAGTGCCTTCAAGACACAGAGATAAAAGAGTATATGAAGATGCAAGACACTTCC
GAAATGAAAAAGAAGTTGAAGGCATTAGAAAAAGAAGAGAGAAAGAAATCCCAGAGCAGATGAATTAACCAA
ACTGGACAAATCCTTGTGGAGCAAATGGGAAAAGAAGGCCCTTCTACTGAAGAAATAAAAAATGTTCTGGAGAAG
GTTTCATCAGAATGGAAGAATGTATCTCAACATTTGGAAGATCTAGAAAGAAAGATTGAGCTACAGGAAGATATA
AATGCTTATTTCAAGCAGCTTGATGAGCTTGAAAAGTTCATCAAGACAAAGGAGGAGTGGGTAAAACACACTTCC
ATTTCTGAATCTTCCCGGCAGTCTTGCCAAGCTTGAAGGATTCTGTGTCAGCGGGAATTGACAAATCTTCTTGGC
CTTCAACCCCAAATTTGAAATGGCTCGTGCAAGCTGCTCGGCCCTGATGTCTCAGCCTTCTGCCCCAGATTTTGTG
CAGCGGGGCTTCGATAGCTTTCTGGGCCGCTACCAAGCTGTACAAGAGGCTGTAGAGGATCGTCAACAACATCTA
GAGAATGAACTGAAGGGCCAACTGGACATGCATATCTGGAACATTGAAAACACTGAAAGATGTGCTAAATGAT
TCAGAAAATAAGGCCAGGTGCTCTGAAATGCTCTTAATGATCTTGCCAAGGTGGAGAAGGCCCTGCAAGAAAAA
AAGACCTTGATGAAATCCTTGAGAATCAGAAACCTGCATTACATAAACTTGAGAAGAAACAAAGGCTCTGGAG
AAAAATGTTTCATCCTGATGTAGAAAAATTATATAAGCAAGAATTTGATGATGTGCAAGGAAAGTGGACAAAGCTA
AAGGTCTTGGTTTCCAAAGATCTACATTTGCTTGAGGAAATTGCTCTCACACTCAGAGCTTTTGAGGCCGATTCA
ACAGTCATTGAGAAGTGATGGATGGCGTGAAAGACTTCTTAATGAAACAGCAGGCTGCCCAAGGAGACGACGCA
GGTCTACAGAGGCAGTTAGACCAGTGCTCTGCATTTGTTAATGAAATAGAAACAATTGAATCATCTCTGAAAAAC
ATGAAGGAAATAGAGACTAATCTTGAAGTGGTCCAGTTGCTGGAATAAAAACTTGGGTGCAGACAAGACTAGGT
GACTACCAAACCTCACTGGAGAACTTAGCAAGGAGATCGCTACTCAAAAAAGTAGGTTGTCTGAAAGTCAAGAA
AAAGCTGCGAACCTGAAGAAAGACTTGGCAGAGATGCAGGAATGGATGACCCAGGCCGAGGAAGAATATTGAGAG
CGGGATTTTGAGTACAAGTCACCAGAAGAGCTTGAGAGTGCTGTGGAAGAGATGAAGAGGGGCAAAAGAGGATGTG
TTGAGAAGGAGGTGAGAGTGAAGATTCTCAAGGACAACATCAAGTTATTAGCTGCCAAGGTGCCCTCTGGTGGC

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FIGURE 1014B

CAGGAGTTGACGTCTGAGCTGAATGTTGTGCTGGAGAATTACCAACTTCTTTGTAATAGAATTTCGAGGAAAGTGC
CACACGCTAGAGGAGGTCTGGTCTTGTGGATTGAAGTCTTCACTATTTGGATCTTGAAACTACCTGGTTAAAC
ACTTTGGAAGAGCGGATGAAGAGCACAGAGGTCTGCCTGAGAAGACGGATGCTGTCAACGAAGCCCTGGAGTCT
CTGGAATCTGTTCTGCGCCACCCGGCAGATAATCGCACCCAGATTTCGAGAGCTTGGCCAGACTCTGATTGATGGG
GGGATCCTGGATGATATAATCAGTGAGAACTGGAGGCTTTCAACAGCCGATATGAAGATCTAAGTCACCTGGCA
GAGAGCAAGCAGATTTCTTTGGAAAAGCAACTCCAGGTGCTGCGGGAACTGACCAGATGCTTCAAGTCTTGCAA
GAGAGCTTGGGGGAGCTGGACAAACAGCTCACCACATACCTGACTGACAGGATAGATGCTTCCAAGTTCCACAG
GAAGCTCAGAAAATCCAAGCAGAGATCTCAGCCCATGAGCTAACCCCTAGAGGAGTTGAGAAGAAATATGCGTTCT
CAGCCCCTGACCTCCCCAGAGAGTAGGACTGCCAGAGGAGGAAGTCAGATGGATGTGCTACAGAGGAACTCCGA
GAGGTGTCCACAAAGTTCCAGCTTTTCCAGAAGCCAGCTAACTTCGAGCAGCGCATGCTGGACTGCAAGCGTGTG
CTGGATGGCGTGAAAGCAGAACTTCACGTTCTGGATGTGAAGGACGTAGACCCCTGACGTCATACAGACGCACCTG
GACAAGTGATGAACTGTATAAACTTTGAGTGAAAGTCAAACCTTGAAAGTGGAACTGTGATTAAACAGGAAGA
CATATTGTCCAGAAACAGCAAACGGACAACCCAAAAGGGATGGATGAGCAGCTGACTCCCTGAAGGTTCTTTAC
AATGACCTGGGCGCACAGGTGACAGAAGGAAAACAGGATCTGGAAAGAGCATCACAGTTGGCCCGGAAAATGAAG
AAAGAGGCTGCTTCTCTCTCTGAATGGCTTTCTGCTACTGAACTGAATTGGTACAGAAGTCCACTTCAGAAGGT
CTGCTTGGTGACTTGGATACAGAAATTTCTGGGCTAAAAATGTTCTGAAGGATCTGGAAAAGAGAAAAGCTGAT
TTAAATACCATCACAGAGAGTAGTGCTGCCCTGCAAACTTGATTGAGGGCAGTGAGCCTATTTTAGAAGAGAGG
CTCTGCGTCTTAACGCTGGGTGGAGCCGAGTTCGTACCTGGACTGAAGATTGGTGCAATACCTTGATGAACCAT
CAGAACCAGCTAGAAATATTTGATGGGAACGTGGCTCACATAAGTACCTGGCTTTATCAAGCTGAAGCTCTATTG
GATGAAATTGAAAAGAAACCAACAAGTAAACAGGAAGAAATTGTGAAGCGTTTAGTATCTGAGCTGGATGATGCC
AACCTCCAGGTTGAAAATGTCCGCGATCAAGCCCTTATTTTGATGAATGCCCGTGGAAGCTCAAGCAGGGAGCTT
GTAGAACCAAAGTTAGCTGAGCTGAATAGGAACCTTTGAAAAGGTGTCTCAACATATCAAAGTGCCAAATTGCTA
ATTGCTCAGGAACCATTATACCAATGTTTGGTCACCACCTGAAACATTTGAACTGGTGTGCCTTTCTCTGACTTG
GAAAAATTAGAAAATGACATAGAAAATATGTTAAAATTTGTGGAAAAACACTTGGAATCCAGTGATGAAGATGAA
AAGATGGATGAGGAGAGTGCCAGATTGAGGAAGTTCTACAAAGAGGAGAAGAAATGTTACATCAACCTATGGAA
GATAATAAAAAAGAAAAGATCCGTTTGCAATTATTACTTTTGCTACTAGATACAACAAAATTAAGGCAATCCCT
ATTCACAGAGGAAAATGGGTCAACTTGCTTCTGGAATTAGATCATCACTTCTTCTACAGATTATCTGGTTGAA
ATTAACAAAATTTTACTTTGCATGGATGATGTTGAATTATCGCTTAATGTTCCAGAGCTCAACACTGCTATTTAC
GAAGACTTCTCTTTTCAGGAAGACTCTCTGAAGAATATCAAAGACCAACTGGACAACTTGAGAGCAGATTGCA
GTCATTATGAAAAACAGCCAGATGTCATCCTTGAAGCCTCTGGACCTGAAGCCATTGAGATCAGAGATACACTT
ACTCAGCTGAATGCAAAATGGGACAGAATTAATAGAATGTACAGTGATCGGAAAGGTTGTTTTGACAGGGCAATG
GAAGAATGGAGACAGTTCCATTGTGACCTTAATGACCTCACACAGTGGATAACAGAGGCTGAAGAATTACTGGTT
GATACCTGTGCTCCAGGTGGCAGCCTGGACTTAGAGAAAGCCAGGATACATCAGCAGGAACCTGAGGTGGGCATC
AGCAGCCACCAGCCAGTTTTGTCAGCACTAAACCGAACTGGGGATGGGATTGTGCAGAACTCTCCAGGCAGAT
GGAAGCTTCTTGAAAGAAAACTGGCAGGTTTAAACCAACGCTGGGATGCAATTGTTGCAGAAGTGAAGGATAGG
CAGCCAAGGCTAAAAGGAGAAAAGTAAGCAGGTGATGAAGTACAGGCATCAGCTAGATGAGATTATCTGTTGGTTA
ACAAAGGCTGAGCATGCTATGCAAAAGAGATCAACCACCGAATTGGGAGAAAACCTGCAAGAATTAAGAGACTTA
ACTCAAGAAATGGAAGTACATGCTGAAAACTCAAATGGCTGAATAGAAGTGAATTGGAGATGCTTTCAGATAAA
AGTCTGAGTTTACCTGAAAGGGATAAAATTTAGAAAAGCTTAAGGACTGTAAATATGACATGGAATAAGATTGTC
AGAGAGGTGCTTACCACCTGAAGGAATGCATCCAGGAGCCAGTTCTGTTTACAGACAAGGATTGCTGCTCAT
CCTAATGTCCAAAAGGTGGTGCTAGTATCATCTGCGTCAGATATTCCTGTTTCACTCTCATCGTACTTCGGAAATT
TCAATTCCTGCTGATCTTGATAAACTATAACAGAAGTACCCGACTGGCTGGTATTAATCGACCAGATGCTGAAG
TCCAACATTGTCAGTGTGGGGATGTAGAAGAGATCAATAAGACCGTTTCCCGAATGAAAATTACAAAGGCTGAC
TTAGAACAGCGCCATCCTCAGCTGGATTATGTTTTTACATTGGCACAGAATTTGAAAAATAAAGCTTCCAGTTCA
GATATGAGAACAGCAATTACAGAAAAATTTGAAAGGGTCAAGAACCAGTGGGATGGCACCCAGCATGGCGTTGAG
CTAAGACAGCAGCAGCTTGAGGACATGATTATTGACAGTCTTCAGTGGGATGACCATAGGGAGGAGACTGAAGAA
CTGATGAGAAAATATGAGGCTCGACTCTATATTCTTCAGCAAGCCCGACGGGATCCACTCACCAACAAATTTCT
GATAACCAATACTGCTTCAAGAACTGGGTCCTGGAGATGGTATCGTCATGGCGTTCGATAACGTCCTGCAGAAA

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FIGURE 1014C

CTCCTGGAGGAATATGGGAGTGATGACACAAGGAATGTGAAAGAAACCACAGAGTACTTAAAAACATCATGGATC
AATCTCAAACAAAGTATTGCTGACAGACAGAACGCCTTGGAGGCTGAGTGGAGGACGGTGCAGGCCTCTCGCAGA
GATCTGGAAAACCTCCTGAAGTGGATCCAAGAAGCAGAGACCACAGTGAATGTGCTTGTGGATGCCTCTCATCGG
GAGAATGCTCTTCAGGATAGTATCTTGGCCAGGGAACCTCAAACAGCAGATGCAGGACATCCAGGCAGAAATTGAT
GCCCACAATGACATATTTAAAAGCATTGACGGAACAGGCAGAAAGATGGTAAAAGCTTTGGGAAATTCTGAAGAG
GCTACTATGCTTCAACATCGACTGGATGATATGAACCAAAGATGGAATGACTTAAAAGCAAAATCTGCTAGCATC
AGGGCCCATTTGGAGGCCAGCGCTGAGAAGTGGAAACAGGTTGCTGATGTCCTTAGAAGAACTGATCAAATGGCTG
AATATGAAAGATGAAGAGCTTAAGAAACAAATGCCTATTGGAGGAGATGTTCCAGCCTTACAGCTCCAGTATGAC
CATTGTAAGGCCCTGAGACGGGAGTTAAAGGAGAAAGAATATTCTGTCCTGAATGCTGTGCGACCAGGCCCGAGTT
TTCTTGGCTGATCAGCCAATTGAGGCCCTGAAGAGCCAAGAAGAAACCTACAATCAAAAACAGAATTAACCTCT
GAGGAGAGAGCCCAAAAGATTGCCAAAGCCATGCGCAAACAGTCTTCTGAAGTCAAAGAAAAATGGGAAAGTCTA
AATGCTGTAAGTACGAATTGGCAAAGCAAGTGGACAAGGCATTGGAGAACTCAGAGACCTGCAGGGAGCTATG
GATGACCTGGACGCTGACATGAAGGAGGCAGAGTCCGTGCGGAATGGCTGGAAGCCCGTGGGAGACTTACTCATT
GACTCGCTGCAGGATCACATTGAAAAAATCATGGCATTTAGAGAAGAAATTGCACCAATCAACTTTAAAGTTAA
ACGGTGAATGATTTATCCAGTCAGCTGTCTCCACTTGACCTGCATCCCTCTCTAAAGATGTCTCGCCAGCTAGAT
GACCTTAATATGCGATGGAAACCTTTTACAGGTTTCTGTGGATGATCGCCTTAAACAGCTTCAGGAAGCCACAGA
GATTTTGGACCATCTCTCAGCATTTTCTCTCTACGTCAGTCCAGCTGCCGTGGCAAAGATCCATTTACATAAT
AAAGTGCCCTATTACATCAACCATCAAACACAGACCACCTGTTGGGACCATCCTAAAATGACCGAACTCTTTCAA
TCCCTTGCTGACCTGAATAATGTACGTTTTTCTGCCTACCGTACAGCAATCAAAATCCGAAGACTACAAAAAGCA
CTATGTTTGGATCTCTTAGAGTTGAGTACAACAAATGAAATTTTCAAACAGCACAAAGTTGAACCAAAATGACCAG
CTCCTCAGTGTTCCAGATGTCATCAACTGTCTGACAACAACCTTATGATGGACTTGAGCAAATGCATAAGGACCTG
GTCAACGTTCCACTCTGTGTTGATATGTGTCTCAATTGGTTGCTCAATGTCTATGACACGGGTGCAACTGGAAAA
ATTAGAGTGCAGAGTCTGAAGATTGGATTAATGTCTCTCTCAAAGGTCTCTTGGAAGAAAAATACAGATATCTC
TTTAAGGAAGTTGCGGGGCGACAGAAATGTGTGACCAGAGGCAGCTGGGCCTGTTACTTCATGATGCCATCCAG
ATCCCCCGGCAGCTAGGTGAAGTAGCAGCTTTTGGAGGCAGTAATATTGAGCCTAGTGTTGCGAGCTGCTTCCAA
CAGAATAACAATAAACCAGAAATAAGTGTGAAAGAGTTTATAGATTGGATGCATTTGGAACACAGTCCATGGTT
TGGCTCCAGTTTTACATCGAGTGGCAGCAGCGGAGACTGCAAACATCAGGCCAAATGCAACATCTGTAAAGAA
TGTCCAATTGTGCGGTTTCAAGTATAGAAGCCTTAAGCATTTTAACTATGATGTCTGCCAGAGTTGTTTCTTTTCG
GGTCGAACAGCAAAAGGTCACAAATTACATTACCCAATGGTGGAAATATTGTATACCTACAACATCTGGGGAAGAT
GTACGAGACTTCACAAAGGTACTTAAGAACAAGTTCAGGTGGAAGAAGTACTTTGCCAAACACCCTCGACTTGGT
TACCTGCCTGTCCAGACAGTTCTTGAAGGTGACAACCTTAGAGACTCCTATCACACTCATCAGTATGTGGCCAGAG
CACTATGACCCCTCACAATCTCCTCAACTGTTTCATGATGACACCCATTCAAGAATAGAACAATATGCCACACGA
CTGGCCCAGATGGAAGGACTAATGGGTCTTTTCTCACTGATAGCAGCTCCACCACAGGAAGTGTGGAAGACGAG
CACGCCCTCATCCAGCAGTATTGCCAAACACTCGGAGGAGAGTCCCCAGTGAGCCAGCCGAGAGCCCAGCTCAG
ATCCTGAAGTCAGTAGAGAGGGAAGAACGTGGAGAAGTGGAGAGGATCATTGCTGACCTGGAGGAAGAACAAGA
AATCTACAGGTGGAGTATGAGCAGCTGAAGGACCAGCACCTCCGAAGGGGGCTCCCTGTGCGGTTACCGCCAGAG
TCGATTATATCTCCCCATCACACGTCTGAGGATTGAGAAGTTATAGCAGAAGCAAACTCCTCAGGCAGCACAAA
GGTCGGCTGGAGGCTAGGATGCAGATTTTAGAAGATCACAATAAACAGCTGGAGTCTCAGCTCCACCGCCTCCGA
CAGCTGCTGGAGCAGCCTGAATCTGATTCCCGAATCAATGGTGTTCCTCCATGGGCTTCTCCTCAGCATTCTGCA
CTGAGCTACTCGCTTGATCCAGATGCCTCCGGCCACAGTTCCACCAGGCAGCGGGAGAGGACCTGCTGGCCCCA
CCGACAGACACCAGCACGGATCTCACGGAGGTCATGGAGCAGATTACAGCACGTTTCCATCTTGCTGCCCAAAT
GTTCCAGCAGGCCACAGGCAATGTGA

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FIGURE 1015

MAKYGEHEASPDNGQNEFSDI I KSRSEHNDVQKKTFTKWINARFSKSGKPP INDMFTDLKDGRKLLDLLEGLTG
TSLPKERGSTRVHALNNVNRVLQVLHQNNVELVNIGGTDIVDGNHKLTLGLLWSIILHWQVKDVMKDVMSDLQQT
NSEKILLSWVRQTTRPYSQVNVNFTTSWTDGLAFNAVLHRHKPDLFSWDKVVKMSPIERLEHAFSKAQTYLGIE
KLLDPEDVAVRLPDKKSIIMYLTSLFEVLPQQVTIDAIREVETLPRKYKKECEEEAINIQTSTAPEEEHESPRSET
PSTVTEVDMDLDSYQIALEEVLTWLLSAEDTFQEQQDDISDDVEEVKDQFATHEAFMMELTAHQSSVGSVLQAGNQ
LITQGTLSDEEEFEIQEQMTLLNARWEALRVESMDRQSRHLHDVLMELQKKQLQQLSAWLTLTTEERIQKMETCPLD
DDVKSLOKLLEEHKSLQSDLEAEQVKVNSLTHMVVIVDENSSESATAILEDQLQKLGERWTAVCRWTEERWNRLO
EINILWQELLEEQCLLKAWLTEKEEALNKVQTSNFKDQKELSVSVRRRLAILKEDMEMKRQTLQDQSEIGQDVGQL
LDNSKASKKINSSEELTQRWDSLVRLEDSSNQVTQAVAKLGMSQIPQKDLLETVRVREQAITKSKQELPPPP
PPKKRQIHVDIEAKKKFDAISAE LLNWILKWKTAIQTTETIKEYMKMQDTSEMKKKLKALEKEQREIRIPRADELNQ
TGQILVEQMGKEGLPTEEIKNVLEKVSSEWKNVSOHLEDLERKIQLOQEDINAYFKQLDELEKVIKTKEEWVKHTS
ISESSRQSLPSLKDSCQRELTNLLGLHPKIEMARASCSALMSQPSAPDFVQRGFD SFLGRYQAVQEAVEDRQQHL
ENELKGQPGHAYLET LTKLKDVLNDSENKAQVSLNVNLNDLAKVEKALQEKKTLD EILENQKPALHKLAEETKALE
KNVHPDVEKLYKQEFDDVQGWKWLKVLVSKDLHLLEEIALTLRAFEADSTVIEKWMGDKVDFLMKQQAQGDGA
GLQRQLDQCSAFVNEIETIESSKNMKEIETNLRSQPVAGIKTWVQTRLGDYQTQLEKLSKEIATQKSRLSESQE
KAANLKKDLAEMQEWMTQAE EEEYLERDFEYKSPEELESASVEEMKRAKEDVLQKEVRVKILKDNIKLLAAKVP SGG
QELTSELNVVLENYQLLCNRIRGKCHTLEE VWSWIELLHYLDLETTWLNTLEERMKSTEVLPEKTD AVNEALES
LESVLRHPADNRTQIRELGQTLIDGGILDDI ISEKLEAFNSRYEDLSHLAESKQISLEKQLQVLRETDOMLQVLQ
ESLGELDKQLTTYLTDRIDAFQVPQEAQKIQAEISAHELTLEELRRNMRSQPLTSPESTRARGGSQMDVLQRKL R
EVSTKFQLFQK PANFEQRMLDCKRVLDGVKAELHVLVDVKDVPDVIQTHLDKCMKLYKTLSEVKLEVE TVIKTGR
HIVQKQQTNDNPKGMDEQLTSLKVLYNDLGAQVTEGKQDLERASQLARKMKKEAASLSEWLSATETELVQKSTSEG
LLGDLDT EISWAKNVLDKLEKRKADLNTITESSAALQNLI EGSEPILEERLCVLNAGWSRVRTWTEDWCNTLMNH
QNQLEIFDGNVAHISTWLYQAEALLDEIEKKPTSKQEEIVKRLVSELDDANLQVENVRDQALILMNARGSSSREL
VEPKLAELNRNFEKVSQHIKSAKLLIAQEPLYQCLVTTTETFTETGV PFS DLEKLENDIENMLKFVEKHLESSDEDE
KMDEESAQIEEVLQRGEEMLHQPMEDNKKEKIRLQ LLLLHTRYNKIKAIPIQQRKMQLASGIRSSLLPTDYLVE
INKILLCDDVELSLNPPELNTAIYEDFSFQEDSLKNIKDQLDKLGEQIAVIHEKQPDVILEASGPEAIQIRDTL
TQLNAKWDRINRMYS DRKGCDFRAMEEWRQFHCDLNDLTQWITEAEELLV

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FIGURE 1016A

GCTGGCGGAGAGCGGCCTGCGGGCGATCGGGCCGAGCCTCGCTCAAGGAGCACCCCGGGGCACCCTCCTGTCCG
ATGGCAGCCCGGCCCTGTCCAGGAATGTCGGTATGACGGTCTCTCAGAAAGGGGGTCCCCAGCCAACACCGAGCC
CGGCTGGCCCTGGGACGCAACTCGGACCAATCACAGGAGAGATGGATGAAGCCGATTCTGCGTTTTTAAATTTA
AGCAGACAGCTGATGACTCTCTGTCCCTTACATCTCCAAACACCGAGTCCATTTTTGTAGAAGATCCCTACACCG
GCTGAGGAGTGAGATTGAGTCAGACGGCCACGAGTTTGAAGCTGAGTCCTGGAGCCTCGCCGTGGATGCAG
AGCCAAGAAGCAAAAGAGGGAGGTGGTGAAAAGACAAGATGTCCTTTATGAGCTGATGCAGACAGAGGTGC
ACGTGCGGACGCTCAAGATCATGCTGAAGGTGTACTCCAGGGCCCTGCAGGAGGAGCTGCAGTTCAGCAGCA
AGGCCATTGGCCGCCTCTTCCCATGCGCTGACGACCTGCTGGAGACGCACAGCCACTTCCTCGCTCGGCTCAAGG
GCGCGCCAGGAGTCCCTGGAGGAGGGCAGTGACCGGAATTATGTCATCCAGAAAATCGGCGACCTCCTGGTTCT
AGTTTTTCAGGTGAAAATGGGGAGAGAATGAAAGAAAAGTACGGTGTGTTTTGTAGTGGCCACAATGAAGCTG
ATTCATTACAAGTTGCTGCTTCAGCAAAACAAGAAATTTCAAACTTGATCAAGAAAATTGGCAACTTCTCCA
TGCGGCGGCTTGGCGTGCAAGGAGTGCAATTCCTGGTTACACAACGCATAACCAAATACCCAGTGCTGGTGG
GTCATCATCCAGAACACGGAAGCTGGCACTGAGGACTATGAAGACCTGACCCAGGCCCTGAACCTCATCAAAG
ATCATCTCACAGTGGACGCCAAGGTGAGTGAGTGTGAGAAGGGCCAGCGCCTCAGGGAGATCGCAGGGAAGA
TGGACCTGAAGTCTTCCAGCAAACCTCAAGAACGGGCTCACCTTCCGCAAGGAAGACATGCTTCAGCGGCAGCTCC
ACCTGGAGGGCATGCTATGCTGGAAGACCACATCAGGGCGCTTGAAAGATATCCTGGCTATCCTGCTGACCGACG
TACTTTTGCTGCTACAAGAAAAAGATCAGAAATACGTCTTTGCTTCTGTGGACTCAAAGCCACCCGTCATCTCGT
TACAAAAGCTCATCGTGAGGGAAGTGGCCAACGAGGAGAAAGCGATGTTTCTGATCAGCGCCTCCTTGCAAGGGC
CGGAGATGTATGAAATCTACACGAGCTCCAAAGAGGACAGGAACGCCTGGATGGCCACATCCAAAGGGCTGTGG
AGAGCTGCCCTGACGAGGAGGAGGGGCCCTTCAGCCTGCCCCGAAGAGGAAAGGAAGGTGGTCGAGGCCCCGCGCCA
CGAGACTCCGGGACTTTCAAGAGCGGTTGAGCATGAAAGACCAGCTGATCGCACAGAGCCTCCTAGAGAAACAGC
AGATCTACCTGGAGATGGCCGAGATGGGCGGCCTCGAAGACCTGCCCCAGCCCCGAGGCCTATTCCGTGGAGGGG
ACCCATCCGAGACCCTGCAGGGGGAGCTAATTCTCAAGTCGGCCATGAGCGAGATCGAGGGCATCCAGAGCCTGA
TCTGCAGGCGGCTGGGCAGCGCCAACGGCCAGGCGGAAGACGAGGCGAGCTCCACAGGCCCCGCCAGGAGGGCTG
AGACCTTCGCGGGCTACGACTGCACAAACAGCCCCACCAAGAATGGCAGTTTCAAGAAGAAAGTCAGCAGCACTG
ACCCAGGCCCCGAGACTGGCGAGGCCCCCAACAGCCCGGACTTGAAGCTCAGTGACAGTGACATTCTGGGA
GCTCTGAGGAATCGCCGAGGTGGTGGAGGCGCCAGGCACGGAATCCGATCCCCGTCTGCCACCCGTCCTGGAGT
CGGAGCTTGTCCAGCGGATCCAGACACTGTCCCAGCTGCTCCTGAACCTTCAGGCGGTAATCGCCCCACAGGACA
GCTATGTGGAGACGCAGCGGGCTGCCATCCAGGAGCGGGAGAAAGCAGTTCCGGCTGCAGTCGACGCGTGGGAACC
TGCTGCTGGAGCAGGAGCGGCAACGCAACTTCGAGAAGCAGCGGGAGGAGCGCGCGGCCCTGGAGAAGCTGCAGA
GCCAGCTGCGGCACGAGCAGCAGCGCTGGGAGCGCGAGCGCCAGTGGCAGCACCAGGAGCTGGAGCGTGCGGGCG
CGCGGCTGCAGGAGCGCGAGGGCGAGGCGCGGCGAGCTACGCGAGCGGCTGGAGCAGGAGCGGGCCGAGCTGGAGC
GCCAGCGCCAGGCCTACCAGCACGACCTGGAGCGGCTGCGCGAGGCCAGCGTGCCGTGGAGCGCGAGCGGGAGC
GCCTGGAGCTGCTGCGCCGCTCAAGAAGCAGAACACCGCGCCAGGCGCGCTGCCGCCGACACACTGGCCGAGG
CCCAGCCCCAAGCCACCCTCCAGCTTCAACGGGGGAAGGGCTGGAGGGCCCTCGGGTGAGCATGCTGCCATCCG
GCGTGGGGCCAGAGTACGCAGAGCGCCCCGAGGTGGCTCGCCGGGACAGCGCCCCACCGAGAGCCGGCTGGCCA
AGAGCGATGTGCCATCCAGCTGCTCAGCGCCACCAACCAGTTCCAGAGGCAGGCGGCCGTGCAGCAGCAGATCC
CCACCAAGCTGGCGGCCTCCACCAAGGGTGGCAAGGACAAGGGCGGCAAGAGCAGGGGCTCTCAGCGCTGGGAGA
GCTCAGCGTCTTTCGACCTGAAGCAGCAGCTGCTGCTCAACAAGCTCATGGGGAAAGATGAGAGCACTCACGGA
ACCGCCGCTCGCTGAGCCCTATCCTGCCCCGCGAGACACAGTCTGCGCCCCACCGAGACCCTGGCTTCCCCGCC
CGAGCCCACCGCCAGCTGACAGCCCCCTCCGAGGGCTTCTCTCTCAAGGCCGGGGGCACAGCCCTCCTGCCCGGCC
CCCCAGCTCCCTCGCCACTGCCGGCCACACCCTCAGCGCCAAGGAGGACGCCAGCAAAAGAAGACGTCATCTTCT
TCTAAAGGGCCGTGACTCAAGGAAAGTTTTTAATGGAAAGTTGAGCCAGAACTAAACCAGGGAGCTGTCTGAAA
TCATAGCACCCCATCCGGGTGGCGGGGAGATCAACTCCGAGCTGTTTTTCCGAGGCAGTGAGGAACGGTGCCGGC
TCTGCACGGAGCTGAGGACAGGACAGACCTTGCTTTGAGAAGGAGCTGCCGGCCGGGGCCACGCTCCACAGCCGC
CGCGCGACAGTGGAGCCAAGGGTTAGGGCACCAAGGAGGGGCCAGGTGGCGTGGCGAGCATCTGTCCCCAGAATCA
GGCAGAATCCACTTCCCAAACAGAGCCCCACGCAGGTTACCATGAACCTCAGGGTCAGGAATGAGCCAGGCAC
GGGGGCATGGGCAGAGAGGGCCACGGGGCAGGGCCCACTGAGGGAACATCAGTGGCCCTCCAGTCAGGTTCTGTG

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FIGURE 1016B

GGTTTGAAGCCCATCGTGAAAGGGGCTGACCTTTGCCCTTTTTACTTGGCATTGGTTTTGAAACCAGCTGTTT
CCCAAACCTCTGCTTCCCAAGGGCAACCGTTGCTGTTACACGCTCAGCCTGTCTGGGGGAGCGGGCCTCTAGCTT
CAGCCAGGGCGGGTACACACCCCTGGGCACAGGGTCCTCAGCCCCCGGGAATGAGCTCCAGGGCTGGCGTCCCA
CCTTCCAGGTGGGGGCTGGCACATCACAGACTGTGAGAGCGCCATGTCCCAGGGCATGCAGAGGTTGCACCTAG
AGACGTTGCAGCAAGTGGACAAGTGGCCGCTGTGCGGGCCCCCTCGCTTGTAGTGAGCTGTTGCAGCTTACGGTCC
GTTCCCTGGAGGGGTGGAGGAAGGAGGTGTTGGGCAGCATCAAAGGTGCTGGGACATCCCAGGGTGGTGAGATCC
ATCCACGATCCAGCTCCGGTGGAGAAAGGGCCCATGTCAAGCCTTGTTCTGCACCCCAAGCATTGGTGGTAGGAC
TGGGTCTGGCTGATCGTCCTTGTTCAGTGGGGTACATGTGAGCCCCCTGCCAGGGCCAAGTCCTTCTCCCGAA
CCCAGGGTCTGGGAACTGCAGATCCCGGGGGGATTAGCCCTTCTCCCACTGTGCTGGCAGAGGCACTCCTGTG
ACGCTGAATACAGTGAACAGGGACATTCCCGCCACTCGGGGACAGATGGGCACAAGGGAGGGGAACTCCATCAG
GAAGTGCTCCCTGGGCAGAGGCGCCCACTGGGTGCTGTGGGCTCAGGAGGGGGCGGGGCAGGAGCTGGTGCCAA
CCGGGAACCAGAGCCCCACAGCCATACAGCCATTGGTGACAAGGTCCTGAGAACACAGTGGCCAGGTGTCCCA
GGCTCCTGGCCCCCTCCGACGACCTCAACTCTGCCCAGCCCCGGTCCCTGGCCATCAGCGACGCTGTCCGCCCCCG
TCAGATCCCATGTGTGCCATGTTTATCATCAGTGTTTTGTATTTTGTACTGAGTATCGGAGCACTTTACAGAAG
CTGACTGTACATTCCCTGTTCTGTTGTGAAGAGAACATTCCCAGACCCTGGCACCCCTCCTGAGCCGGCGTGTGCCG
GTCCAGCCCTCCGAGATGCCACAATTCTTGGATGGGGGAGAAGTTCAAGGAATTTCTGCTCGGCCACGCGGTGG
GAACCCCGCGTCCCCGCCATGTGGCAGAGGGGTCTCAGTCGTGCTAGGCATCGGGCGGCAGCGCCGACAGCCCTT
CCCTCGCCAGTGCCCCCTCGGCCACTCCTGGGTGGAGCCGATTTTATTGTAAAGTTGACAGTCGAGCAAATGT
TCCTATTTTCGTGGGATCTGCACACGTCTTTGTGAGTTGTGGTCATGATCTTAGTCACCTGCTAATTATTTTAC
AATGATTACAACATTTCTCACTGCGGGATATTTCTGACCCGCTTTAGAACTTAAGACCTGATTCTAGCAATAAA
CGTGTCCGAGATG

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FIGURE 1017

MTVSQKGGPQPTPSPAGPGTQLGPITGEMDEADSAFLKFKQTADDSLSLTSPNTESIFVEDPYTASLRSEIESDG
HEFEAESWSLAVDAAYAKKQKREVVKRQDVLYELMQTEVHHVRTLKIMLKVYSRALQEELQFSSKAIGRLFPCAD
DLLETHSHFLARLKERRQESLEEGSDRNYVIQKIGDLLVQQFSGENGERMKEKYGVFCSGHNEAVSHYKLLLOQN
KKFQNLIKKIGNFSIVRRLGVQECILLVTQRITKYPVLVERIIQNTTEAGTEDYEDLTQALNLIKDIISQVDAKVS
ECEKGQRLREIAGKMDLKSSSKLKNGLTFRKEDMLQRQLHLEGMLCWTTSGRKLDILAILLTDVLLLLQEKDQK
YVFASVDSKPPVISLQKLIVREVANEKAMFLISASLQGPMEYEIYTSSKEDRNAWMAHIQRAVESCPDEEEGPF
SLPEEERKVVEARATRLRDFQERLSMKDQLIAQSLLEKQQIYLEMAEMGGLEDLPQPRGLFRGGDPSETLQELI
LKSAMSEIEGIIQSLICRRLGSANGQAEDGGSSTGPPRAETFAGYDCTNSPTKNGSFKKKVSSTDPRPRDWRGPP
NSPDLKLSDS DIPGSSEESPQVVEAPGTESDPRLPTVLESELVQRIQTLSQLLLNLQAVIAHQDSYVETQRAAIQ
EREKQFRLQSTRGNLLEQERQRNFQREERAALKLQSQLRHEQQRWERERQWQHQLERAGARLQEREGEAR
QLRERLEQERAELEQRQAYQHDLERLREAQRAVERERERLELLRRLKKQNTAPGALPPDTLAEAPPSPHPPSFN
GEGLEGPRVSMPLPSGVGPEYAEERPEVARRD SAPTESRLAKSDVPIQLLSATNQFQRQA AVQQQIPTKLAASKGG
KDKGGKSRGSQRWESSASFDLKQQLLLNKL MGKDESTSRNRRSLSPILPGRHSPAPPPDPGFPAPSPPPADSPSE
GFSLKAGGTALLPGPPAPSPPLPATPLSAKEDASKEDVIFF

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FIGURE 1018

CACATGTCGGCGCAGGCGGCCAAAGTCAGTAAAAAGGAGCTCAACTCCAACCACGACGGGGCCGACGAGACCTCA
GAAAAAGAACAGCAAGAAGCGATTGAACACATTGATGAAGTACAAAATGAAATAGACAGACTTAATGAACAAGCC
AGTGAGGAGATTTTGAAAGTAGAACAGAAATATAACAACTCCGCCAACCATTTTTTCAGAAGAGGTCAGAATTG
ATCGCCAAAATCCCAAATTTTGGGTAACAACATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGGAGGAA
GATGAAGAGGCACTGCATTATTTGACCAGAGTTGAAGTGACAGAATTTGAAGATATTAAATCAGGTTACAGAATA
GATTTTTATTTTGATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCCAAAGAATTCATCTGAATGAGAGTGGT
GATCCATCTTCGAAGTCCACCGAAATCAAATGGAATCTGGAAAGGATTTGACGAAACGTTGAGTCAAACGCAG
AATAAGCCAGCAGGAAGAGGCAGCATGAGGAACCAGAGAGCTTCTTTACCTGGTTTACTGACCATTCTGATGCA
GGTGCTGATGAGTTAGGAGAGGTCATCAAAGATGATATTTGGCCAAACCCATTACAGTACTACTTGGTTCCCGAT
ATGGATGATGAAGAAGGAGAAGGAGAAGAAGATGATGATGATGAAGAGGAGGAAGGATTAGAAGATATTGAC
GAAGAAGGGGATGAGGATGAAGGTGAAGAAGATGAAGATGATGAAGGGGAGGAAGGAGAGGAGGATGAAGGA
GAAGATGACTAAATAGAACACTGATGGATTCCAACCTTCCTTTTTTAAATTTCTCCAGTCCCTGGGAGCAAGT
TGCAGTCTTTTTTTTTTTTTTTTTTTTTTCCCTCTTGCTCAGTCGCCCTGTTCTTGAGGTCTCTTTTCTCTA
CTCCATGGTTCTCAATTTATTTGGGGGGAAATACCTTGAGCAGAATACAATGGGAAAAGAGTCTCTACCCCTTTC
TGTTCGAAGTTCAATTTTATCCCTTCCTGTCTGAACAAAACTGTATGGAATCAACACCACCGAGCTCTGTGGGA
AAAAAGAAAAACCTGCTCCCTTTGCTCTGCTGGAAGCTGGAGGGTGTAGGCCCTGTGTAGTAGTGTATAGAAT
TCTAGCTTTTTTCCCTCCTTTCTCTGTATATTGGGCTCAGAGAGTACACTGTGTCTCTATGTGAATATGGACAGTT
AGCATTACCAACATGTATCTGTCTACTTTCTCTTGTTTAAAAAAGAAAAAATCTTAAAAAATGGGGTTAT
AGAAGGTCAGCAAAGGGTGGGGTTGAGATGTTTGGGTGGGTTAGTGGGCATTTTGACAACATGGCTTCTCCTT
TGGCATGTTTAATTGTGATATTTGACAGACATCCTTGCAGTTTAAGATGACACTTTTAAATAAATTCTCTCCTA
ATGATGACTTGAGCCCTGCCACTCAATGGGAGAATCAGCAGAACCTGTAGGATCTTATTTGGAATTGACATTCTC
TATTGTAATTTGTTCCCTGTTTATTTTGGGTTTCTTTTGTTCACCTGGAAAGGAAAGATGATGCTCAGTTTTA
AACGTTAAAAGTGTAAGTTGCTTTGTTACAATAAACTAAATGTGTACACAAAGGATTTGATGCTTTTCTCTC
AGCATAGGTATGCTTACTATGACCTTCCAAGTTGACTTGTATAACATCACTGTCAAACCTTTGTCAACCTAACTT
CGTATTTTTTGATACGCACCTTTGCAGGATGACCTCAGGGCTATGTGGATTGAGTAATGGGATTTGAATCAATGT
ATTAATATCTCCATAGCTGGGAAACGTGGGTTCAATTTGCCATTGGTTTCTGAAAAGTATTCACATCATTGGGA
TACCAGATAGCTCAATACTCTCTGAGTACATTGTGCCCTTGATTTTTATCTCCAAGTGGCAGTTTTTAAATTTG
CCTTTTACCTGGATATAAATTAATTGTGCCTGCCACCACCATCCAACAGACCTGGTGCTCTAATGCCAAGTTATA
CACGGGACAGTTGCTGGCATGTCTTCAATTGGCTCTCTAAAATGTGGCCAAGAAGATAGGCTCTCAGTAAGAAGTC
TGATGGTGAGCAGTAACGTCCCTGCTTTCTGGTATAAAGCTCTCAAATGTGACCATGTGAATCTGGGTGGGATA
ATGGACTCAGCTCTGTCTGCTCAATGCCATTGTGCAGAGAAGCACCTAATGCATAAGCTTTTTAATGCTGTAAA
ATATAGTCGCTGAAATTAATGCCACTTTTTCAGAGGTGAATTAATGGACAGTCTGGTGAACCTTCAAAGCTTTT
TGATGTATAAACTTGATAAATGGAACATTCCATCAATAGGCAAAAGTGTAACAACCTATCTAGATGGATAGTA
TGTAATTTCTGCACAGGTCTCTGTTTAGTAAATACATCACTGTATACCGATCAGGAATCTTGCTCCAATAAAGGA
ACATAAAGATTTAAAAAAAAAAAAAAAAA

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FIGURE 1019

MSAQAAKVSKKELNSNHDGADETSEKEQQAIEHIDEVQNEIDRLNEQASEEILKVEQKYNKLRQPFFQKRSELI
AKIPNFWVTTTFVNHPQVSALLGEEDEEALHYLTRVEVTEFEDIKSGYRIDFYFDENPYFENKVLSEFHLNESGD
PSSKSTEIKWKSGKDLTKRSSQTQNKASRKRQHEEPESFFTWFTHSDAGADELGEVIKDDIWPNPLOYYLVPDM
DDEEGEGEEDDDDDDEEEGLEDDIEEGDEDEGEDEDDDEGEEGEEDDEGEDD

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FIGURE 1020A

CGGGAGCCCAGGCGGGCAGGCCGCTGGGGTTCGGGGCTGCACGTACGAGAGCCGGGACGCCCAGGTTTCAGAGCGAA
GGAGGAGGCATGGCTTCGGTGTTCATGTGTGGCGTGGAGGACCTGCTGTTTCAGCGGCAGCCGCTTCGTATGGAAC
TTGACCGTGTCCACGCTGCGGAGATGGTACACGGAGAGGCTGCGGGCTTGCCACCAGGTGCTGCGGACGTGGTG
GGGCTGCAGGACGTGTACCAGATGACAGAAGGCAGGCACTGCCAGGTGCACCTCCTGGATGATAGGAGACTGGAG
CTGCTGGTTTCAGCCAACTTCTAGCAAGAGAGTTGCTGGACCTAGTGGCTTCACATTTCAACCTGAAAGAAAAG
GAGTATTTTGAATAACATTCATAGATGACACAGGTCAGCAGAACTGGCTGCAGTTAGATCACCGAGTTCCTTGAC
CACGATTTGCCCAAGAAACCAGGCCCAACATTTTGCACCTTTGCTGTGAGGTTTTACATTGAGAGCATATCGTTT
TTAAAGGATAAAACCACCGTGGAGCTGTTTTTCTGAATGCAAAGGCCTGTGTGCACAAGGGGCAATCGAAGTA
GAGAGCGAAACCATCTTCAAGTTAGCAGCGTTTTATTTTACAGGAAGCCAAGGGAGATTATACCAGTGATGAAAAT
GCCAGGAAAGATTTAAAGACATTACCAGCCTTTCCAACCAAACTCTTCAGGAGCATCCATCCCTTGCCTACTGT
GAGGACAGGGTAATTGAGCATTATTTGAAAATCAAAGGTCTCACTCGAGGTCAAGCTGTGGTTTCAGTATATGAAA
ATAGTAGAAGCTCTACCGACTTACGGTGTCCATTATTATGCAGTAAAGGATAAGCAAGGACTTCCTTGGTGGCTT
GGAATAAGCTATAAGGGAATTGGCCAATATGATATACAAGACAAGGTGAAGCCTCGGAAGTTATTCCAATGGAAA
CAGCTGGAGAACTTATATTTCCGTGAGAAAAATTTGCTGTTGAAGTTCATGATCCACGAAGGATTTTCAGTTTCA
AGAAGAACCTTTGGGCAAAGTGGCCTGTTTGTGCAAACATGGTATGCTAACTCTTCTCTCATCAAGTCCATTTGG
GTAATGGCAATTAGTCAGCATCAGTTTTACTTGGACCGGAAGCAAAGCAAAGCAAAATTCCTTCAGCCAGGAGT
TTAGATGAGATTGCAATGGATTTGACAGAGACAGGAACACAAAGGGCCTCCAAGCTGGTGACACTGGAGGCGAAA
AGTCAGTTCATCATGGCAAGTAATGGCAGTTTTAATCTCCTCAGGTTCTCAAGACTCAGAAGTTAGTGAAGAGCAA
AAGAGAGAAAAATCCTTGAACATAAAGAAGAAGGAGAACTATTACAAGAAAACTTCTGAAAAAGTTGAGGAG
CTTAAGAAGATCTGTCTGCGGGAGGCTGAGCTCACAGGCAAAATGCCAAAGGAGTATCCCCTGAACATAGGCGAG
AAGCCTCCTCAGGTGAGAAGACGTGTGGGTACTGCGTTCAAATTAGATGACAACCTTGCTGCCGAGTGAAGAAGAT
CCTGCTTTGCAAGAAGCTGGAGAGTAATTTCTAATACAACAAAAGCTGGTGGAAGCTGCAAAGAACTTGCCAAT
GAGCCAGACCTTTGTAAACTGTGAAGAAAAAGCGAAAGCAAGATTACACAGATGCGATGAAAAAGCTTCAGGAG
ATTGAAAATGCAATAAACGAATACCGAATTAGGTGTGGAAGAAACCCAGCCAGAAAGCAACAGTGTACCAGAA
GACATAATCCCCTCAGAGAGTAGCTCTTTGTCTGACACCACCACCTATGATGATCCAGTGATGCCTTCACTTTT
CCTGGGCAGCGATCAAGTTCAGTACCTCATTCTCCAAGAACTCTTCCCCCAAGTCTCTTGGTATTGAGCGAATC
CATTTTCAGAAAGTCGTCCATCAATGAACAGTTTGTGGATACCAGGCAGTCCAGAGAAATGCTGTCCACACACAGC
AGCCCTTACAAAACCTCTGGAGAGGCGGCCCCAGGGAGGACGAAGCATGCCACCACGCCAGTTCTTACCCGAAAC
GCCTACAGCAGCAGCCACTTGGAACCCGAATCTTCATCTCAGCACTGCCGCCAGCGGAGTGAAGCCTGGAGTCC
CAGTCCCATCTGCTCTCCGAGATGGACAGCGATAAGCCATTTTTCTCCCTCTCCAAATCCCAAAGAAGCAGCAGC
ACAGAAATCCTCGATGACGGGTCTTCTTATACAAGCCAATCAAGCACAGAGTATTACTGTGTGACACCAGTTACC
GGCCCTTATTACACCACCCAGACCCTGGACACTCGCACCAGGGGTTCGGAGGAGGTCAAAGAAACAGAATGTTTCT
ACTTCAAATTCAGGAAGCATGCCCAACCTAGCACAAAAGGATAGTTTGAGGAATGGTGTTTACTCAAAGAGTCAG
GAGCCACCGTCTTCCAGTTACTACATTGCCGGGTACACACCCTATGCAGAGTGTGACTTTTATTACAGTGGTGGT
TATGTCTATGAGAATGACACCAGGGGACAGTATAGTGTCAACCCTTCTACCGGTCTCAGCCCACTATGGATAT
GAGCGCCAGAGGGACTACAGCAGATCCTTTACGAAGATGAGGTGACCGGGTACCCCATACCCATATGCAACT
CTCCGGCTGCCAAGGAAGGCTGCTGCAAAATCGGAGCACATACCAAAAACATCCACAAGGCCTTAGTTGCCGAG
CACTTGCGTGGCTGGTACCAGCGGGCCTCTGGGCAGAAGGATCAGGGACACAGCCCGCAGACCAGCTTTGACTCA
GACAGGGGATCACAGAGATGCCTGGGGTTTTGCGGGGCTGCAAGTACCTTGTTCTCCAAGCAGTCGTGCATCCTTG
TACTCTTCAGTGTCTTCTACAAATGCTTCTGGGAAGTGGAGGACCCAGTTAACCATAGGGCTGTGCGGATTACGAG
ACTCCAGCACATCTTCTTACACCAGCTGCTATGGCAATGTCTATAATCCTTTACCCTCTCCAAGCAGACAATAC
ACAGAAATCAGTCAACTGGATGGTACAGATGGAACCAGCTGGAAGACAACCTGGAGAGTAGTGAGCAGAGACTC
TTTTGGCATGAAGATTCAAAGCCTGGAACATTAGTCTGAACTGCAGTTGGACCTCCTGACCAAGCACTGCGTTCT
CACACTAGTGTGCCTTGCAAATGTATTTGTCTTCCGAGAGGATGTTTCGTTTTAGAAACCTAAAGACATCAAAGG
TTGAAGAGAAGACTTAGTTGCCCTGGAAGTGAATCAGTGAATCACACCAAGCCCCACAAAGCCCCATAAGGAG
GATTTGGCCTTTCAAACCTAGGCACTAACGTAAGTGTAGGGTCTGCCACATGTTGAAGTATTGCCAAGAGAGG
ACTCAGTGTGAAGCCTTCATCAATAGCAAGCACTTTTTAAGGGAGTAAAGTTGTAAAGGCAAACGTCAAAAAC
ATGAAAGGGCATTGAGGATGTCCCATGGCAATAAGAACAGGGGAAATCTCAGAGCACAATTCAGCAGGATGAGAG

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FIGURE 1020B

AAGGGGAACCAGAAGCTCCGGAGTCATTGCTCACTTCAGAGTTTGAATTCGTGAGCTGACAAAGAGTAACATGCT
CTTTCTACACAGACATGGACAATTTAGACAGTATTGGAAAATTACTTGAAGCTGGATTTTCATGAAGTTCTGAAT
GAGTGTAAATGTTTTTTTAGGATACTATAAAGAGTGATGTTTTTCATAAGCACCATAAAATGGGTTCGGAAAAAC
TGATTACCTTAGCATCCTGTAATATAACTTATGGTAGCAGATTGGGGAATGAAGCAGCCCACTGAATAATTGA
AGTCTGCTTGGAGAACATTCTAAGGTACAATATCATGGAGCTCCTTTTTCTTTCTCCACTAATTGCGTGAT
TATTGTTCTGGCTGGTAATTCTCCAACCTCGGCTGTCATTTGAAGTGGCAGACTTAATATGGAAAGTTTTTA
ATTATGAGTTTGAAAAAGCATTTTAAGATGATACAGAAAGTATCCAAAACAACAGAAAAAAGCCACGTCA
TTTAGATGAATTGCGTGCCTTAAATGGTGAACGTTAGAAAATTAAACAAGTCTGGATTCCACAAGTAGTTCCA
ACCAAGTGACAAAAACAAGGTTAACATTAAAAAGAAAAACAACAACGACAAAAAGCTCCAAGCTGCA
ATTTAATTATGAGGCTAAACTACCTCATACTTTCCTTGAAGAATAATTAGCTATGGTTTATTGTAGGG
GTTTGTTTGTTTTTTAAAGCAAATGATTTCCATATTCCTGATTGATCTTTTTTGTATCTTTTGCTTCAAAA
ATAAAAGGTGCTCCTTCCCCCTTCTTTTATACAAGTTTCTTGTTTATATTGTGAATAGAAAAGTTTCTGA
ACTTTTTTGGAACATTTTCTATCTATATCCAAAGCATGTAATATATACATAAAACGATTTGTTAACTGG
CTTAGTCATTTGTATAATTAGAAATGAAGTTTGGGAAAAAATTTGGAAAAAGACAAGCAAAAAAATAA
CTTATTCCTTTTTTGCATATTTGTATAGCCTTCTAGAATCAGAAATAACCTTTTGCATATTCTTTTATTGTTCT
GACTTTTCAAGACCTATTATTTTTTTTACATAGGTCAATAAAACAAAAGGTGTGCTACTG

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FIGURE 1021

REPRRAGRWGRGCTYESRDARVQSEGGGMASVFMCGVEDLLFSGSRFVWNLTVSTLRRWYTERLRACHQVLRWC
GLQDVYQMTEGRHCQVHLLDDRLELLVQPKLLARELLDLVASHFNLKEKEYFGITFIDDTGQQNWLQLDHRVLD
HDLPPKPGPTILHFAVRFYIESISFLKDKTVELFFLNAKACVHKQIEVESETIFKLAAILQEAKGDYTSDEN
ARKDLKTLPAFPTKTLQEHPSLAYCEDRVIEHYLKIKGLTRGQAVVQYMKIVEALPTYGVHYYAVKDKQGLPWWL
GISYKGIGQYDIQDKVKPRKLFQWKQLENLYFREKKFAVEVHDPRRISVSRRTFGQSGLFVQTWYANSSLIKSIW
VMAISQHOFYLDKQSKAKIPSARSLDEIAMDLTETGTQRASKLVTLEAKSQFIMASNGSLISSGSQDSEVSEEQ
KREKILELKKKEKLLQEKLLKKVEELKKICLREAELTGKMPKEYPLNIGEKPPQVRRRVGTAFKLDNLLPSEED
PALQELESNFLIQQKLVEAAKKLANEPDLCKTVKKRKQDYTDAMKKLQEIENAINERYIRCGKKPSQKATVLP
DIIPSESSSLSDTTTYDDPSDAFTFPGQRSSSVPHSPRILPPKSLGIERIHFRKSSINEQFVDTRQSREMLSTHS
SPYKTLERRPQGGRSMPPTPVLTRNAYSSSHLEPESSSQHCRQSGSLESQSHLLSEMDSDKPFFSLSKSQRSS
TEILDDGSSYTSQSSTEYCVTPVTGPYYTTQTLDTTRGRRRRSKKQNVSTSNSGSMPNLAQKDSLNRGVYSKSQ
EPPSSSYIAGYTPYAECDFYYSGGYVYENDTEGQYSVNPSYRSSAHYGYERQDYRSFHEDEVDRVPHNPYAT
LRLPRKAAAKSEHITKNIHKALVAEHLRGWYQRASGQKDQGHSPQTSFDSDRGSQRCLGFAGLQVPCSPSSRASL
YSSVSSTNASGNWRTQLTIGLSDYETPAHSSYTSCYGNVYNPLPSPSRQYTEISQLDGTGDNQLEDNLESSEQRL
FWHEDSKPGTLV

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FIGURE 1022

GGGACGTGAGCCGCTGCGCCACCGGGCTAGACCGGGCGCCATCATGCTGCTTCTGCCAAGCGCCGCGGACGGCC
GGGGCACCGCCATCACCCACGCTCTGACCTCTGCCTCTACACTCTGTCAAGTTGAACCTGTGGGAAGATGGTTTG
AAGCTTTTGTAAAGAGGAGAAAACAGAAATGCTTCTGCCTCTTTTCAGGAACTGGAGGATAAGAAAAGATTATCCG
AGGAATCAGAAGATGAAGAATTGCAGTTGGAAGAGTTTCCCATGCTGAAAACACTTGATCCCAAAGACTGGAAGA
ACCAAGATCATTATGCAGTTCTTGGACTTGGCCATGTGAGATACAAGGCTACACAGAGACAGATCAAAGCAGCTC
ATAAAGCAATGGTTTTAAACATCACCCAGACAAACGGAAAGCAGCTGGTGAACCAATAAAAAGAGGAGATAATG
ACTACTTCACTTGCATAACTAAAGCTTATGAAATGTTATCTGATCCAGTGAAAAGACGAGCATTAAACAGTGTAG
ATCCTACTTTTGATAACTCAGTTCCTTCTAAAAGTGAAGCAAAGGATAATTTCTTCGAAGTGTTCACCCAGTGT
TTGAAAGGAATTCCAGATGGTCAAATAAAAAAATGTTCTTAACTTGGTGATATGAATTCATCATTGGAAGATG
TAGATATATTTTATTCTTTCTGGTATAATTTTGATTCTTGGAGAGAATTTCTTATTTAGATGAAGAAGAAAAAG
AAAAAGCAGAATGTCGTGATGAGAGGAGATGGATTGAAAAGCAGAACGGAGCAACAAGAGCACAAAAGAAAAAAG
AAGAAATGAACAGAATAAGAACATTAGTTGACAATGCATACAGCTGTGATCCAAGGATAAAAAAGTTCAAGGAAG
AAGAAAAAGCCAAGAAAGAAGCAGAAAAGAAAGCAAAGCAGAAAGCTAAACGGAAGGAGCAAGAAGCTAAAGAAA
AACAAAGACAAGCTGAATTAGAAGCTGCTCGGTTAGCTAAGGAGAAAGAAGAGGAGGAAGTCAGACAGCAAGCAT
TGCTGGCAAAGAAGGAAAAAGATATCCAGAAAAAGCCATTAAGAAGGAAAGGCAAAAACCTTCGAAACTCATGCA
AGATAGAAGAAATAAATGAGCAAATCAGAAAAGAGAAAGAGGAAGCTGAGGCTCGTATGCGACAAGCATCTAAGA
ACACAGAGAAATCAACTGGTGGAGGTGGAATGGAAGTAAAAATGGTTCAGAAGATGATCTACAATTACTAATTA
AAGCTGTGAATCTGTTCCCTGCTAGAACAAATTCAAGATGGGAAGTTATTGCTAATTACATGAACATACATTCTT
CCTCTGGAGTCAAAAGAACTGCCAAAGATGTTATTGGCAAAGCAAAGAGTCTCCAAAACCTTGACCCTCATCAA
AAGATGACATAAATAAAAAGGCATTTGATAAGTTCAAAAAAGAACATGGAGTGGTACCTCAAGCAGACAACGCAA
CGCCTTCAGAACGATTTGAAGGTCCATATACAGACTTCACCCCTTGGACAACAGAAGAACAGAAGCTTTTGGAAC
AAGCTTTGAAAACATACCCAGTAAATACACCTGAAAGATGGGAAAAAATAGCAGAAGCGGTGCCTGGCAGGACAA
AGAAGGACTGCATGAAACGATACAAGGAACCTGTGCGAGATGGTAAAAGCAAAGAAAGCTGCTCAAGAACAAGTGC
TGAATGCAAGTAGAGCCAAGAAATGACAATCTTTGTTGTGTGTGCATTTTATAATAAACTGAAAATACTGTAA
ACATTTTCATTCTTAAAATTATACTCATGGTAATAATTTGAAAGTAAAAAAAAAAAAAA

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FIGURE 1023

DVSRCAHRARPGAIMLLLPSAADGRGTAITHALTSASTLCQVEPVGRWFEAFVKRRNRNASASFQELEDDKKELSE
ESEDEELQLEEFPMKTLDPKDWKNQDHYAVLGLGHVRYKATQRQIKAAHKAMVLKHHDPKRKAAGEPIKEGDND
YFTCITKAYEMLSDPVKRRAFNSVDPTFDNSVPSKSEAKDNFFEVFTPVFERNRWSNKKNVPKLGDMNSSFEDV
DIFYSFWYNFDSWREFSYLDEEEKEKAECRDERRWIEKQNGATRAQRKKEEMNRIRTLVDNAYSCDPRIKKFKEE
EKAKKEAEKKAKAEAKRKEQEAKKQQAEELEAARLAKEKEEEEVRRQALLAKKEKDIQKKAIKKERQKLRNSCK
IEEINEQIRKEKEEAARMRQASKNTEKSTGGGGNGSKNWEDDLQLLIKAVNLF PARTNSRWEVIANYMNIHSS
SGVKRTAKDVIGKAKSLQKLDPHQKDDINKKAFDKFKKEHGVVPQADNATPSERFEGPYTDFTPWTTEEQKLLEQ
ALKTYPVNTPERWEKIAEAVPGRTKKDCMKRYKELVEMVKAKKAAEQVLNASRAKK

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FIGURE 1024A

GCGGCGGTGCGGCCAGGCTGCAGCTGAGCGCTCTGCGCGGCGCAGCCGGGTCTCCCGCGTGTACCACGCCGTGA
CAGGTGCAGAGTCCGGGCTGAGGACCCACCTGCAGCCGCCGCCGCGATGCCACCATGCGGAGGACCGTGTGCGA
GATCCGCTCGCGCGCCGAAGGTTATGAGAAGACAGATGATGTTTCAGAGAAGACCTCACTGGCTGACCAGGAGGA
AGTAAGGACTATTTTCATCAACCAGCCCCAGCTGACAAAATTCTGCAATAACCATGTGAGCACTGCAAAATACAA
CATAATCACATTCTTCCAAGATTTCTCTACTCTCAGTTCAGAAGAGCTGCTAATTCATTTTTTCTCTTTATTGTC
ACTGCTGCAGCAAATACCTGATGTGTACCAACAGGTCGTTATACAACACTGGTTCCTCTCTTATTTATTATTAGC
TGTGGCAGCTATCAAAGAGATAATAGAAGATATTAACGACATAAAGCTGATAATGCAGTGAACAAGAAACAAAC
GCAAGTTTTGAGAAATGGTGCTTGGGAAATTGTCCACTGGGAAAAGGTGGCAGTAGGGGAGATAGTGAAAGTGAC
CAATGGGGAACATCTCCAGCAGATCTCATCAGTCTGTCTCAAGTGAGCCCCAAGCCATGTGCTACATTGAAAC
ATCCAACCTTAGATGGTGAAACAACTTGAAAATTAGACAGGGCTTACCAGCAACATCAGATATCAAAGACGTTGA
CAGTTTGATGAGGATTTCTGGCAGAATTGAGTGTGAAAGTCCAAACAGACATCTCTACGATTTTGTGGAAACAT
AAGGCTTGATGGACATGGCACCGTTCCACTGGGAGCAGATCAGATTCTTCTTCGAGGAGCTCAGTTGAGAAATAC
ACAGTGGGTTTATGGAATAGTTGTCTACACTGGACATGACACCAAGCTGATGCAGAATTCACAAGTCCACCCT
TAAGCTCTCAAATGTGGAACGGATTACAAATGTACAAATTTTGATTTTATTTTGTATCTTAATTGCCATGTCTCT
TGTCTGTTCTGTGGGCTCAGCCATTTGGAATCGAAGGCATTCTGGAAAAGACTGGTATCTCAATCTAAACTATGG
TGGCGCTAGTAATTTTGGACTGAATTTCTTGACCTTCATCATCTTTTCAACAATCTCATTCCTATCAGCTTATT
GGTTACATTAGAAGTTGTGAAATTTACCCAGGCATACTTCATAAATTTGGGATCTTGACATGCACTATGAACCCAC
AGACACTGCTGCTATGGCTCGAACATCTAATCTGAATGAGGAACCTGGCCAGGTTAAATACATATTTCTGACAA
AACTGGTACTCTGACATGCAATGTAATGCAGTTTAAAGAAGTGCACCATAGCGGGAGTTGCTTATGGCCATGTCCC
TGAACCTGAGGATTATGGCTGCTCTCCTGATGAATGGCAGAACTCACAGTTTGGAGATGAAAAACATTTAGTGA
TTCATCATTTGCTGGAAAATCTCCAAAATAATCATCCAACCTGCACCTATAATATGAATTTCTTACAATGATGGC
AGTCTGTACACAGCAGTGCCAGAGCGAGAAGGTGACAAGATTATTTATCAAGCAGCATCTCCAGATGAGGGAGC
ATTGGTCAGAGCAGCCAAGCAATTGAATTTTGTCTTCACTGGAAGAACACCCGACTCGGTGATTATAGATTCACT
GGGGCAGGAAGAAAGATATGAATTGCTCAATGTCTTGGAGTTTACCAGTGCTAGGAAAAGAATGTCAGTGATTGT
TCGCACTCCATCTGGAAGTTACGACTCTACTGCAAAGGAGCTGACACTGTAATTTATGATCGACTGGCAGAGAC
GTCAAATACAAAGAAATTACCCTAAAACATTTAGAGCAGTTTGTCTACAGAAGGGTTAAGAACCTTTATGTTTTGC
TGTGGCTGAGATTTAGAGAGCGACTTTCAGGAGTGGCGAGCAGTCTATCAGCGAGCATCTACATCTGTGCAGAA
CAGGCTACTCAAACCTGAAGAGAGTTATGAGTTGATTGAAAAGAACTTTCAGCTACTTGGAGCAACAGCCATTGA
GGATAAATTACAAGATCAAGTGCCTGAAACCATAGAAACGCTAATGAAAGCAGACATCAAATCTGGATCCTTAC
AGGGGACAAGCAAGAACTGCCATTAAACATCGGACACTCCTGCAAACCTGTTGAAGAAGAATGGAATGATTGT
TATAAATGAAGGCTCTCTTGATGGAACAAGGGAACTCTCAGTCGTCACTGTACTACCCTTGGTGATGCTCTCCG
GAAAGAGAATGATTTTGTCTTTATAATTGATGGGAAAACCCTCAAATATGCCTTAACTTTGGAGTACGACAGTA
TTTCTGGACTTAGCTTTGTCTATGCAAAGCTGTCAATTTGCTGTGCGGTTTCTCCTCTTCAAAAATCTGAAGTTGT
TGAGATGGTTAAGAAACAAGTCAAAGTCGTAACGCTTGCAATCGGTGATGGAGCAAATGATGTGAGCATGATACA
GACAGCGCACGTTGGTGTGGTATCAGTGGCAATGAAGGCTGCAGGCAGCTAATTCCTCTGACTACTCCATAGC
TCAGTTCAAATATTTGAAGAATTTACTGATGATTCATGGTGCCTGGAACATAACAGAGTCTCCAAGTGCATCTT
ATACTGCTTCTACAAGAATATAGTGCTCTATATTATCGAGATCTGGTTTGCCTTTGTTAATGGCTTTTCTGGACA
GATCCTCTTTGAAAGATGGTGTATAGGCTCTTATAACGTGATGTTTACAGCAATGCCTCCTTTAACTCTTGGAAT
ATTTGAGAGATCATGCAGAAAAGAGAACATGTTGAAGTACCCTGAATTATACAAAACATCTCAGAATGCCCTGGA
CTTCAACACCAAGGTTTTCTGGGTTTCAATGTTTAAATGGCCTCTTCCACTCAGTTATTCTGTTTTGGTTTCCACT
AAAAGCCCTTCAAGTATGGTACTGCATTTGGAAATGGGAAAACCTCGGATTATCTGCTACTGGGAACTTTGTGTA
CACTTTTGTGGTGATAACTGTGTGTTTGAAGCTGGATTGGAGACATCATATTGGACATGGTTTCAGCCACATAGC
GATATGGGGGAGCATCGCACTCTGGGTGGTGTGTTTTGGGAATCTACTCATCTCTGTGGCTGCCATTCCGATGGC
CCCTGATATGTGAGGAGAGGCAGCCATGTTGTTTCAAGTCTGGAGTCTTTTGGATGGGCTTGTATTTCATCCCTGT
GGCATCTCTGCTCCTTGATGTGGTGTACAAGGTTATCAAGAGGACTGCTTTTAAACATTGGTCGATGAAGTTCA
GGAGCTGGAGGCAAAATCTCAAGACCCAGGAGCAGTTGTACTTGGAAAAAGCCTGACCGAGAGGGCGCAACTGCT
CAAGAACGCTCTTAAGAAGAACCACGTGAACCTGTACCGCTCTGAATCCTTGCAACAAAATCTGCTCCATGGGTA
TGCGTTCTCTCAAGATGAAAATGGAATCGTTTACAGTCTGAAGTGATAAGAGCATATGATACCACGAAACAGAG

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FIGURE 1024B

GCCCGACGAATGGTGTATGGGGAGAGCCTGAAAGGCAGGCTCTGTACCTCTCTAAGGAGAGCTACCAGGTTGTCA
CCGCAGTCTGCTAACCAATTCAGTCTGGTCCATGAAGAGGAAAGGTAGATCTGAGCTCATCTCGCTGATGGACA
TTCAGATTTCATGTATATTATAGACATAAGCACTGTGCAACTGTACTGTAACACCATCTCTTTTGGATTTTTTTAA
GGTATTTTGCTAAGTCTTTGTAAACGGAAATTGAAAATGACCTGGTATCTTGCCAGAGGGCTTTCTTAAACGGAGA
ATAAGTCAGTATTCTTATGCCATTACTGTGGGGCTGTAAGTACTGTAGTTCAGTTTATTGGCTGTACCACAAGGTAAC
CAACCATTAAAAAACTCTAAATGATATTTAGTTAAAGGGACTCTTGGTATCCAGACTTAGATTTTCAGGATATGCT
GAAACAAACCAGCATTCTTAAGGAAGTACTCACCTTCCTGAGCAAAATTTCTAAACAAGCATTGTGTCCAAAA
TTGTCTTGATAAATGTTTGCCAAAGAGGTTTCAGTAAGTGTCTTTCTAGTTCAGTAGTCATATGCCAGAAATGTA
AGAGAAAGTTTACTTCCAGTTCGGCTGTAAGATCTGCATGCCGTGACTTTCCAAATGTAAGAGTGATTTACAAAA
TGAATATTTCAAGGCATTTGCTACTAAAAATCGGTGATGTTGCACCTTTGGCCTTACAAATGCTTCTTTGTGT
GTCGTGTTTATTTGTTAGAGGACACACGTGTTAATGTGACTCTGTTGTTATGACACTGATTTTCAAACATATGTA
TGTTTCAGGTATTTCTGATGAAGTTTCATCATCATTTAGATTTTCTAAAAATCTGGCTAATGCAGTAGATTGAG
TGATGTCATTTTGTCTTAAAGTTTTCCTCTTAAGAAACATATGCTACGTATTTACGTGGGATTTCCAAAGCTTC
TGTTGCAATATTTGGAATAACATGTCAGATAAATGCATGGGCTTTTGTCTGTGTTCCAGTTCCTACTAGAGATG
CCTGTGTCTTGTGTAGCACACCCAGTGTTATGGTGACTGCCCTTATACTGAAGACTGAAAATATTTTCACAGTT
CACTCATCAAAATAGTTCCCAAAATTCGTCCATGCTGCTTATTGGGACAAATAGGTAGTACATTTTCCCCATTTA
AAAAATGCGGATTTTACTCAGGCCGGTAACTTTACAGTCAGAGGACACGTTTCATCATGAGTAGCTTTTGTAGTA
TGTTTTTAAATGTATCTTCAGTTCAATTATTTTACAGATTTACAAGACATCTGAAAATGGCTATTTTGCTACCAA
CAGTAAATGAAGGGGCTGTTTAAAAACCACAACCAGTTTCTACACTATTTTTTAAATAATACTTTTCATTGAAA
AAAAGGAATTAGTTTTTTCAGATACACTTCAGAGATTGAAGCAAATATTTGCCTTTTACTCAAAAAGCCTGCTTGCC
TTTACATGGACTTACCAGCAAAAATAGGTAGAACTTTCTCTTTTAAAAAAGTCAACTAGAATTGAGAAGAGGTGA
TTTTTTTTTTCAGATCGCTTCTCGAGTTTAAATATTTTACATTCTTTTACCCCTTTTCTCAATCTAGATTTAAAT
TAGGATATATGTCATTTCCCTGTCTGTATTTGTAGCTCCTTAGTTACCAGTATGCCTCTCCATTTTCTACAAATA
AGAGGTTATAACACATATACATAATTCTAACCTTAAGGGAACACACGTTTACATACTTTACTTCCCAAGCCCTTC
CTGTTTGGGGTACAGATTGAGAGAGTCATGAATCAACACATCTAGCAAGACCACAGGTGTAAGAGTCTAAGATCG
TCTTCAAAATCTGAAGTCCAGTCTTTACCTGTCCAGTGAATGAATATTCAGAGCAGCTTTTCTGGGCTTCCC
AGTGGTGATAGCTGAGGTCAAACCACAAAAATAAGAAAGCAAGAGTGAAATGCACCCCTCCAGAGAAACACTTT
GTAGTGTTTAAATCTGTTAATAGAGAAGAGCTGCTTCTGTTTGCCTCACTTCATCAGTGGCACCTTCTGCAGA
ATTTTAAATATAAAACATTATGGATATAATAGAAGTGGATTTTCTGACTTAAAAATGTAAGTTTATTTTAACTCT
TGAAACGTGGATTGTTTCTGTGGAGCTCTTAAACATGAGAAGAATACTTACGGTTGATAATGTGTAACATGATCT
GAAATGTGACTAATTGAGCCTCTTTGTCCCATCGTCTGTTTTTGAATTATTGACATTGTCAGTCTCTTTGCTT
CCTGGGTGAGACTTGGGGTTTGAGGGACAGGGAATGACCTTCTTGGTGAACTTAAAAATATAACATTGCAATTGC
AGTGACTTTACAGTGTTAAATTAGAGAAAATAGTCTGATTTTTTAAACCTTCCTTAACTGGAAAAAGTCAATG
GTTTTACCAGGATTGAAATAAACAGTCAATGTGACTTTTAAACATGTGTTTTTTTGAATAAAGGGCACGTACTCT
TCAATTAAAAAGTTCCTTATAGGGACTCTGGCAAATGCTAACACAGTTGCTTTACAATGTTTACAATTCAGACAA
TACGACTTATAATAGAAAATCCTCATTCAATTTAGCATTGAAAAGCTGGAAGTTGCTTCTTTAATGTTGAATAGTA
TACAGTGGTATTGAGCATGGACTTTCTAAATGTTTTATATATACATATAAAAAATATATTGGTGTCTCACACCCAG
AAAGATGTTATATTGTAGATATTATTAGGAAAACAGTGTTTCTCAGGAACGTTGTAAATTTTAAATGATATATGT
ACTTCCCGTCTCCACCTCCACTCTGTGCTCTAATGTGAGACTGCTTCAGCAGTGTTGCTAAGTTAATGGAAAA
CTTTTTCTAATCAAGTCAGGTGAATGTGTATTCTGCTAAATAATGTTAGCCATTTACATGAATTGTATGGTCATT
AAATGGAATCAGTGATTCTCTTTAATTTCCAGAGGGGAAATGAATTATGGAAATCAGTCAGCATTCTGATCATT
AAATTTTATACTTTAATTTTGGCGTTTCAGCATTCTAAATATCCAATGTGAAAGTCACATGATAATTTGTTTTGCA
TTGCGTGCCTGTACAACACTTACAACCTGTCAATTTAAAAATGTTTTCTCGGGAAATGAATGCTAGTCAGAAAGTA
ATAGATTGTATTATTCATAGTTTTTAAATATGACAATGTCATAATTACTACAAAGCTAAATAATCGTGTATTATT
TTTGTGAGTTGCCCTTTGATAGTTTCTGGTTTTTAAACCTATTAAAGTGATAATCTTACAAATAGTCATCTACA
AAATTTATGGAGAAAGTGCCAGCCCATTCACATCAGATGGACCAGGAATTTCTTTGTAAATGACTTAAAGGTAAC
ATCATGCAGTTTCAGTGCCTAATAAATGCTTTTTAATGATGAGCATTCTATAATGACTCGTAAGATACCATAGTC
TGATTTTTCTCACATTAATAAATACTGAAGTCACTGTGTAAACGTAGTTATACTTTGCTGCATTTTAAATTAACCTT

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FIGURE 1024C

CAACAGCTATTAAAGTGAATGTAAGTTAAATTTTGAAGGAAAGGAAATAAATGTTTTCCATATTTTCGTCTTGAT
TTACTTTCTGTATGAGAACAGCTGTGTTTTTGATAGGTTTATGGTTTGCATGAGTTCATATTTAAAGTGATCCAG
GCCAATGCATGGCTATTGCTGTAAATCTTGATGTTTATTTCTGCCTTGTAAGTTCTATCACGGCCTACCTGGAA
TTTAAATTCAGTAGACAAATTAATTGGTCCTCTGCACAACTTTTTTAATAAGTAGATTATTTTACAAAGAAATT
TGAACAAATTTAATTGAATCTTTTGTTTAGCTTGCCCTCTAAGAACTTTTCTTAATAAAGCTCCCAAACTTCTCA
AAATAAATCTCCCTTAAGTAGGAAAACCTAGATTTTCATATTTGCTTACTTTGAATTAACAGCAACTTTCCACAG
AAATCTGTTCTTGCAAAGATGTGAGCAGAATAGTTAAAAATAATTTTTATGTTTCATGGTTCTAAATGGAA
GCATAAATGCAGTAAATACTATCTGTTGTTTAACTACTTTAATCGTCATTTTTTACATTTTCAAGTTTATTAGG
TTAAGAAAAACAGGGCAGCCTTGGAAGGCAGCTACTACAGAAAACCTGCAGTTTTGCGTTAAAGATAAAGTAGTAT
TCAGCTCCCTGAAAAACCATTCCTGCTGAAACTGCTGTAGAAATTGTGAAGCTGCATGAGTGGAGAGTATTGA
TGTGGTTATAGTAGTTTTCTCAGGTTTGTTTATCTTGATGTTTGATGCACTGTGTTTTATAGTTATTAAAT
AGTAATATTATTTCTATGCAGTGTTATGTGTCATTGGCCTTTTGTGAATGTGCATGTTTTAAACTGCAAATTT
AACATTTTGTCCCTCTAATTGTTATTAAAAATGAAATAAACTTTACCATTACTTAAAAAAA

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FIGURE 1025

MPTMRRTVSEIRSRAEGYEKTDVSEKTSLADQEEVRTIFINQPQLTKFCNNHVSTAKYNIITFLPRFLYSQFRR
AANSFFLFIALLOQIPDVSPTGRYTTLVPLLFILAVAAIKEIIEDIKRHKADNAVNNKQTQVLRNGAWEIVHWEK
VAVGEIVKVTNGEHLPADLISLSSSEPQAMCYIETSNLDGETNLKIROGLPATSDIKDVDLSLMRISGRIECESPN
RHLYDFVGNIRLDGHTVPLGADQILLRGAQLRNTQWVHGIVVYTGHDTKLMQNSTSPPLKLSNVERITNVQILI
LFCILIAMSLVCSVGSIAIWNRRHSGKDWYLNLYGGASNFGLNFLTFIILFNNLIPISLLVTLEVVKFTQAYFIN
WDLDMHYEPTDTAAMARTSNLNEELGQVKYIFSDKTGTLTCNVMQFKKCTIAGVAYGHVPEPEDYGCSPDEWQNS
QFGDEKTFSDSSLLENLQNNHPTAPIIYEFLTMMAVCHTAVPEREGDKIIYQAASPDEGALVRAAKQLNFVFTGR
TPDSVIIDSLGQEERYELNLVLEFTSARKRMSVIVRTPSGKLRLYCKGADTVIYDRLAETSKYKEITLKHLEQFA
TEGLRTLCTFAVAEISESDFQEWRAVYQRASTSVQNRLKLEESYELIEKNLQLLGATAIEDKLQDQVPETIETLM
KADIKIWILTGDKQETAINIGHSCKLLKKNMGMIVINEGSLDGTRETLRHCCTTLGDALRKENDFALIIDGKTLK
YALTFGVRQYFLDLALSCKAVICCRVSPLOKSEVEMVKKQVKVVTLAIGDGANDVSMIQTAVGVGIGSNEGLQ
AANSSDYSLAQFKYLKNLLMIHGAWNYNRVSKCILYCFYKNIVLYIIIEIWFAFVNGFSGQILFERWCIGLYNVMF
TAMPPLTLGIFERSKRKENMLKYPELYKTSQNALDFNTKVFVWHCLNGLFHSVILFWFPLKALQYGTAFNGKTS
DYLLLGNFVYTFVVITVCLKAGLETSYWTWFSHIAIWGSIALWVVFLLGIYSSLWPAIPMAPDMSGEAAMLFS
FWMGLLFIIPVASLLLDVVYKVIKRTAFKTLVDEVQELEAKSQDPGAVVLGKSLTERAQLLKNVFKKNHVNLYRSE
SLQQNLLHGYAFSQDENGIVSQSEVIRAYDTTKQRPDEW

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FIGURE 1026A

CGCCCTTAGCCGATCGGGGCGCTCAGCCCACACGCACCGCTGCTCGGGGCTTGGAGATCCGCGCAGGCTGGGCTC
CCGGACGCGGCGGACCGACGCGCGGAGGATCGGGATCCGGCGCTGTGGGGCTGGGGTGGGCGGGGAGGCTGGGC
CCGGGGCCTCTGGCGCGACACCCGCATGAGGACGCGAGTGAAAATAGACCAAGGTGGAATTTCCAAGGGAAAAGCT
TCGGGGTGGTTTTTGGTCCATTTCTCCAGCGAAGAAGTAGACATGGCGAGCGACTCCCCGGCTCGAAGCCTGGATG
AAATAGATCTCTCGGCTCTGAGGGACCCTGCAGGGATCTTTGAATTGGTGGAACCTTGTGGAAATGGAACATACG
GGCAAGTTTTATAAGGGTCGTTCATGTCAAACCGGGCCAGCTTGAGCCATCAAGGTTATGGATGTACAGGGGATG
AAGAGGAAGAAATCAAACAAGAAATTAACATGTTGAAGAAATATTCTCATCACCGGAATATTGCTACATACTATG
GTGCTTTTATCAAAAAGAACCACAGGCATGGATGACCAACTTTGGTTGGTGATGGAGTTTTGTGGTGCTGGCT
CTGTACCCGACCTGATCAAGAACACAAAAGGTAACACGTTGAAAGAGGAGTGGAATGCATACATCTGCAGGGAAA
TCTTACGGGGGCTGAGTCACCTGCACCAGCATAAAGTGATTTCAGAGATATTAAAGGGCAAAATGTCTTGCTGA
CTGAAATGCAGAAGTTAACTAGTGACTTTGGAGTCAGTGCTCAGCTTGATCGAACAGTGGGCAGGAGGAATA
CTTTCATTGGAACCTCCTACTGGATGGCACCAGAAGTTATTGCCTGTGATGAAAACCCAGATGCCACATATGATT
TCAAGAGTGACTTGTGGTCTTTGGGTATCACCGCCATTGAAATGGCAGAAGGTGCTCCCCCTCTCTGTGACATGC
ACCCCATGAGAGCTCTCTTCTCATCCCCCGGAATCCAGCGCCTCGGCTGAAGTCTAAGAAGTGGTCAAAAAAAT
TCCAGTCATTTATTGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGACCAGCAACAGAACAATTGATGAAGCATC
CATTTATACGAGACCAACCTAATGAGCGACAGGTCCGCATTCAACTCAAGGACCATATTGATAGAACAAGAAGA
AGCGAGGAGAAAAAGATGAGACAGAGTATGAGTACAGTGGAAGTGAGGAAGAAGAGGAGGAGAATGACTCAGGAG
AGCCCAGCTCCATCCTGAATCTGCCAGGGGAGTCGACGCTGCGGAGGGACTTTCTGAGGCTGCAGCTGGCCAACA
AGGAGCGTTCTGAGGCCCTACGGAGGCAGCAGCTGGAGCAGCAGCAGCGGGAGAATGAGGAGCACAAGCGGCAGC
TGCTGGCCGAGCGTCAGAAGCGCATCGAGGAGCAGAAAGAGCAGAGGCGGGCGGCTGGAGGAGCAACAAAGGCGAG
AGAAGGAGCTGCGGAAGCAGCAGGAGAGGGAGCAGCGCCGGCACTATGAGGAGCAGATGCGCCGGGAGGAGGAGA
GGAGGCGTGCGGAGCATGAACAGGAATACATCAGGCGACAGTTAGAGGAGGAGCAGAGACAGTTAGAGATCTTGC
AGCAGCAGCTACTGCATGAACAAGCTCTACTTCTGGAATATAAGCGCAAACAATTGGAAGAACAGAGACAAGCAG
AAAGACTGCAGAGGCAGCTAAAGCAAGAAAGAGACTACTTAGTTTCCCTTCAGCATCAGCGGCAGGAGCAGAGGC
CTGTGGAGAAGAAGCCACTGTACCATTACAAAGAAGGAATGAGTCCTAGTGAGAAGCCAGCATGGGCCAAGGAGG
TAGAAGAACGGTCAAGGCTCAACCGGCAAGTTCCCTGCCATGCCTCACAAGGTTGCCAACAGGATATCTGACC
CCAACCTGCCCCCAAGGTGCGAGTCCTTCAGCATTAGTGAGGTTTCAGCCTGCTCGAACACCCCCCATGCTCAGAC
CAGTCGATCCCCAGATCCCACATCTGGTAGCTGTAAATCCCAGGGACCTGCCTTGACCGCCTCCCAGTCAGTGC
ACGAGCAGCCCCACAAAGGGCCTCTCTGGGTTTTAGGAGGCTCTGAACGTGACCTCCCACCGCTGGAGATGCCAC
GCCAGAACTCAGATCCCACCTCGGAAAATCCTCCTCTCCCCACTCGCATTGAAAAGTTTGACCGAAGCTCTTGGT
TACGACAGGAAGAAGACATTCCACCAAGGTGCCTCAAAGAACAACCTCTATATCCCCAGCATTAGCCAGAAAGA
ATTCTCCTGGGAATGGTAGTGTCTGGGACCCAGACTAGGATCTCAACCCATCAGAGCAAGCAACCCTGATCTCC
GGAGAACTGAGCCCATCTTGGAGAGCCCCCTTGAGAGGACCAGCAGTGGCAGTTCCTCCAGCTCCAGCACCCCTA
GCTCCAGCCCAGCTCCCAAGGAGGCTCCCAGCCTGGATCACAAGCAGGATCCAGTGAACGCACCAGAGTTCGAG
CCAACAGTAAGTCAGAAGGATCACCTGTGCTTCCCCATGAGCCTGCCAAGGTGAAACCAGAAGAATCCAGGGACA
TTACCCGGCCCCAGTCGACCAGCTAGCTACAAAAAAGCTATAGATGAGGATCTGACGGCATTAGCCAAAGAATAA
GAGAACTCCGGATTGAAGAAACAACCGCCCAATGAAGAAGGTGACTGATTACTCCTCCTCCAGTGAGGAGTCAG
AAAGTAGCGAGGAAGAGGAGGAAGATGGAGAGAGCGAGACCCATGATGGGACAGTGGCTGTACGCGACATACCCA
GACTGATACCAACAGGAGCTCCAGGCAGCAACGAGCAGTACAATGTGGGAATGGTGGGGACGCATGGGCTGGAGA
CCTCTCATGCGGACAGTTTCAGCGGCAGTATTTCAAGAGAAGGAACCTTGATGATTAGAGAGACGTCTGGAGAGA
AGAAGCGATCTGGCCACAGTGACAGCAATGGCTTTGCTGGCCACATCAACCTCCCTGACCTGGTGCAGCAGAGCC
ATTCTCCAGCTGGAACCCCGACTGAGGGACTGGGGCGCGTCTCAACCCATTCCCAGGAGATGGACTCTGGGACTG
AATATGGCATGGGGAGCAGCACCAAGCCTCCTTACCCCCCTTTGTGGACCCAGAGTATACCAGACGTCTCCCA
CTGATGAAGATGAAGAGGATGAGGAATCATCAGCCGCGAGCTCTGTTTACTAGCGAACTTCTTAGGCAAGAACAGG
CCAAACTCAATGAAGCAAGAAAGATTTCCGGTGGTAAATGTAAACCCAACCAACATTGGCCCTCATAGCGACACAC
CAGAAATCAGAAATACAAGAAACGATTCAACTCAGAAATACTTTGTGCAGCTCTGTGGGGTGTAAACCTTCTGG
TGGGGACTGAAAATGGCCTGATGCTTTTGGACCGAAGTGGGCAAGGCAAGTCTATAATCTGATCAACCGGAGGC
GATTCAGCAGATGGATGTGCTAGAGGGACTGAATGTCTTGTGACAATTCAGGAAAGAAGAATAAGCTACGAG

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FIGURE 1026B

TTTACTATCTTTCATGGTTAAGAAACAGAATACTACATAATGACCCAGAAGTAGAAAAGAAACAAGGCTGGATCA
CTGTTGGGGACTTGGAAGGCTGTATACATTATAAAGTTGTTAAATATGAAAGGATCAAATTTTTGGTGATTGCCT
TAAAGAATGCTGTGGAAATATATGCTTGGGCTCCTAAACCGTATCATAAATTCATGGCATTAAAGTCTTTTGCAG
ATCTCCAGCACAAAGCCTCTGCTAGTTGATCTCACGGTAGAAGAAGGTCAAAGATTAAAGGTTATTTTTGGTTCAC
ACACTGGTTTCCATGTAATTGATGTTGATTACAGGAACTCTTATGATATCTACATACCATCTCATATTCAGGGCA
ATATCACTCCTCATGCTATTGTTCATCTTGCCATAAACAGATGGAATGGAAATGCTTGTTTGTATGAGGATGAGG
GGGTGTATGTAAACACCTATGGCCGGATAACTAAGGATGTGGTGCTCCAATGGGGAGAAATGCCACGTCTGTGG
CCTACATTCATTCCAATCAGATAATGGGCTGGGGCGAGAAAGCTATTGAGATCCGGTCAGTGGAACAGGACATT
TGGATGGAGTATTTATGCATAAGCGAGCTCAAAGTTAAAGTTTCTATGTGAAAGAAATGATAAGGTATTTTTTG
CATCCGTGCGATCTGGAGGAAGTAGCCAAGTGTTTTTCATGACCCTCAACAGAAATTCATGATGAAGTGGTAAC
AGAAGAGCACTTGGCACTTATCTTCATGGCGTTATTTCTAATTTAAAGAACATAACTCATGTGGACTTATGCCA
GTCTAGAGGCAGAATCAGAAGGCTTGGTTGAACATATCGCTTTCCCTTTTTCTCTCCCTCCGCCCCCTCCAGTA
CAGTCCATCTTTCAATGTTGCAGCCTGGTTGAGAAGGAGAGAAAAAGGTGGCAGGAATTTCCAGGAGATCCCCAA
GAATGCTGCCTTGCTGTGTGGACAAAGATGGACCATGTGCCCTTCGGAATTAGGGATAGAAACAAATATTGTGTGC
TCTTAACGATTAAGCTGTGTTATGGTGGGTTTTACAGTTTTTACCTTTTTCTTTACCCCTTTACTCTGCAAGAA
TGGGGAAGAATGCATACTGCGAAAATGAGTCTTTTAAATCTGTCTGCCTACTAGTTTTAAGTATATGGTATGT
TGTAATAATTTCCAATGATGAGAGACAGCACATAAATGTACCTTATCTCCTTAGGCTGAAGGCCATAACTACATA
GTGGAGTAATTTAAGAACTCTCTTGCCCTCACCAACCCAAAAGGTTGCTTTTTGATAGCAACTGGCTAATGAATT
TTTTAAAAGAGAAGAAAAATACTAGTTTTCCCTCTTTTGGGAAATAGATTTTAAATGGCTAAACTACTAGCCTT
AAACTACTAGTCTAATAAAATCAACTACCACTTTTGTGAATCTGACAGGCCACATTTTTATATGGCCCTTTACA
GAATGGAGTGTGTTGAACAGGATACTAACGCCATTGAGTTGAGCTGGCCTAGCGATGGAGGGACACTCTAACACA
ACTTTCCCTCAGCTATTATGCAACAGATCAGGGAAAAAGATGGGATGACAGATGGGGTCAGACAGAAAGAGCTTC
TGGGAAACAAGCTTACATAGTCTTTTTTAAATGCACAAAGCCTCCAGCTAAGAGGTCACCTGGTTTGGGCTTC
ATTAGGACTGAGACTTTTGTGAGTTCTTCTGGGACTTGGAGAGTGGATGATATTCAGGCTCTGAACATTCCCAG
CGCTCTCCCGAGGGTGCCACTTCTCAAGATGAAAACGTGTGACTGAAAAAATTAATAATAAATGTTTCTGAGCTG
CCTGTGTTCTCCCTGTGTGGGTGAGAGAAGGGACTAGACTCCTAAGCCTGCCTCAGATACAAGAGGCATCATTGG
CTCCAATTTTAGAGAACTTGAAAGCAAGGCTTTGGACAAAATTTTGGAGCCCTAATCACTTTACCTTCTCCAAA
TTACCCAACATACGGTAAACAACATTTGTGCAGAAGTATGTATGTATTTAGTTTCAGGTTGACTTGTGTCCTTATA
AACTCTTACTCAAATGATTGAACTTT

[illegible]

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FIGURE 1028A

GGACAAAGTGAATACGGCTTTGCTGAAAAAGTAGTTGAGGGAATTTCTGTTTCTGTAAATTCATAGTCATCAGA
ATTGGAGCAAAAGCCTTCAATGCATCATTGAACTTTCTCAGCTTCGGATCTATAGTGTAATGCACACTGGGAA
CATGGAGATTTGAGATTTACTCGTATTCAGGATCCACAGAGAGAGAGGTTTGGACTTTTAAAGAAATAAATTGG
CAGATGATAAGAATAGAGGCAGATGCCACCCAAAGTTCACATCTTGAAATTATGTGTGCTCCTGTTTCGATTAATA
ACCAACCAATCAAAAATCAGAGTCACACTTAAAGAAGGTTAAAGGACTGCAATGTCATAGCAACAAAGTTAGTT
CTAATATTGGATGACTTATTATGGGTTTTGACTGATTCCAGTTGAAAGCTATGGTACAATATGCAAAGTCTCTT
AGTGAAGCAATAGAAAAATCAACAGAACAAAGGAAGAGTATGGCTCCTGAACCTACACAGAGCTCTACAGTAGTC
GCATCTGCCCAGCAAGTGAAGACAACGCAAACTTCAAATGCTCCTGATGTAAATGATGCAATTGTGAAACTATTC
AATGATTTTGATGTAAAGGAAACCTCCCATCATTTAGTGATTTCTCATCTAGATCTACACATATGTGATGACATT
CATGCTAAAGAAAAAGAGTCAAACAGACGTATTACTGGAGGGGCAATGCAACTCTCTTTTACACAGCTAACTATA
GATTATTATCCTTATCATAAAGCAGGAGATAGTTGTAATCATTGGATGTATTTTAGTGATGCAACCAAAACAAAA
AATGGATGGGCCAATGAGTTATTGCATGAATTTGAGTGCAACGTTGAAATGCTTAAACAGGCTGTGAAGGATCAT
AATGTAGGTTACCTCCTAAATCCCCAACACATGCCTCTCCCCAGCACACACAAACAGAGAAGGACTACCCTCTG
AAAGGGACATGCAGAACACCTTCAGTATTATCTCAACAATCAAAGCTAAGCTAATGTCTAGTTCTGTTGTGGTT
AGACTTGCAGATTTCAATATATACCAGGTCTCTACAGCGGAACAATGTCGTTCTTCCCCCAAAGCATGATTGC
TGCAATAAAAAATCCCTATATCTTCCACAAGAAATGTCAGCTGTCTATATAGAATTCACAGAATATTACTATCCA
GATGGAAAGGATTTTCCAATTCCATCTCCCAACCTCTATAGCCAGCTGAATGCACTACAGTTTACTGTGGATGAA
AGAAGCATTCTATGGTTAAATCAATTTCTGTTGGATTTAAACAGAGTCTTAATCAGTTTCATGGCTGTGTACAAG
TTGAATGACAATTCAAAATCTGACGAGCATGTTGATGTTTCAGTTGATGGCTTAATGCTAAAGTTTGTCAATTCCT
TCTGAAGTGAAATCTGAATGTCATCAAGATCAGCCACGTGCAATTTCTATTTCAGAGTTCTGAAATGATTGCCACA
AATACAAGGCACTGTCCAACTGTGACATTCTGACCTAGAAGCTTTGTTTCAAGACTTTAAAGATTGTGATTTT
TTTAGTAAAACATATACCAGCTTCCCCAAATCTTGTGACAATTTAATCTTCTACATCCAATTTTCCAGAGACAT
GCTCATGAACAAGATACCAAAATGCATGAAATTTATAAAGGAAATATTACTCCCCAATTGAATAAAACACTCTT
AAAACCTTCTGCTGCCACGGATGTTTGGGCTGTGTACTTTTCTCAATTTTGATAGATTATGAAGGGATGAAAAGT
GGAAAAGGACGGCCAATAAGTTTGTAGACTCATTCCCTCTTCCATTTGGATTTGTCAACCAACAAGATATGCA
GAGTCACAAAAGAGCCGCAGACTTGTAAATCAGGTATCTCTAAATACATCACAAAGTGAATCTAGTGATCTGGCT
GGCCGATTGAAGCGGAAGAAGCTCTTGAAGGAGTATTATAGTACAGAGTCTGAGCCTTTGACAAATGGTGGTCAG
AAGCCTTCTTCATCAGATACATTTTTCAGATTTTCCCTTCTCTCGTCAGAGGCAGATATTCATCTCCTAGTTCAT
GTTCTATAACATGTCAGTATGCAGATTAATCACTACCAGTATCTGCTTCTACTTTTCTGTCATGAGTCACTTATC
CTGCTTTTCAGAGAACTTAAGGAAAGATGTAGAAGCTGTAAGTGGCAGTCTGCTAGTCAGACATCCATTTGTATT
GGAATTTTACTTAGAAGTGCAGAACTGGCTCTTTTGTCTCCATCCAGTGGATCAAGCAAATACTCTTAAGTCTCCT
GTTTCTGAAAGTGAGGCCAGTGGTACCTGATTATTTGCCTACAGAAAATGGGGATTTTTTGTCTTCAAAAAGA
AAACAAATTAGTAGGGATATAAATAGAATTAGAAGTGTAAGTGTAAATCATATGTCAGACAACAGATCTATGAGT
GTTGACCTTAGCCATATCCCTTTAAAGGATCCTTTGCTTTTTAAATCAGCTAGTGATACAAATCTGCAAAAAGGC
ATTTCTTTTATGGACTATTTATCAGATAAACATTTAGGGAAAATAAGTGAAGATGAAAGTAGTGGACTTGTTTAC
AAAAGTGGCTCAGGAGAAATTGGATCAGAAACAAGTGACAAAAGGATTCAATTTTATACAGATTCAAGTAGTATC
TTAAACTACAGAGAAGATTGCAATATACTTTTCAATTTGATAGTGATGGTAATCAAAACATACTTTCAAGTACTTTA
ACTAGTAAAGGAAATGAAACCATAGAGTCCATCTTTAAAGCTGAAGATTGCTTCCAGAAGCAGCTTCACTCTCT
GAAAACCTGGATATCAGTAAAGAAGAGACCCCCCAGTTAGAACACTTAAATCACAGTCACTTTAAGTGGAAAG
CCTAAGGAACGTTGCCACCCAACCTGGCTCCTCTCTGTGTTTCTTATAAGAATATGAAAAGAAGCTCTTCACAA
ATGTCATTGGATACCATTTCACTTGACAGCATGATATTGGAAGAACAGTTATTAGAAAGTGATGGAAGTGATAGC
CATATGTTTTTGAAAAAGGAAATAAAAAGAACTCAACTACAAATTACAGGGGCACAGCAGAAAGTGTAATGCT
GGTGCAAACCTACAGAATTATGGTGAACTTCTCCAGATGCCATCAGTACAAATTCAGAGGGTGCTCAGGAAAAT
CATGATGACCTGATGTCGGTTGTGGTATTTAAATTACTGGTGTTAATGGGGAAATTGACATCCGAGGGGAAGAT
ACAGAAATCTGTCTTCAAGTGAACCAGGTGACACCAGACCAATTAGGCAATATCAGCCTTCGGCATTACCTTTGT
AATCGTCCAGTTGGTTCGGATCAGAAAGCTGTAATTCATTCCAAATCCTCTCCTGAGATTTCTCTGAGATTTGAA
AGTGGGCCTGGTGCTGTAATACACTCTTTACTTGCAAAAAAATGGATTCTGCAGTGCCACATAGAAAACCTTC
AGCACTGAGTTTCTTACATCTTCTCTTATGAATATTCACATTTTTTGGGAAGATGAACTGTTGCAACAGTAATG

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FIGURE 1028B

CCAATGAAGATACAAGTTTCTAACACGAAAATAAATTTAAAAGATGATAGTCCCCGGAGTAGTACAGTATCCCTT
GAACCAGCTCCTGTAAGTGTACATATTGATCATCTTGTGGTAGAGAGAAGTGACGATGGCTCTTTTCATATCAGA
GATTCTCACATGCTTAACACTGGAAATGATTTGAAAGAAAATGTCAAAAGCGATTTCAGTGCTGCTGACCAGTGGA
AAGTATGATCTGAAGAAACAACGCAGTGTACGCAAGCCACTCAGACAAGCCCAGGGGTTCCCTTGGCCTTCTCAG
ACTAACTTTCTGAGTTCTCCTTTGACTTCACTAGGGAACAGCTCATGGAAGAGAAATGAATCTCTTAAACAG
TGGCTAAAGCTAAAATGGCTCTTGCAGAGGCTCACTTGGAAAAAGATGCTCTTCTTCATCATATAAAGAAG
ACAGTTGAATAGCAGGAGTGGCAGTCAAACTGAAATTATAGCTCTGGAGTAGGAAGGTTATATTTATAATG
TGGATGTTACCAGTTAGGGGAAGACTTTTATTTTCATGAAAAGACAATAAAACAAAATGGAATGTGATGAAGTGG
ACTATTTCAAAGCCAGTTTAGAAAGTATTAGTACGGGCATTACAATCTTTTGGTTGTTTTGTGTTTTGGGGCT
ACTCTCTTTTAAGCTGTTGTGATCTAGGGAAGTCAACACATAGTGTAATAATTACATGCCTAATGAAAAGA
ACTCATTTTCTAATTTTGATATCTCATTTTCGGCATTTTTTAAATGTAAAAGGAAAACCTCTTGTGTTTAC
GATTGCTGAATTGATTTCTCCATATTTGTTAATAATTTACTATTATTACAAAGATTCAAATGCTTTTATGA
AATGTAAAATGAAAAGAGGCTTACATTTTAAATGTTATTAATAATTATGTACTTAAATCTATAATTATTTAATT
ATGTAAAAAGTCCAAGCAGATCAATAAACTATATAATTAATGGGTTTGG

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FIGURE 1029

CGGTCCGGACAGCCGCGCGCTGAGGGTCTCGGGGCGGGCGCCGCGGGACCTCTCCGGGCCATGGCAGCCCCCTGTC
AAAGGGAACAGGAAGCAGTCCACGGAGGGTGACGCCCTAGACCCACCTGCATCCCCCAAACCTGCTGGCAAGCAG
AACGGAATCCAGAACCCCATCTCGCTGGAGGACTCCCCGAGGCAGGCGGGGAGCGGGAGGAGGAGCAGGAGCGG
GAGGAGGAGCAGGCCTTCTGGTCAGCCTCTACAAGTTCATGAAGGAGCGACACACGCCCATCGAGAGGGGTGCCC
CATCTCGGCTTCAAGCAGATTAACCTGTGGAAGATCTACAAAGCAGTGGAGAAGCTGGGGGCCCTATGAGCTGGTG
ACCGGGCGCCGCTCTGGAAGAACGTGTACGACGAGCTGGGGGGCAGCCAGGCAGCACCAGCGCGGCCACGTGC
ACGCGCCGCCACTACGAGAGGGCTGGTCCCTGCCATACGTGCGGCACCTGAAGGGGGAGGATGACAAGCCGCTGCCC
ACCTCCAAGCCCAGGAAACAGTACAAGATGGCTAAGGAGAACAGGGGGGATGATGGGGCCACCAGAGGGCCGAAG
AAGGCCAAGGAGGAGCGGCGCATGGACCAGATGATGCCAGGAAAGACCAAGCAGATGCTGCTGACCCAGCACCA
CTTCCCAGCCAGGAGCCCCCAGGAACAGCACAGAACAGCAGGGCCTGGCCTCTGGGTCTTCTGTGTCCTTTGTG
GGTGCCAGCGGCTGTCTTGAGGCCTACAAGCGGCTCCTATCCAGCTTCTACTGCAAGGGGACACACGGCATCATG
TCACCACTGGCCAAAAAGAGCTCCTGGCCCAGGTGAGCAAGGTGGAGGCCTTGCACTGCCAGGAGGAGGGCTGC
CGCCATGGGGCAGAGCCCCAGGCGTCCCCAGCTGTTACCTCCAGAGAGTCCCCAGAGCCCCAAAGGGCTGACT
GAGAACTCCAGGCACCGGCTGACCCCTCAGGAGGGATTGCAGGCCCCAGGTGGCAGCCTCAGAGAGGAGGCGCAG
GCAGGCCCCCTGCCCGGCAGCCCCCATCTTCAAGGGCTGCTTCTACACCCACCCACCGAGGTGCTGAAGCCTGTC
AGCCAGCACCCCAGGGACTTCTTCTCTAGACTTAAAGATGGGGTGCTATTGGGGCCTCCTGGCAAAGAGGGGCTG
TCAGTGAAAGAGCCCCAGCTGGTGTGGGGCGGAGACGCTAACC GCCCTTCTGCGTTCCATAAAGGTGGCTCCAGA
AAGGGCATCCTCTACCCCAAGCCCAAGCCTGCTGGGTGTCCCCCATGGCCAAGGTCCCAGCCGAGAGCCCCACG
CTCCCGCCACCTTCCCCAGTAGCCAGGCCTGGGCAGCAAGCGCAGCCTGGAGGAAGAGGGTGCTGCCCACAGT
GGGAAGAGACTGCGGGCCGTGTCTCCCTTTCTTAAGGAGGCGGATGCCAAGAAGTGTGGGGCCAAACCTGCAGGG
TCCGGCCTGGTCTCCTGCCTTCTGGGCCCAGCCCTGGGGCCTGTGCCCCAGAGGCCTACAGGGGCACCATGCTG
CACTGCCCCGCTGAACCTTCACTGGCACCCCCGGGCCCCCTGAAGGGCCAGGCTGCACTCCCCTTCAGCCCCCTGGTC
ATCCCGGCCCTTCCCGGCCACTTCTTGCCACCGCAGGCCCCCTCGCCCATGGCCGCTGGCCTGATGCACTTCCCC
CCAACGTCCTTCGACAGTGCCCTCCGCCACAGACTTTGCCCGGCTCATCTGCCTGGCACGCACCACAGTCACA
ACCTATGCAGCGCCCCACTTCTTCCACCTCAACACCAAGCTGTAGGCCAGCCCATGGTGTGTGTACACTGTGGA
GTCGACAGGGGCCTACAACAGGCAGGTACTGCTGCCAGGGGGCTCTGAACTAGTGCCTGCTACCCAGGACACCCG
GGCCATGCCCTGGCTGGGCAGCCTGGCACAAGTGAAGAAGAAGGCAGTGGGAAAAGTGGGTTTATCTCAAGGCA
GCAGCCTGAGCCAGGAGCAGAGGACCCAGTTGTATATAAGGCGCTGGGAGAGGATGGGCAGCTCCCACTGCCCCA
GAGCGGASSTCGAAGCACCCAGGTTGCCCACGGAAAATCCAATAAAAAGACACCAGTGTGAATCCAAAAAAA

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FIGURE 1030

RSGQPRAEGLGAGAAGPLRAMAAPVKGNRKQSTEGDALDPPASPKPAGKQNGIQNPISLEDSP EAGGEREEEQER
EEEQAFVLVSLYKFMKERHTPIERVPHLGFKQINLWKIYKAVEKLGAYELVTGRRLWKNVYDELGGSPGSTSAATC
TRRHYERLVLPYVRHLKGEDDKPLPTSKPRKQYKMAKENRGDDGATERPKKAKEERRMDQMPGKTKADAADPAP
LPSQEPPRNSTEQQGLASGSSVSFVGASGCPEAYKRLSSFYCKGTHGIMSPLAKKKLLAQVSKVEALQCQEEGC
RHGAEPQASPAVHLPESPQSPKGLTENSRRHLTPQEGLOAPGGSLREEAQAGPCPAAPIFKGC FYTHPTVLKPV
SQHPRDFFSRLKDGVLGPPGKEGLSVKEPQLVWGGDANRPSAFHKGGSRKGILYPKPKACWVSPMAKVPAESPT
LPPTFPSSPGLGSKRSLEE EGAHSGKRLRAVSPFLKEADAKKCGAKPAGSGLVSCLLGPALGPVPPEAYRG TML
HCPLNFTGTPGPLKGQAALPFSPLVIPAFPAHFLATAGPSPMAAGLMHFPPTSFD SALRHRLCPASSAWHAPPVT
TYAAPHFFHLNTKL

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FIGURE 1031

GATTTCTTTTAGTCATGTTGATTTGATTTTCAGTTTCTGGCTATGAAAAACATTTTAACTCGTCACCCACAACA
AACTGAACAAAACCTACTACAGTGAAAGCCCTTTTCAGTGAAAGATGTCAGAAACCTCAAAACCTTTGGCCTGACT
CAGAACTACCATGTGAAAATCAGTACTCTCTTAATGTTTGAAATAAAAACTGAAAAAAAAAACAAAAACA
AACCTTTTTTTGAAGCACCTTAACGTGGCCATCCATTTGAGAAGTGGGTGCCACTTTTTTTCTTTGAGCACCTTAT
TGATGTGTTTGCTATCTGCTGTCTTTCTGTTACCTGTTGGCTGAATGGCTAGCTGTTAACATATACATGTGCACA
GAAGAGATATCTGGGCATGTATGTTCTCAATGAAGTTTACTGTGGTGACTGCTGAAAGGTGAACCCATTTCTGA
TTTTTCCCGCCGAGTGTTGTGATAAGATTGGAAGAAACCTTTTTCCCTGCACAGAAATGTTTCTTATCACATTG
TATCTTAGTATGGAAAGGAATATGGTCCCTTTTTTGCAATTGCTACTGTGTACACACACACACACACACACAC
ACACACACACACACACTCTGTATGTTTAGACCTAAAATACACACACCCACGCACACACTGTATGTTTATGTGA
CCTAAACATACACACATGCACACACACATACATATCCATTCAATTCATTCAAGTGGTGTTCAGTGCTCTG
TGTGTCAGTGTATGTCAGTTTCCATTTCCAGTGAATTATGAGTGGAGGGCAACTTTTCTAACCAGATTGTCTT
TTCAGAACAAAGACCTGGGAATTGAGGAAGAGTTTGGAAGAGGGAGAGGCAAGGAAAGAGAGCTTTAAATTGAA
AGGTTAATTTCTAAGAGGAACCTGGGCTGAATGACTACAGTGTATACCCTCCAATCTTTGAGGTGGGCATGG
AACACTGCTTGTATCACTCTGTGCACGGTATAAATCCATATATCCACAAAAACACACATCCATCCATCAACATAT
ACATGGTTTGGGATGAGCAGGTCAATAGTTTTGAGAGGGAGTTTGTTCCTTTTTTTTCTCATTATACTCTTAA
TTGTTGTCAGTTATCAAACAAACAAACAGAAAAATTGTTTGAAAAACCTTGCATACGCCTTTTCTATCAAGTGC
TTTAAATATAGACTAAATACACACATCCTGCCAGTTTTTCTTACAGTGACAGTATCCTTACCTGCCATTTAAT
ATTAGCCTCGTATTTTTCTCACGTATATTTACCTGTGACTTGTATTTGTTATTTAAACAGGAAAAAAAAACATTCA
AAAAAGAAAAATTAAGTGTAGCGCTTCATTATACTATTATATTATTATTATTATTGTGACATTTTGAATACTG
TGAAGTTTTATCTCTTGCATATACTTTATACGGAAGTATTACGCCTTAAAAATACGAAAATAAATTTTACAAGGT
TTCTGTTTTGTGTGGAAGAGTAATTGATGTTGCTAAGAATGATGTTTGTTTTTTTGGGGTTTTTGTGTTTTTT
TTTAAATGTTACCAGCACTTTTTTTGTAAAGTTTCACTTTCCGAGGTATTGTACAAGTTCACACTGTTTGTGAAGT
TTGAATATGAAGGAATAATTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA
AAAAAAAAAAGGGCGGCCG

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FIGURE 1032

ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGCAGGACGGCCGG
ATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTGATCCTCTGTGACTGTGATGAGTTCAGAAAG
ATCAAGCCAAAGAAGTCCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCTCGGTCTGGTGTCTGCTGCGAGGGGAG
AATCTGGTCTCAATGACAGTAGAGGGACCTCCTCCCAAAGATACTGGTATTGCTCGAGTTCCACTTGCTGGAGCT
GCCGGGGGCCCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTTCCCATGCCCCAGGCTCCTGCA
GGACTTGCTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCACACAAGGAAGAGGTACTGTT
GCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCCAACCCAGTACCCACCTGGCCGTGGGGGTCTT
CCCCACCTATGGGCCGAGGAGCACCCCTCCAGGCATGATGGGCCCCACCTCCTGGTATGAGACCTCCTATGGGT
CCCCAATGGGGATCCCCCTGGAAGAGGGACTCCAATGGGCATGCCCCCTCCGGGAATGCGGCCTCCTCCCCCT
GGGATGCGAGGCCTTCTTTGA

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FIGURE 1033

MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMNLILCDCDEFKIKPKNSKQAEREKRVLGLVLLRGE
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVPMPQAPAGLAGPVRGVGGPSQQVMTPOGRGTV
AAAAAATASIAGAPTQYPPGRGGPPPPMGRGAPPPGMMGPPPGMRPPMGPPMGIPPGRGTPMGMPPPGMRPPPP
GMRGLL

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FIGURE 1034A

GGTCTTCAGGAGAGCCAGGAGAGGCCAGTTGTACGTGCCTGAAACATGAGGACTTCGAGTTGGCTTTCTTCTC
TTGACCAAGGGCGCAGACCCCGTGCTATTTCTCTCACGGAAGGTGATACTCCTTTGCATGCAGCACTCCACATC
TTTCTAGAGATTAAAGCTGACATTGGTTTTAGCTTCTCAGCCATCTGTTGGATCTGTTTTGGTCCAACCCCACT
GAATTGCACTACCTCAACCCCAATGTCCAGGACAGCAATGGGAACACGCTGATGCACATCCTCTTCCAGAAGGGC
AAGCTAAAGCGCGTGAAGAAGCTGTTAGACCTGCTGGTGAAGTTTGACATCAACTTCAATCTGAAGAACAAAGAG
AAAGATGCACGGCACC GGATTAAGAAGAACGACTCTCTGCTCTTGGCCTGGAACAAAGCTCTGATGGAGAAC
AGGAGGAGCCGGCAGGACTCTGCTGCCACCTGGGGAAGCTCTCAAAGTCCACTGCCCCTGGTCACACATCT
CAGCTCAAGTCCCAGGGTTCAATTCAAGTCAGTGCCATGTGGTGCCACTGCCAGAACACTGCCTGAAGGAAGTGCA
CTCCTGACAGCTGGGAGACTCTCCAGGTACCCAGGTGACCAGGAAGGAGCCTGGAGCTCTCAGGCCCTGCTCG
AGAGACTGCCTTATGCAGGACATCACAGTTTTGATTACAGAGGTTGAAGTGGATCCGTCTTTCCAGAGGAC
CTTTCAGAGCTCTGAGCCTCTGGAGGCAGGAGCTGGCAAAGAAGGAAAGAAAGATGACAAGCCGACTCTGGGT
AGGGGCCCTGACTGTAGTGAGGTGGGGGAAGGACATGCTCAGGTGGGTCTTGGGGCCTTGACAGCTTGTGCT
GATAACAGGGGGAAGGAGGGCAATGATGATCAGGATGACTGGAGCACGCAGGAGATTGAGGCCTGCCTCCAG
ACTTCGATAACATGACCTGGGAGATCGAGTGCACCTTCAGAAATGCTGAAGAAGCTGTCTAGTAAGGTAATGACC
AAGGTCATCAAGAAGAAAATCATCTTGCCATTACAGCAGCTGGGAAATGGCGAGTGGACCCAGGGCCTGCAGAAG
CGACTGAAGCACCTGAAAGGAAGCATCCAGCTCTTCGAAGCTAAGCTGGACAAAGGAGCCCGGATGCTCTGGGAG
CTCGCCATTGACTTCTCCCTCGATGCAGTGAGAACCCTGAGAAGATCATTGCCACGGAGCAGAACACGTGTGCA
ATGGAGAAATCAGGGCGGATCTACACGGAAATCATCCGATTGTTGGGACATCGTCTTAGATCACTGCAAACCTGGCT
GATTCCATCAAGGCCATCTGCAATGCCTACAACCGGGCTTGCTCTGTCTGCGGAAGAAGCTGAAAGGTATC
AATAAAGGCCAAGTGTGAGCTAACATGAAAATTCAAAAGCGTATACCTCGCTGCTATGTGGAGGACACAGAGGCC
GAGAAGGGCAGGGAGCATGTCAATCCTGAGTACTTTCCCCCAGCCAGTGCAGTGGAGACAGAATATAACATCATG
AAGTTCCACAGCTTCAGCACCAACATGGCCTTTAACATCCTCAATGACACGACAGCCACAGTGGAGTACCCCTTC
CGGGTGGGTGAGCTTGAGTACGCGGTGATCGACCTCAATCCCAGGCCACTGGAGCCCATCATCTTATTGGGCGA
AGTGGCACTGGGAAGACAACCTGCTGCTTGTACAGATTGTGGAAGAAATTCACGTTTACTGGGAAAAAGCTGAG
CAGGCAGGAAGCCCATTTGCTGGCCAAACAGGTCTGGCTGAAGAGAAGGTTGGAAGTGGAAACCCGGAAAAAGAGAGT
CCAGGTGGGGAGGAAGAGGGGGAGGAAGAGGACGAGGAAGAGGAAGATTCTATTGAAGTGGAAACAGTAGAAAGC
ATAGATGAGCAGGAGTATGAAGCCTGCGCAGGAGGAGCCGGTGTGGAGCCAGCAGGGGACGGCCAAGCTGCAGAA
GTATGTGCACCAGAACATCCCCACCAGCTGGAGCATTACATCAGATCTTTGTGACCAAGAACCATGTGCTGTGC
CAGGAGGTACAAAGGAATTTTATTGAGCTTTCCAAGTCCACCAAGGCCACTAGTCATTACAAACCACTGGACCCC
AACATTACAAACTCCAGGACCTGAGGGACGAGAATTTTCTCTGTTTGTCACTTCCAAGCAGCTGCTTCTTCTG
CTTGATGCTTCTCTGCCCAAACCATTTTTTCTGAGAAACGAAGATGGAAGCTTGAAAAGAACCATCATAGGATGG
TCTGCACAGGAAGAGTCAACCATTCTAGTTGGCAAGAGGATGAAGAGGAGGCTGAGGTGGATGGGGACTACAGT
GAGGAGGATAAAGCTGTAGAAATGCGTACGGGTGACAGTGACCCCGGGTGTACGTGACGTTTGAGGTGTTCAA
AATGAAATATGGCCCAAATGACCAAGGGAGGACTGCCTACAACCCTGCACTGATTTGGAAGAAATAAATCT
TTTCTAAAGGGTCTTTTGGAGCCCTCAGCTGTCCCATGGGAGACTCACTGAAGAAGTATATAAGAAATTAGGG
AGGAAACGGTGCCCAATTTCAAGGAAGACCGGAGTGAGATCTACAGCCTCTTCAGTCTGTATCAGCAAATCAGG
TCCAGAAAGGTTATTTTGATGAAGAGGATGTTCTGTACAACATATCCCGGAGGCTGTGGAAGCTCAGGGTGCTC
CCATGGTCCATCCACGAGCTCTATGGTGATGAGATTCAAGACTTTACCCAGGCCGAGCTGGCGCTGCTGATGAAA
TGCATCAATGACCCCAACTCTATGTTCTCACGGGGGACACGGCCAGAGCATCATGAAGGGCGTGGCCTTCCGC
TTCAGCGATCTGCGCTCTCTGTTCCATTATGCCAGCAGAAACACCATAGACAAGCAGTGTGCTGTCCGGAAGCCC
AAGAAGATCCACAGCTGTACCAGAATTACAGGTCCCACTCAGGAATCCTCAATCTGGCATCTGGAGTGGTGGAT
TTACTTCAGTTCTATTTCCAGAAATCTTTTGATCGCCTTCCAAGGGATTCTGGCCTCTTTGATGGTCTTAAGCCA
ACTGTTCTGGAGTCTTGTAGTGTAAAGCGACTTGGCAATTTTGCTACGAGGGAATAAAAGGAAAACCTCAGCCATT
GAATTTGGAGCCCACCAGGTAATCCTTGTGGCCAATGAAACGGCAAAGGAGAAAATTCAGAAGAGCTGGGGTTA
GCACCTGTGCTAACAAATTTATGAAGCAAAGGCTTAGAATTTGATGATGTCTCCTTTACAACCTTTTTTACTGAT
TCTGAGGCTTATAAGGAATGGAAGATCATTTCTCATTACACCTACCTCAACTGACTCCAGAGAGGAAAACCGG
CCATTGGTTGAAGTACCCCTGGACAAACCAGGCTCTTCTCAGGGTGCATCTCTCATGGTGAATCCAGAAATGTAC
AAGCTCCTCAACGGAGAGCTGAAGCAGCTGTACACCGCCATCACACGGGCTCGGGTCAACCTCTGGATCTTTGAT

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FIGURE 1034B

GAAAAACCGAGAGAAACGGGCTCCCGCATTCAAATATTTTCATTAGAAGAGATTTTGTCCAAGTTGTAAAGACAGAT
GAAAAATAAAGACTTTGATGATAGCATGTTCTGTTAAGACCTCAACTCCTGCGGAGTGGATTGCACAGGGAGATTAC
TACGCCAAGCACCAGTGCTGGAAGGTTGCAGCCAAGTGTTACCAGAAAAGGAGGTGCATTTGAGAAGGAGAAGTTG
GCCCTGGCCCATGACACTGCCCTGAGCATGAAATCCAAGAAAGTCAGCCCCAAGGAAAAGCAGTTGGAATATTTG
GAATTGGCTAAGACCTATTTGGAGTGCAAAGAGCCAACACTGTCCCTTAAGTGTCTGAGCTATGCCAAGGAGTTC
CAGCTCTCTGCCCAGCTGTGCGAGAGGCTGGGAAAGATAAGAGATGCTGCCTATTTCTATAAGCGAAGCCAGTG
TACAAAGACGCTTTTTCAGATGCTTTGAGCAGATTTCAGGAATTTGATCTAGCACTCAAATGTACTGCCAAGAGGAG
CTTTTGAAGAAGCTGCTATTGCAGTGGAAGATGAAGAAATGCTAAAGACTAAGACCCTTCCCATTTCCTCAAG
CTCTCCTATTCTGCCAGTCAGTTTTACTTTGGAAGCTGCAGCAAAGTATCTGAGTGCAAATAAGATGAAGGAAATG
ATGGCTGTCTCTCAAAGCTAGACATAGAAGACCAGCTGGTGTCTTGAAGTCTCGGAAACGCTTAGCAGAAGCT
GCAGACCTGCTGAACAGGGAAGGTAGGAGAGAAGAGGCTGCCCTGCTGATGAAGCAACATGGCTGCCTCCTGGAG
GCTGCCAGGCTCACTGCCGACAAGGACTTCCAGGCCTCATGTCTGCTGGGGCCGCCCGCCTCAATGTGGCCAGG
GATTCCGACATAGAACACACCAAGGACATTCTGAGAGAAGCACTTGATATCTGCTATCAAACCTGGCCAGTTGTCT
GGCATTGCGGAGGCCCACTTCTGCAAGGGGTAACTCTGAGAGACTTTCAGAAGCTCAGGGATGCCTTCTTCAAG
TTTGACACGCTCAACCACTCAGCTGGAGTGGTGAAGCACTCTACGAAGCAGCCAGCCAGTGTGAGGCCGAGCCT
GAGAAGATTCTGGGCCTGGCTCCAGGGGGCTTGGAAATCCTCCTCAGTCTGGTCAGGGCTCTCAAAGAGTGACC
ACAATGCTGAGAAGGAAATGGTCAAATCTTGCTTTGAGTTTTTTGGGATTTCAGGTGGATGCCAAGTATTGC
CAGATAGCTCAGAATGACCCTGGGCCATATTAAGAATAATTTTGACCTGGATTGAACTTGAGAGAGAAAAAA
ACAAAAGATCATTTTTTGATAATGACTGACCAAGTGAAATAGCCCTAAACAAACACCTTTTGGGCAGGCTGTGT
CAGATCACACGGAGCCTGCTTGGGAAGACCTACCGAGGAGTCTGCATGAGGTTTATTGTAGGCTTAAATGTGAG
GATGAAAACCTGTGAACATTTTTCACAGGCCTCTGCGGCGTTGTGAAGCCAAGTGTTTAGTTTCAGTCGAAAATGAAC
TTGGTGGCAATCAACGGGTTGCTTTTGGAAAGCCAAAAAGTATTCCTTAAATCTTAGCAGAAGAACTTAAAGAA
ATTGATTATATTTTGTCTACAGATATGTATGGCCTTTGCAAGTCCATTCTGGATGTCTTTTCCCTAAGCATTTC
CATCAGAGAGTGTTGTGAGAAAACCCCATGGCATGCAAAGAAATCCTCAAACCAATTACAAATCCTTCCGGTTC
TACAGATTTGCTTTGAAGGAGTACATCCACTTTCTGTTTGAAGTGAAGCGCACGCAACCGCCGGGAATCCACA
GACCTGTGGCTGAGTGCCATGCAAGCTTTCTTCTCTTCCAACCTACCCGGAGGAGTTTGAAAAGCTGCTCCAC
CAGGAGGAGGACAACCTACAACAGGGAACCTCAAAGCTCTAGAGTCTGAAAAGGATGAAAGGGGCAGGGGGAGAGGC
AGCAGGATAAAAGGAATAGAAGGGAAATTTGGCATGCTGGCACCCAACAGGGATGATGAAAATATGGACAAGACC
CACCTGTGCTTCATCCGGCTTCTGGAGAATTGCATTGATCAATTCTACGTGTACAGGAACCCAGAAGACTACAAG
AGGCTCTTTTTCCGTTTCATGAATGTCCTCATCAAGAGGTGCAAAGAACCACTCATCCCCAGCATTGGAAACACA
GTAGCCCTCCTGGAGTTCCAGTTCATCCACTGTGGGGTGGTGTGCTGGCCCGCCTCTGGAAGAATGTCATTCTATGC
CTCCCCAAGAGCTACATTGCACTCTTGCACTACTGGGAGTTCTGTTTAGCAAGAAGGACAAGGAGCTTGGGGAT
GTGTTCTCCATCATTGAGGAATACAAACCAAGGACGTGACAAGAGCCATTGAGGATTTCCGGTTCCATCTCTCC
TACCTCGCCAAGGTGCTATGTGGCTATGAGAATGTGAACCTCAACGTCCTGCTTGATGCCTTCAGTGAAATAGAC
TATGTGGTCTCGGGTGAGGCTGAGCGGACACTGGTGTCTGTGCTTGGTGATGCTAGTGAATGCTGAGGAGATCCTG
CAGCCATACTGCAAGCCTCTCCTGTATCGCCACTTCCGGGAGATTGAGTCAAGGCTGCAGCTCATGAGCATGGAC
TGCCCTGGCCAGGTTCCCGAGAGGCTCCTGAAGGTGGTGAAGCGGGTCTTGGTGGCAGTCAATGTGAAGTCTGTG
GCTGAGGCACTGCAGGACCTGCTCTTTGAGCGGGATGAAGAGTACCTAATGGACTGTGACTGGCGGTGGGACCCT
GTGCACACCAAAGGGTCCATAGTCCGTGGCCTCTATTATGAGGAGGTGAGACTAAACCGCCTGCTCTGTTTGGAC
CCTGTGGACTACTTTGCTGAACCTGAGTGTGAGTTTGGCCAGGATGAGATGGATGAACTGGCATTAGAAGACCGA
GACCACGTCCTGGCCACCATTCTTTCCCAAAAGCAACGGAAGGCCTCCATACAGCGGAAGTTGAGGAGGGCATGC
CTGGTGGTGTCTCTGTGCATCAGTTGGAGGAGAAGAGTGGGCACCCAGATGGAGCGTGTGAGGAGGAGGCCAGG
GAGCCAGGGCTGGGAACTTCAAAAAGGCAGACGTGGACAGGACCCAGTGTGACCTATGTGGAGTGAAGTTTACC
CGTGGCCAGAGAACTATTTAGCCCCAGCAAAGCGTTTGGGGGGCAGCTTCCGAGGTGGCAGTCCTTTCCAGG
GCTGAGCTGGAAAGGGAGGAGTGTGAGGAGAGGAACAGCGAGTCTTACGAGCAGCATATCCATCTAGAACCAC
CAGAGGCAGCAAGTGGCTTACCAGAAATACTCAGAATTTTTTCCACGAGAAGGTGGACCCGGCCATTGATGAAGGC
AAGCTGGTGGTGCAGGACATCGAGCAAAGTGTATGGATCCACAGTCACGTGGGCTCCAAGGAGCACAGCCACATG
CTGCAGAAGGTCCAGGAGCACATCAAGAGGGTTTCGGATATGGTGGAGGACCTCTACAGGCGGAAGGCCTGGGCT

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FIGURE 1034C

GGCGCGGAGGAGGCGATGACTCGGCTGGTCAACATTCTGATCCTGTCAGTCAGGGATGCACGAGACTGGTTGATG
AAAACAGAGACCCGCTTAAAGAAGGAAGGTATTGTTTCAGGAAGATGATTATGAAAATGAAGTTGAAGACTTTGGT
GAGCTTCGGCCTAGAAGGCGTTCTCGGAAATGTGGAAAGCAGAGAAAATACTAATGTCCACACAGCTGCAGCCTC
CTCATCCTTCGGAACATTCCATTCTGACTTAGAATTCTGAGCGCTGGGGCAGAAGACAAAAAGAATGTGAATTAG
CATTTTAAAAATAGGGGAGTCTAACAACACCATTGCTTTTTTATTCTCATTACTTCTCTTTTCAGTGGCTTAGGATC
TGATTGCTCCCTCACCTCTAAAGTGTTTCCAAGTAGAGTCTGGCAGTATTAGTTTCCCCACAAACAAATTCAGG
TAGAGAAGTTGTAGTCGAAGGGAATGTTGGGACTCCTCACTGCATGGTCCCTGGGGTGTCTGGCTCATCCCCATC
ATGACGTGAGTTGGTAGCAGAGGACTAGGTGTTAGGACAGACTCTCCTCACCTCAGTTGCTGCTGCTCTGGGCCA
GGAAATCTCTCTATGGATTCCCTCATCTCCTGCCACACTGCTGCAGCATCAAGTGTGCTATGAGAGCTGTATGTG
CCCAGGGGTGGGCCCTGCCACTGGCCACCCCGAGCCAGGACGCATTCTGGTCATCTCTGAGCCCACTTGTAGTG
TAGCTTCTTCTGTTAGAGATGTTAGCCTTTTCTCTCTGTGGCGACTTTTCTGCCTTCCCTTCTTCTGTTTTTGT
GATCATTCTTAGCTACCTGTGCCAAGTCACAGTTAGACTACCTCAGAATGTAGTCAAGAATTCACCCAGTGTTCT
TTGGATGTCCCTTCCCTAGGGGGAAAGGCTGGGGAATGTTGCTGGGAGCATTCCCAGCTGCCTCTCCAAAGTGGT
CCTAACTCTGCCTTGGCTATGGTGCAGACATTCCAAAAAGTGTTTTGTATACAGCCCTGTACATCTAGTTTTCTT
GGTTCTCCCTGGCAAGTTCGCTACCCTAGCTTAGGCTGACGTTCTGATGAGTCTCTGCTTGCTGAGCTCATCACT
GTGGGATGGTGACCTGCAGAGCTGCAGATTGGAGCAAGTGGACAGAGGAGGGAGCCAGCTAAGCCAAATCCGTCA
CTGCCACTTGGCTGGCAGGCCTTATAAGAGGGCGGATCTGGGCCCGTTTGAGGAGGCCATTGCCTACCCTCTCC
CCACAGTGAGCCAGCAGCCATCAGCTGATCCCACCTGGGAAACCTTCATGCCTCTCTGATGGTTACTGCCACCC
TTACCCCAACCCCTCAGCTCAGCCTGGTATGGAAAGCAAGGTGCACGTTGGTCTTTGATTGTTCTGTCCCTCACAGC
AGAGCCAGCTTTCCCCCATGTTGCTGCTGCTTTTGCTGCTCATGCTGCTTGTGTTTTCTCTTCCCTATCTTTC
CAAATTGTTTTCTTGAATGCTTGTTTCCAATTTTCTTAGATTATGTTTCTAATTTTTATTCCAGGTGTTTTTT
TTTCTTACTTGACAGAAAAAAGAAAACCCCAACAATATCTTGCTGTATTATCACATTTTTTATAAAGTTAAAGC
ATTTCTCTT

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FIGURE 1035

GSPKRGRAYKEWKI ISSFTPTSTDSREENRPLVEVPLDKPGSSQGRSLMVNPEMYKLLNGELKQLYTAITRARN
LWIFDENREKRAPAFKYFIRRDFVQVVKTDENKDFDDSMFVKSTSTPAEWIAQGDYYAKHQCKVAACKYQKGGAF
EKEKLALAHDTALSMKSKKVPKEKQLEYLELAKTYLECKEPTLSLKCLSYAKEFQLSAQLCERLGKIRDAAYFY
KRSQCYKDAFRCFEQIQEFDLALKMYCQEELFEEAAIAVEKYEEMLKTKTLPISKLSYSASQFYLEAAAKYLSAN
KMKEMMAVLSKLDIEDQLVFLKSRKRLAEAADLLNREGRREEAALLMKQHGCCLLEAARLTADKDFQASCLLGAAR
LNVARDSIEHTKDILREALDICYQTGQLSGIAEAHFLQGVI LRDFQKLRDAFFKFDTLNHSAGVVEALYEAASQ
CEAEPEKILGLAPGGLEIILSLVRALKRVTNNAEKEMVKSCFEFFGISQVDAKYCQIAQNPGPILRIIFDLDLN
LREKKT KDHF LIMTDQVKLALNKHLLGRLCQITRSLGKTYRGVCMRFIVGLKCEDENCEHFHRPLRRCEAKCLV
QSKMNLVAINGLLLEAKKVFPKILAEELKEIDYILSTD MYGLCKSILDVLF PKHFHQRVLS ENPMACKEILKPNY
KSFRFYRFALKEYIHFLFENESARNRRESTDLWLSAMQAFLLSSNYPEEF EKLLHQEEDNYNRELKALESEKDER
GRGRGSRIKGI EGKFGMLAPNRDDENMDKTHLCFIRLLENCIDQFYVYRNPEDYKRLFFRFMNVLIKRCKEPLIP
SIGNTVALLEFQFIHCGVVLARLWKNVILCLPKSYIAL LHWEFLFSKKDKELGDVFSIIQEYKPKDVTRAIQDF
RFHLSYLAKVLCGYENVNFNVLLDAFSEIDYVVS GEAERTLVLCVMLVNAEEILQPYCKPLLYRHFREIESRLQ
LMSMDCPGQVPERLLKVVKRVLVAVNVKSVAEALQDLLFERDEEYLMDCDWRWDPVHTKGSIVRGLYYEEVRLNR
LLCLDPVDYFAEPECEFGQDEMDLALED RDHVLATILSQKQRKASIQRKLRRACLVS LCI SWRRRVGTQM ERV
REEAREPRAGNFKKADVDR TQCDLCGVKFTRGPENYFSPSKAFEGAASEVAVLSRAELERE ECQERNSES YEQHI
HLEHHQRQQVAYQKYSEFFHEKVDPAIDEGKLVVDIEQSVWIHSHVGSKEHSHMLQKVQEHIKRVSDMVEDLYR
RKAWAGAEAMTRLVNILILSVRDARDWLMKTETRLKKEGIVQEDDYENEVEDFGELRP RRRSRKCGKQRKY

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FIGURE 1036A

GGCCGCGAGTGCATCTTCCACGAACCTAATTCATCTCTCCAGCAAAGGACACATCTCTCCAGCAAAGGACACCTC
TCTCCAGCAAAGGACACCTGCAGAGATGTCCCCAGTCTTCACTTCTATGTTTCGTCCCTCTGGCCATGAGGGGGC
AGCCTCTGGACACACTCGGAGGAACTGCAAGGGAACTGCCAGAGCTGCAGGGCGTCGAGACTGAACTGTGCTA
CAACGTGAACTGGACAGCTGAGGCCCTCCCCAGTGCTGAGGAGACAAAGAAGCTGATGTGGCTGTTTGGTTGCC
CTTACTGCTGGATGATGTTGCTCGGGAGTCTTGCTCCTTCTTGCTCCAATGACCTGCTGCTGGAGGTGGGGCC
CAGGCTGAACTTCTCCACCCCAACATCCACCAACATCGTGTGAGTGTGCCGCGCCACTGGGCTGGGGCCTGTGGA
TCGTGTGGAGACCACCGGCGCTACCGGCTCTCGTTTGCCACCCCCCGTCAGCTGAGGTGGAAGCCATTGCTCT
GGCTACCCTGCACGACCGGATGACAGAGCAGCACTTCCCCATCCCATCCAGAGTTTCTCCCCTGAGAGCATGCC
GGAACCCCTCAATGGCCCTATCAATATACTGGGTGAGGGCCGGCTTGCCTGGAGAAGGCCAACCAGGAGCTTGG
TCTGGCTTTAGACTCTTGGGACCTAGACTTCTACACCAAGCGCTTCCAGGAGCTACAGCGGAACCCGAGCACTGT
GGAGGCCCTTTGACTTGGCGCAGTCCAATAGCGAGCACAGCCGACACTGGTTCTTCAAGGGCCAGCTCCACGTGGA
TGGGCAGAAGCTGGTGCCTCACTGTTTGGTCCATCATGAGCAGCCAGGAATCCTCGAACCCCAACAACGTCTCT
CAAATCTGTGATAACAGCAGTGCAATCCAGGGAAAGGAAGTCCGATTCTACGGCCTGAGGACCCACACGGCC
AAGCCGCTTCCAGCAACAGCAAGGGCTGAGACATGTTGTCTTACAGCAGAGACTCACAACCTTCCACAGGAGT
ATGCCCCCTTTAGTGGTGCAACCACTGGCACAGGGGGCCGGATTTCGAGATGTCCAGTGCACAGGCCGCGGGGCCA
CGTGGTGGCTGGCACTGCCGGCTATTGCTTTGGAAATCTGCATATTCCAGGTTACAATCTGCCCTGGGAGGATCT
AAGCTTCCAGTATCCTGGGAATTTTGCCCGGCCCTGGAGGTTGCCATTGAAGCCAGTAATGGAGCTTCTGACTA
TGGCAACAAGTTTGGGGAACCAAGTGCTGGCTGGCTTCGCCCCGCTCCTTGGGCCTCCAGCTCCAGACGGCCAGCG
GCGTGAGTGGATCAAGCCCATCATGTTTAGTGGGGGCATTGGGTCCATGGAAGCTGACCACATAAGCAAGGAGGC
CCCAGAGCCAGGCATGGAAGTTGTAAAGGTTGGAGGTCCCGTCTACAGGATTGGAGTTGGAGGTGGAGCTGCTTC
ATCTGTGCAGGTGCAGGGAGATAACACCAGTGACCTGGACTTTGGGGCTGTGCAGCGAGGAGACCCGGAGATGGA
ACAGAAGATGAACCGTGTGATCAGGGCTTGTGTGGAGGCCCAAGGGAAACCCCATCTGCAGCCTTCATGATCA
GGGCGCTGGTGGCAATGGCAATGTCTTAAAGAGCTGAGTGACCCAGCTGGAGCCATCATTTACACCAGCCGCTT
CCAGCTTGGGGACCCAAACCCTGAATGCCCTGGAAATCTGGGGGGCTGAGTACCAGGAATCAAATGCTCTTCTGCT
GAGGTCCCCCAACCGGGACTTCTGACTCATGTGAGTGCCTGTAACGTTGCCCGGCTTGCTTCGTGGGCACCAT
CACTGGAGACCGGAGAATAGTGCTGGTGGACGATCGGGAGTGTCTGTGAGAAGAAATGGCCAGGGGGATGCCCC
CCCGACACCCCCGCCAACCCCTGTGGACCTGGAGCTCGAATGGGTGCTGGGCAAGATGCCTCGGAAGGAGTTCTT
CCTGCAGAGGAAGCCCCCATGCTGCAGCCTCTGGCCTTGCCCCAGGGCTGAGCGTGCACCAGGCTCTGGAGAG
GGTTCTGAGGCTGCCCCGCCGTGGCCAGCAAGCGCTACCTACCAATAAGGTGGACCGCTCCGTGGGAGGCCCTGGT
GGCCAGCAGCAGTGCCTGGGGCCCCCTGCAACTCCTCTGGCAGATGTAGCGTTGTGGCACTGAGCCATGAGGA
GCTCATAGGGGCTGCCACAGCCTTGGGAGAACAGCCAGTCAAGAGCCTGCTGGACCCAAAAGTCGCCGCCCGGCT
GGCCGTGGCCGAAGCCCTACCAACCTGGTGTGTTGCTCTGGTCACTGACCTCCGGGATGTGAAGTGTAGCGGGA
CTGGATGTGGGCAGCCAAGCTCCAGGGGAGGGCGCAGCTTTGGCGGATGCCTGTGAGGCTATGGTGGCAGTGAT
GGCAGCCCTGGGTGTGGCAGTGGATGGTGGCAAGGACTCCCTCAGCATGGCTGCTCGGGTTGGCACTGAGACCGT
GCGGGCTCCTGGGTCACTGGTCACTCAGCCTATGCCGTCTGCCAGACATCACAGCCACTGTGACCCAGACCT
CAAGCATCCTGAAGGGAGAGGCCATCTGCTCTATGTGGCTCTGAGCCCTGGGCAGCACCAGGCTCGGGGGCACAGC
TCTGGCCAGTGCTTCTCCAGCTTGGGGAACACCCTCCAGACCTGGACCTTCTGAGAACTTGGTGCGGGCCCTT
CAGCATCACTCAGGGGCTGCTGAAAGACCGCCTCCTCTGCTCAGGCCACGATGTGAGTGACGGAGGCCCTCGTCAC
ATGCCTGCTGGAGATGGCCTTTGCTGGAAATTGCGGGCTACAGGTGGATGTGCTGTCCCCAGGGTTGATGTCTT
GTCTGTGCTGTTTCGTGAGGAGCCAGGCCTCGTGTGGAGGTGCAGGAGCCAGACCTGGCCCAGGTGCTGAAGCG
TTACCGGGATGCTGGCCTCCATTGCCCTGGAGCTGGGCCACACAGGCGAGGCGGGCCCCACGCCATGGTCCGGGT
GTCAGTGAACGGGGCTGTGGTTCTGGAGGAGCCTGTTGGGGAGCTGCGAGCCCTCTGGGAGGAGACGAGTTTCCA
GCTGGACCGGCTACAGGCAGAGCCTCGCTGTGTGGCAGAGGAGGAACGGGGCCTGAGGGAGCGGATGGGGCCAG
CTATTGCTGCCCCCACCTTTCCCAAAGCCTCCGTGCCCCGTGAGCCTGGTGGTCCCAGCCCCGAGTCGCCAT
CTTGCGAGAGGAGGGCAGTAATGGAGACCGGGAGATGGCCGATGCCTTCCACTTAGCTGGGTTTGAGGTATGGGA
CGTGACCATGCAGGACCTCTGCTCTGGGGCAATTGGGCTGGACACTTTCCGTGGCGTGGCCTTCGTGGGCGGCTT
CAGCTATGCAGATGTCTGGGCTCTGCCAAAGGGTGGGCAGCTGCTGTGACCTTTCATCCCAGGGCTGGGGCTGA
GCTGAGGCGCTTCCGGAAGCGGCCAGACACCTTACGCTGGGCGTGTGTAATGGCTGTCACTGCTGGCTCTGCT

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FIGURE 1036B

CGGCTGGGTGGGAGGCGACCCCAATGAGGATGCTGCAGAGATGGGCCCTGACTCCCAGCCAGCCCGGCCAGGCCT
TCTGCTACGCCACAACCTGTCTGGGCGCTACGAGTCTCGCTGGGCCAGCGTGCCTGTGGGGCCTGGGCCAGCCCT
GATGCTGCGAGGGATGGAGGGCGCCGTGCTGCCCCGTGTGGAGTGCACACGGGGAAGGTTACGTAGCATTCTTCTC
TCCGGAACCTCCAAGCTCAGATTGAGGCCAGGGGCTTGGCTCCACTGCACTGGGCTGATGATGACGGGAACCCAC
AGAGCAGTACCCCTCTGAATCCCAATGGGTCCCCAGGGGGCGTGGCTGGCATCTGCTCCTGTGATGGCCGCCACCT
GGCTGTCAATGCCCTACCCCTGAGCGGGCCGTTAGGCCTTGGCAGTGGGCATGGCGACCCCTCCATTTGATACTCT
GACCACCTCCCCCTGGCTCCAGCTCTCTATCAATGCCCGAACTGGACCCCTGGAAGGGAGCTGCTGACTGGCCAC
AGGGGCTCACCTGGGCCCCATGGCTTTTACCTAAGTGGGTCTGCCCCCTCCCCATGACCTTCAGGAGCACCC
CATATTATTTCCAAAAATATCTTGGACAGACAAGGACCAAAATGCCAAAATCTCAGCGGACTCGATGATCTGCCT
GCTGATGTTCCCTCTGTGGCTGTGTCTATTTTCAGTTCTGCTCTAACATGGCATGCCCTTTCTCAGCCCAGGAAA
CAGCATGTGGTTCAGAGAAAAGAGCGACAAGGAAAAGTTAGGACTCCTGAGGTCCGAACAGGGGCTTCTGTTGCC
CACTTCACAACACCCAGTGATCACCGGTGTGCAATTGCCTCCTTGGCTCTGAGGGATGTTTTGCGCTCCCTTTTC
TCATCATTGGGGTTAGCGGGTGCAGACAAATTCAGCAATAGTATGCAGATCAGCCCCCTACCACCTCATTGTTCT
CATCTGGAAC TGAACTTTCTGGATTTCTCTTGAAGTGCTACACTGCACTGAATGTAAGGAATTGTTGCTTGTGG
AAGTTTCTCAGCGTTTCTGGCTGTCTTAGGGCTGGCCTCAGAACCAGCATTCTGTTATTTGCTTCTAAATTAG
CAGCTCTCTTTTTTTTTTTTTTTTTTTGAGGCAGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCGTGATCTCG
GCCCCACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTTTCTGCTCAGCCTCCCGAGTAGCTGGGAGTACAGGC
ACACACCACCACCCAGCTAATTTTTGTATTTTGTAGTAGAGATAGGGTTTCACCGTGTCTCCCAGGCTGGTCTC
AAACTCCTAACCTCAAGTGATTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGGGAGCCACTACAGC
TGGCCCAGCAGCTCTGTTTCTGATAGAGGTGGTTGGGGCTCTCATCCCTAGATCCTAACCCCTTTAGTATGCTGGA
ATTCTACTCTTCACTTACTGCATTGACTGTTGTTGATTAGTTATTATTGCAAAGCACTGCCACCGGCCTCAGGGA
GTTTATGTGTAATAGAATTAATAAATAATAGCTGTGTATAACACTTAGCTCAAGCCACGCATGTGTGAGGCATTTG
GTATGTATCTGAATTAATTCTCACTAAAATTCAGCAAAGGACTTGATAGCCTCTCCCCGCCTTTTCAATAAAGGA
TGAATGAAGTTG

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FIGURE 1037

AASASSTNLIHLSSKGHISPAKDTSLQQRTPAEMSPVLHFYVRPSGHEGAASGHTRRKLOGKLPELQGVETELCY
NVNWTAEALPSAEETKKLMWLFGCPLLLDDVARESWillPGSNDLLLEVGPRLNFSTPTSTNIVSVCRATGLGPVD
RVETTRYRLSFAHPPSAEVEAIALATLHDMTEQHFPHPHQSFSPESMPEPLNGPINILGEGRLALEKANQELG
LALDSWDLDFYTKRFQELQRNPSTVEAFDLAQSNSEHSRHWFFKGQLHVDGQKLVSLSFESIMSTQESSNPNNVL
ONSSAIQKQEVRLRPEDPTRPSRFQQQQLRHVVFTAETHNFPTGVCPSFGATTGTGGRI RDVQCTGRGAH
TAGYCFGNLHIPGYNLPWEDLSFQYPGNFARPLEVAIEASNGASDYGNKFGEPLVLAGFARSLGLQLPDGQR
KPIKFSGGIGSMADHISKEAPEPGMEVVKVGGPVYRIGVGGGAASSVQVQGDNTSDLDFGAVQRGDPPEME
QRMNRVIRACVEAPKGNPICSLHDQAGGNGNVLKELSDPAGAIYTSRFQLGDPTLNALEIWGAIEYQESNALLL
NRDFLTHVSARERCPACFVGTTIGDRRIVLVDDRECPVRRNGQGDAPPTPPPTPVDLELEWVLGKMPRKEFF
KPPMLQPLALPPGLSVHQALERVRLRLPAVASKRYLTNKVDRSVGGLVAQQQCVGPLQTPADVAVVALSHEE
AATALGEQPVKSLLDPKVAARLAVAEALTNLVFALVTDLRDVKCSGNWMWAAKLPGEAALADACEAMVAVM
GVAVDGGKDSLMAARVGTETVRAPGSLVISAYAVCPDITATVTPDLKHPEGRGHLLYVALSPGQHRLLGGA
QCSQLGEHPPDLDPENLVRAFSITQGLLKDRLLCSGHDVSDGGLVTCLEMAFAGNCGLQVDVPVPRVDVL
VLFEEPGLVLEVQEPDLAQVLKRYRDAGLHCLELHTGEAGPHAMVRVSVNGAVVLEEPVGELRALWEETSFQ
LRLQAEPRCVAEEERGLRERMGPSYCLPPTFPKASVPREPGGPSRVAILREEGSNGDREMADAFHLAGFEVWD
VIMQDLCSGAIGLDTFRGVAFVGGFSYADVLGSAKWAAVTFHPRAGAE LRFRKRPDTFSLGVCNGCQLLALL
GWVGGDPNEDAAEMGPDSQPARPGLLLRLHNLSGRYESRWASVRVGGPALMLRGMGAVLPVWSAHGEGYVAFSS
PELQAQIEARGLAPLHWADDDGNPTEQYPLNPNNGSPGGVAGICSCDGRHLAVMPHPERAVRPWQAWRPPFFDTL
TTSPWLQLSINARNWTLEGSC

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FIGURE 1038A

CCGCGCGCGGCGGCCGAGGCGGCGGCGGGGACGCGGGGACGCGAGGACGCGGCTTTGTGCAGGCGGGTCGCGGG
GCGCCCATGGCGGAGTGCGGCCGGGGGGGCGCCGCCGCGGGGCCCTGCCACCTCCCCGGGCGGCCCTCGGC
GCCAAGGGCGCCCTGAAAGCCGGAGTGGGGGAAGCGGTGGCGGGGAGGTGCGCTCGGCCACGGGCGGGCGCGC
TATGACAGCGGCGGGGTTTCCAACGGAGACTGCAGCCTCGGCGTGTCCGGGACGAAGCCCGGGCTAGCCCTACC
AGGGGACCCCGCGGCGTTGCGCTCGCCCCGACCCCGAGCGCGGTGCTGTACCCTCCCCGGGAGAGCAAGCCG
GGCGGCTGCCCCGCCGGAGCAGCATCATCAAGGATGGTACAAAACAGAAGAGGGAACGGAAGAACAGTCTCA
TTCAGCAGCATGCCAACAGAGAAGAAGATCAGCAGTGCAAGTGATTGTATTAAATTCAATGGTTGAGGGTTCAGAA
CTCAAAAAGGTTGCGTCCAACCTCTAGAATTTATCATAGGTACTTTTTACTGGATGCTGACATGCAGAGCCTAAGG
TGGGAGCCATCTAAGAAGGATTCTGAGAAAGCCAAGATTGACATTAAATCCATCAAGGAAGTGAGAACAGGAAAA
AACACAGACATATTCCGAGCAATGGCATTCTGACCAGATATCTGAAGATTGTGCGTTTTCCGTCAATATATGGA
GAGAATTATGAGTCACTGGATTTGGTTGCCAACTCCGCAGATGTTGCAAACATCTGGGTTACAGGACTGCGGTAC
CTAATTTCTTATGGAACATACACTTGATATGTTAGAAAGTAGCCAAGATAACATGAGGACTTCTTGGGTTTCA
CAAATGTTTAGTGAAATTGATGTAGATAACCTTGGACATATAACTCTGTGTAATGCTGTGCAATGTATCAGAAAC
CTCAATCCTGGTTTAAAAACGAGCAAAATTGAGCTTAAGTTCAAAGAATTGCATAAATCAAAGGACAAAGCTGGT
ACCGAGGTACAAAAGGAAGAATTTATTGAGGTTTTTCATGAGCTTTGTACTAGACCTGAAATTTATTTCCTTTTA
GTTTCAGTTTTCAAGCAATAAAGAATTCCTTGATACCAAGGACCTTATGATGTTTTCTTGAGGCAGAACAGGGTGTG
GCACATATAAATGAGGAAATAAGCCTTGAAATTATTCACAAATATGAACCATCCAAAGAGGGTCAGGAAAAGGGC
TGGCTCTCCATAGACGGGTTCACTAATTACCTTATGTCACCTGACTGTTATATATTTCGATCCAGAACATAAGAAG
GTCTGTGAGGATATGAAGCAACCTCTGTCTCATTACTTTATAAACTCATCTCATAATACATACTTAATAGAGGAT
CAGTTCCGAGGTCCCTCCGACATCACAGGATATATTGAGCTCTTAAAAATGGGTTGCCGGAGTGTTGAATTAGAT
GTATGGGATGGGCCGGACAATGAACCTGTAATTTACACAGGCCACACCATGACCTCTCAGATAGTTTTCCGCAGT
GTCATTGATATTATTAACAAGTATGCATTCTTTGCTTCAGAGTATCCTCTTATCTTGTGTTTAGAAAACCACTGT
TCCATTAAACAACAGAAGGTAATGGTTCAGCACATGAAGAACTTTTAGGAGACAAGCTCTATACACATCACCC
AATGTTGAGGAATCTTATCTACCATCCCCAGATGTCCTGAAAGGGAAAATACTAATTAAAGCAAAGAAGCTGTCC
TCAAATTGCTCTGGGGTAGAAGGAGATGTTACTGACGAAGATGAAGGAGCAGAAATGTCTCAGAGGATGGGAAAA
GAGAACATGGAGCAACCCAATAATGTGCCTGTGAAGCGATTTTCAGCTTTGTAAAGAACTGTCTGAACTGGTCAGC
ATCTGCAAAATCAGTTCAGTTCAAAGAATTTTCAGGTGTCGTTTCAGGTTTCAGAACTGTTGTTCTTTT
AATGAAGTGCTTGCCAGCAAGTACGCCAATGAAAATCCAGGGGACTTTGTAAATTACAACAAACGTTTTCTTGCT
AGGGTTTTTCCAGTCCAATGAGAATTGATTCCAGTAACATGAATCCTCAAGATTTTGGAAATGTGGTTGCCAA
ATTGTAGCCATGAACTTTCAGACACCAGGACTGATGATGGACCTGAATATTGGCTGGTTTAGGCAGAACGGAAC
TGTGGCTATGTCTCCGCCAGCCATCATGAGGGAGGAGGTCTCCTTCTTCAGCGCCAATACAAAAGACTCTGTC
CCAGGGGTCTCACCTCAACTTCTTCACATTAATAATCATCAGTGGGCAGAACTTTCCCAAGCCCAAAGGATCAGGT
GCCAAAGGTGATGTGGTAGATCCTTATGTCTATGTTGAAATCCATGGAATCCCTGCTGATTGTGCAGAACAAAGG
ACAAAAACAGTGCACCAGAATGGAGACGCTCCCATTTTTGATGAAAGCTTTGAATTTCAAATCAACCTGCCTGAA
CTGGCCATGGTGCCTTTGTAGTGTGGATGATGACTACATTGGGGATGAATTCATCGGCCAGTACACAATTCCC
TTTGAATGTTTACAGACGGGCTACCGCCATGTCCCCCTGCAGTCCTTAAGTGGAGAGGTCTTGCACATGCTTCT
TTATTTGTCCACGTGGCTATTACTAACCAGAGGAGGAGGAAAGCCTCATAAAAGGGGCTTTCTGTGAGAAAA
GGGAAGAAATCCAGGGAATATGCATCTTTGAGAACACTGTGGATTAAAACCGTGGATGAGGTATTCAAGAATGCC
CAGCCCCCTATACGGGATGCCACAGATCTGAGAGAAAACATGCAGAATGCGGTGGTGTGATTCAAGGAGCTGTGT
GGCCTCTCCCTGTGGCCAATCTCATGCAGTGCATGTTGGCGGTGTCTCCCCGCTTTCTGGGGCCCGATAACACA
CCCCCTAGTGGTCTTAATCTCAGCGAGCAGTACCCCAATGGAGCTGCAGGGAATTGTGCCGGAGGTTCTGAAG
AAGATCGTAACAACCTTATGACATGATGATTGAGTCCCTCAAGGCGTTGATTGAAAATGCAGATGCTGTATATGAA
AAGATCGTACATTGTGAGAAGGCAGCCATGGAATTCATGAACACTTGACACAGCATAGGCACCAAGGAAGGTTTG
AAGGAAAAGAAACTACAAAAGCAGTGGAGAGCTTTACCTGGAATATTACCATCTTAAAGGGACAAGCAGATCTT
TTGAAATATGCTAAGAATGAGACATTGGAGAACCTGAAACAAATCCATTTTGCTGCTGTTTCATGTGGACTGAAT
AAACCAGGCACCGAAAATGCTGATGTCCAGAAGCCACGCCGAGCTTGGAAGTCATACCCGAAAAGCAAACGAT
GAAACTGGAGAATGAGGAACTTACAATAAACCATTATGGAGTTTATAACTCTAGGACCAATTGTAGTCAGATGG
GACATTTGCTTTGCACTCACTAATGAGAATAATATTGAGGATTTTAAAGCACAACTGGAATAGCTAATTACAGTC

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FIGURE 1038B

TATTAAAAC TGTGAATGTATGTAGCAATCCTGCGTGTGAAGGCAAATAAACTCTTTAACAGGCAATTATATTGCT
GGCCAAAATATGCTATATTTGTATACAAAGACATTCTAACTCAGTTCCAGTATGAAGAAAGATTATTCAGTCTAG
CTCCACTGAGAAACATTTTCCTAAGTGAAAACAATTTCTTAAGATGGAAATGGATTGGATTGTCAAATTATTATT
TATTGGAGAAAAAACCTGATCTACACATTTTACTTATATGGGGTTGCCAGAGTCTCTGGGTTCTAGATGATT
TGGTGGCATGCTTGCTGAGCCATAATTACTAAAGAGAATGTAAGTGGACGGGTTCCCTGAATCCCCGGGGTCCTT
GGAGAGCCATCGAGGAGAATGTGCAATTGGACTGAAGCTCCCTGGCTGAAGATACATGCCGAGTCAGCACATGGG
TAGAGATGATGTAAAAGCAGCCAATCTGGAAACAATACATTGTAAATAGTTTTTCATTTGTATGAAGTAGTGTTC
CATTAAAAGATGTTTTATGAT

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FIGURE 1039

PRAAARGGGDAGTRGRGFVQAGRGAPMAECGRGGAAGGALPTSPGPALGAKGALKAGVGE GGGGGGRLGHGRAR
YDSGGVSNDCSLGVSGDEARASPTRGPRGVALAPTPSAVVCTLPRESKPGGLPRRSSIIKDGTKQKRERKKTVS
FSSMPTEKKISSASDCINSMVEGSELKKVRSNSRIYHRYFLLDADMQSLRWEPSKKDSEKAKIDIKSIKEVRTGK
NTDIFRSNGISDQISEDCAFSVIYGENYESLDLVANSADVANIWVTGLRYLISYGKHTLDMLESSQDNMRTSWVS
QMFSEIDVDNLGHITLCNAVQCI RNLNPLGLKTSKIELKFELHKS KDKAGTEVTKEEFIEVFHELCTRPEIYFLL
VQFSSNKEFLDTKDLMMFLEAEQGV AHINEEISLEI IHKYEPSKEGQEKWLSIDGFTNYLMSPDCYIFDPEHKK
VCQDMKQPLSHYFINSSHNTYLI EDQFRGPSDITGYIRALKMGCRSVELDVWDGPDNEPVIYTGHTMTSQIVFRS
VIDIINKYAFFASEYPLILCLENHCSIQQQKVMVQHMKLLGDKLYTTSPNVEESYLPSPDVLKGKILIKAKKLS
SNCSGVEGDVTDDEGAEMSQRMGKENMEQPNNV PVKRFQLCKELSELVSICKSVQFKEFQVSFQVQKYWEVCSF
NEVLASKYANENPGDFVNYNKRFLARVFPSPMRIDSSNMNPQDFWKCGCQIVAMNFQTPGLMMDLNIGWFRQNGN
CGYVLRPAIMREEVSFFSANTKDSVPGVSPQLLHIKIISGQNF PKPKGSGAKGDVVDPYVYVEIHGIPADCAEQR
TKTVHQNGDAPIFDESFEFQINLP ELAMVR FVVLDDDYIGDEF IGQYTIPFECLQTGYRHVPLOSLTGEVLAHAS
LFVHVAITNRRGGGKPHKRGLSVRKGKKSREYASRLTLWIKTVDEVFKNAQPPIRDATDLRENMQNAVVSFKELC
GLSSVANLMQCM LAVSPRFLGPDNTPLVVLNLSEQPTMELQGIVPEVLKKIVTTYDMMIQSLKAL IENADAVYE
KIVHCQKAAMEFHEHLHSIGTKEGLKERKLQKAVESFTWNITILKGQADLLKYAKNETLENLKQIHFAAVSCGLN
KPGTENADVQKPRRSLEVIPEKANDETGE

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FIGURE 1040

CTGCCCTTTCTTTTTTTCAGGCGGCCGGGAAGATGGCGGACATTTCAGACTGAGCGTGCCTACCAAAAGCAGCCG
ACCATCTTTCAAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAAC
ATCGGTCTGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCCCTTCACTGGT
AATGTGTCCATTTCGAGGGCGGATCCTCTCTGGCGTGGTGACCAAGATGAAGATGCAGAGGACCATTTGTCATCCGC
CGAGACTATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCC
CCCTGCTTCAGGGACGTCCAGATCGGTGACATCGTCACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGCGC
TTCAACGTGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCCAGAAGTTCTGAGGCTGGACATCGGCC
CGCTCCCCACAATGAAATAAAGTTATTTTCTCATTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1041

MADIQTERAYQKQPTIFQNKRVLLGETGKEKLPRYYKNIGLGFKTPKEAIEGTYIDKKCPFTGNVSIRGRILSG
VVTMMQMORTIVIRRDYLHYIRKYNRFEKRHKNMSVHLSPCFRDVQIGDIVTVGECRPLSKTVRFNVLKVTKAAG
TKKQFQKF

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FIGURE 1042A

GCCACCGCAGGGCTGCTCCAAGTGAGAATCGTGAGGGTGGCCAAGTCCAGTTTGGACCTCTGACCCTTGGGCAGC
ACCTCCCCGACAGCCGGCTCGGGACCCAACTCTGCGAGCCAGGTGAAAATGAGTTCTTCAGTAAGAAGAAAAGGCA
AGCCAGGCAAAGGAGGTGGAAAAGGGTCTTCTAGAGGAGGAAGAGGAGGCAGGAGTCACGCCAGTAAATCTCATG
GGAGTGGTGGCGGTGGCGGTGGTGGTGGTGGAGGTGGCGGCAACAGAAAGGCCTCCAGTAGAATATGGGATG
GAGAGATGACTTTTGTATCTTCAGTGAATCAAGGCGCCCTTCCAGACCTAGCAACAGTAACATAAGCAAAGGAG
ACAGCCCAAATGGAAACCCAAAGCCAAAGTACCCCTTCCAGACTCTACATATGACTTCTGAGAATCAAGAGA
ATGAAAGCTCTTCTCCGAGACCTGCAAGAACAAGATGCTGATGCTGGATCTGAAAGAGGCCTTTCTGGGGAGG
AGGAAGATGATGAGCCTGATTGCTGTAACGATGAGCGGTACTGGCCAGCTGGACAGGAACCTTCCCTCGTTCCCG
TTGGATCCTTTGGAATATGCTGGCTTAGCCTCAGTGGAGCCTTATGTTCCAGAATTTACAGTCTCCCCATTG
TGCAAAACCTTTCCAGGTATGGTTCAATACTGAACGCTGTCAAGCGGTCTGAGGATGTGTGATGGAGATG
GAGCATCACTAGAGCATCTCCTTACCCAGTGTTTTTTCAGAGACATTTGGAGAGAGGATGAAGATCTCTGAGG
CAACACAGATAAGCTTGGATGAGTGTATGGAACAGCGACAGGAAGAGGCATTTGCTCTCAAGTCCATCTGTG
AGAAAATTTATAGAAAGAATTCAGAACAGAGTCTGGACCATTGGGTTAGAACTGGAGTATCTGACAAGTAGAT
TCGCAAATCCAAGCCAAAAGAAAGTACCAAAATGTACAAGAGAATTCACCTGAAATCTGTAAATTTACCTCA
AAGGAAATTGTAAATTTGGATCAAAATGCAGATTCAAACATGAAGTGCCCCCAAATCAAATTTGTGGAAGAATAG
AAAGAAGTGTAGATGATTCTCATCTTAATGCTATTGAAGATGCATCTTTTTTATATGAACTGAAATTCGATTT
TCTAAAGACCACAAATATCCCTACCAAGCTCCGCTCGTGGCATTTTATTCCACCAATGAGAACCTACCTCTGGCT
TGTCGTTTACATATTTCTGAGTTTCTTTATGACAAGGCCTTGACATTTGCGGAACTTCGGAACCTGTCGTATAT
TCTTTGATAACCTTTTAGAGGAAGAGTCGGAAATAGTCAAGTTACTAACGAATACCCACCACAAGTATAGTGAC
CCTCTGTGAACCTTTCTGCCAGTACCTCTAGGACCAGAAATAATCCTGCCTGTCATAAAACAGTGATTCCA
AATAATTTCTTTGTTTCTAATCAAATTCAGAAGTTGAAAAAGCATCAGAATCTGAGGAGTCAGATGAGGATGAC
GGTCTGCACCTGTTATAGTAGAGAATGAAAGCTATGTGAACCTTAAGAAAAAGATTTCCAAAAGATATGACTGG
CAGGCAAAGTCAGTACATGCTGAAAATGGTAAAATCTGCAAGCAGTTCCGAATGAAACAGGCTTCCAGACAGTTC
CAGTCCATTCTGCAAGAGAGGGCAATCACTCCCTGCTTGGGAAGAAAGAGAAACCATTCTTAACCTTATTGCGTAAG
CACCAGGTGGTTGTCATAAGTGGTATGACTGGATGTGGGAAAACACACAAATTCGCGAGTTTATTCTGGATGAT
TCTCTGAGTGGACCACCTGAGAAGGTAGCCAACATCATCTGTACCCAAACCCCGACGAATCTCTGCAATCTCTGTT
GCTGAACGCGTTGCTAAAGAAAGAGCAGAGAGGGTGGGTCTGACCGTGGGATACAGATTGGTTAGAAAGTGTG
AAGTCCCTCAGCCACCAGACTGTTATACTGCACCACGGGAGTGCTGCTGAGAAGGCTAGAAGGAGATACAGCTCTA
CAAGGAGTTTCCCATATCATTGTTGATGAAGTTCATGAGAGGACAGAAGAAAGTGACTTCTTGCTGCTAGTTTTG
AAGGACATTGTATCGCAGAGGCCAGGTCTTCAAGTTATTTAATGAGTGCAACTCTAAACGCTGAGCTTTTTTCA
GACTATTTAATTCCTGCCCCGTTATTACTATACCAGGTGCTACATTTCTGTTGATCAATTTTTTTTGGAAAGAT
GCAATTGCTGTGACAAGGTATGTATTACAGGATGGGAGCCCATATATGCGGTCCATGAAACAGATTTCAAAGGAA
AAGCTTAAAGCAAGGCGGAACAGAAGTGCATTTGAAGAAGTGAAGAAGACCTAAGGCTCTCCCTTACCTCCAG
GATCAGGATTCTGTCAAAGATGCAGTGCCAGATCAACAGTTAGATTTTAAGCAGCTCCTGGCCCGCTATAAAGGG
GTTAGCAAGTCAGTCATCAAAACAATGTCCATCATGGATTTTGAAGAGGTGAATCTTGAATTAATAGAGGCCTTA
TTAGAGTGGATTGTGGATGGAAAGCACTCCTACCCCTCCAGGTGCTATACTTGTATTTTTACCAGGACTAGCAGAA
ATCAAAATGCTTTATGAACAGCTACAGTCTAATTCTCTTTTCAACAACAGACGTAGTAATCGATGTGTTATTCAC
CCACTTCATTCTCTTTATCCAGTGAAGAGCAGCAGGCTGTGTTGTAAAACCTCCTGCAGGAGTAACCTAAGATT
ATAATTTCCACCAACATTGCTGAGACATCCATAACCATCGATGATGTTGTCTATGTTATCGATTCTGGGAAAATG
AAAGAAAAGAGATATGATGCCAGCAAAGGGATGGAAAGTCTAGAGGACACCTTTGTATCTCAAGCTAATGCTCTA
CAAAGGAAAGGCCGAGCAGGCCGTGTTGCATCTGGGGTCTGCTTCCATTTATTCACTAGCCATCACTACAATCAC
CAGCTTTTAAACAACAGCTACCAGAAATACAAAGAGTGCCATTGGAACAGCTGTGTCTAAGAATTTAAATTTTA
GAGATGTTTAGTGCTCATAATCTCCAGTCTGTGTTCTCTCGGCTCATTGAACCTCCACACACCGATTCTCTTCGT
GCCTCAAAAATACGATTACGAGACTTAGGAGCATTAACCTCCAGATGAAAGATTGACCCCTCTTGGGTATCATTG
GCCTCTCTGCCCCGTGGATGTGAGAATTGGCAAACTAATGTTGTTTGGGTCTATCTTCCGCTGTTTGGATCCTGCT
CTCACCATTGCTGCCAGTTTGGCTTTTAAAGTCTCCGTTTGTATCTCCCTGGGATAAAAAAGAAGAAGCTAACCAG
AAAAAGCTGGAATTTGCATTGCAACAGTGATTATCTGGCCCTTCTACAAGCGTATAAGGGATGGCAGCTAAGT
ACAAAAGAAGGCGTGCGTGCAAGTTATAATTACTGCAGACAAAACCTTCTTGTCTGGAAGAGTTCTGCAGGAAATG

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FIGURE 1042B

GCCAGCCTCAAACGACAATTCACGGAAGTGTATCGGATATAGGGTTTGCAAGGGAAGGGCTCAGAGCAAGGGAA
ATTGAGAAAAGGGCCCAAGGAGGAGATGGTGTCTTAGATGCCACAGGAGAAGAGGCCAACTCAAATGCTGAGAAC
CCCAAGCTGATATCAGCAATGCTGTGTGCTGCTTTGTATCCAAATGTAGTGCAGGTGAAAAGCCCAGAAGGAAAA
TTTCAGAAGACCAGTACTGGAGCTGTCAGAATGCAACCAAAATCAGCTGAGTTGAAGTTTGTACCAAGAACGAT
GGATATGTACACATTACCCCTTCATCAGTGAAGTATCAGGTGAGACACTTTGACAGCCCCCTACCTGTTGTACCAC
GAGAAGATAAAAACTAGTCGAGTATTCATCCGAGACTGCAGCATGGTGTCTGTGTACCCGCTGGTCTTGTGGTA
GGAGGCCAAGTGAATGTGCAGCTTCAAAGAGGAGAGTTCGTTGTCTCCCTGGATGATGGTTGGATCCGTTTTGTA
GCTGCTTCCCATCAGGTGGCTGAACTGGTAAAGGAGCTTCGTTGTGAACCTTGATCAGCTTCTCCAGGATAAAATT
AAAAACCCAAGCATTGATCTGTGTACGTGTCTCGAGGATCCCGGATCATCAGCACAATTGTGAACTTGTCAAC
ACACAATTAAAAAGCAGTCTTAGAGAGTGCTTGCTACTCACCTGCTTCTAGCTCACCTGGGAAATAACAGCAGAAC
CTCTACCTCGAACTAAAGACCTATTGGGGCTGGCCCTGGTGGAGGAGCCCAGGGCATGAAGCCCAAGGCAGCTGA
GGCAGTGTATATACCCTTAGGGCCATTTCTAACAAAGCCTTGGCCACTCCCAGCACAATTTGGAGTGTCAAGGGT
GAGAGCCTAAAACCCAGCTTGCTGTCTTTGTCTCTGTGATTGTTCTGGAGTGAATTAAGTTCACCTGATAACTC
AAAAGTGAATGTATAATACAATCTGTTTTAATCTGTGTATTCTTTTTCTCCTACTTTTACTGGGGTGAGAGGG
GCATGAAGAGAAATACGCCTTTTTTTTTTCTTTTCCTGTGCGCAAGGCTCGACTGAGAGAAGTCAGAACAGAGA
AGGGGAAAAAAACCCAAAATTATGTGAACAAGCAAAATTTAAATTTTCAATTTTAGGCTATTGGCTACTGAGTAAA
CTTGACTTGTGAGGGGTTTTTATTTTTTACTCATTAAAGTCAACTTAAACCAAAAAAATCTATGTCGGGTGCGGA
GAAAGAGGTAATGAAATGGCAGGAATTCGATATCAGCTTATC

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FIGURE 1043

HRRAAPSENREGGQVQFGPLTLGQHLP TAGSGPNSASQVKMSSSVRRKGKPGKGGGKGSSRGGRGGRSHASKSHG
SGGGGGGGGGGGGNRKASSRIWDDGDDFCIFSESRRPSRPSNSNISKGESRPKWPKAKVPLQTLHMTSENQEK
VKALLRDLQEQDADAGSERGLSGEEEDDEPDCCNDERYWPAGQEPSLVPDLDPLEYAGLASVEPYVPEFTVSPFA
VQKLSRYGFNTERCQAVLRMCDGDVGASLEHLLTQCFSETFGERMKISEAVNQISLDECMEQRQEEAFALKSICG
EKFIERIQNRVWTIGLELEYLTSRFRKSKPKESTKNVQENSLEICKFYLKGNCKFGSKCRFKHEVPPNQIVGRIE
RSVDMILILMLLKMHLFLYELEIRFSKDHKYPYQAPLVAFYSTNENLPLACRLHISEFLYDKALTFAETSEPVVY
SLITLLEEESEIVKLLTNTHHKYSDPPVNFLPVP SRTRINN PACHKTVIPNNSFVSNQIPEVEKASESESEDEDD
GPAPVIVENESYVNLKKKISKRYDWQAKSVHAENGKICKQFRMKQASRQFQSILQERQSLPAWEERETILNLLRK
HQVVVISGMTGCGKTTQIPQFILDSDLSPPEKVANI ICTQPRRIS AISVAERVAKERAERVGLTVGYQIRLESV
KSSATRLLYCTTGVLRRLEGDTALQGVSHIIVDEVHERTEESDFLLLVLKDIVSQRPGQLQVILMSATLNAELFS
DYFNSCPVITIPGRTFPVDQFFLEDAIAVTRYVLQDGSPYMRSMKQISKEKLKARRNRTAFEEVEEDLRLSLHLQ
DQDSVKDAVPDQQLDFKQLLARYKGVSKSVIKTMSIMDFEKNLELIEALLEWIVDGKHSYPPGAILVFLPGLAE
IKMLYEQLQSNLSFNRRSNRCVIHPLHSSLSSEEQQAVFVKPPAGVTKIIISTNIAETSITIDDVVYVIDSGKM
KEKRYDASKGMESLEDTFVSQANALQRKGRAGRVASGVCFLFTSHHYNHQLLKQQLPEIQRVPLEQLCLRIL
EMFSAHNLSVFSRLIEPPHTDSL RASKIRLRDLGALT PDERLTPLGYHLASLPVDVRIGKLMFLGSI FRCLDPA
LTIAASLAFKSPFVSPWDKKEEANQKKLEFAFANS DYLALLQAYKGWQLSTKEGVRASYNCRQNF LSGRVLQEM
ASLKRQFTELLSDIGFAREGLRAREIEKRAQGGDGVLDATGEEANSNAENPKLISAMLCAALYPNVVQVKSPEGK
FQKTSTGAVRMQPKSAELKFVTKNDGYVHIHPSSVNYQVRHFDSPYLLYHEKIKTSRVFIRDCSMVSVYPLVLF
GGQVNVQLQRGEFVVSLLDDGWIRFVAASHQVAELVKELRCELDQLLQDKIKNPSIDLCTCPRGSRIISTIVKLVT
TQ

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FIGURE 1044A

CGGTGACCCTCGCCTGATCCAGTTGTTAGAGTTGGAAGCTTGGCAGTTGGCCTCCCTTCTTCCCATGGAGGACGG
GGGCTTAACAGCCTTTGAAGAGGACCAGAGATGCCTTTCCAGAGCCTCCCTTGCCAGTGTGAGCAGAGGGCCC
AGCTGCACAGACCACTGCTGAGCCCAGCAGGTCGTTTTCTCAGCCCCACAGACACCTGAGCAGAAGGAATGGGCT
TTCCAGACTCTGCCAGAGCAGGACAGCGCTCTCTGAAGACAGATGGAGCTCCTATTGTCTATCATCACTGGCTGC
CCAGAATATTTGTACAAGTAACTGCACTGCCCTGCTGCCCCCTGAGCACACGACCCGTCGGAACCGCGGGGCGAG
TGTGTCCTGCTGCTCCCTGCTGCGGGGACTGTCTCAGGGTGGTCTCACCTCTGCTTCCGGCCCCCTGTGTGCAA
CCCTAACAAGGCCATCTTCACGGTGGATGCCAAGACCACAGAGATCCTCGTTGCTAACGACAAAGCTTGCGGGCT
CCTGGGGTACAGCAGCCAGGACCTGATTGGCCAGAAGCTCACGCAGTTCTTTCTGAGGTGAGATTCTGATGTGGT
GGAGGCCCTCAGCGAGGAGCACATGGAGGCCGACGGCCACGCTGCGGTGGTGTGTTGGCAGGGTGGTGGACATCAT
CACCCGTAGTGGGGAGAAGATTCCAGTGTCTGTGTGGATGAAGAGGATGCGGCAGGAGCGCCGCTATGCTGCGT
GGTGGTCTTGAGCCCCGTGGAGAGGGTCTCGACCTGGGTGCTTTCCAGAGCGATGGCACCCGTACGTCATGTGA
CAGTCTCTTTGCTCATCTTCACGGGTACGTGTCTGGGGAGGACGTGGCTGGGCAGCATATCACAGACCTGATCCC
TTCTGTGCAGCTCCCTCCTTCTGGCCAGCACATCCCAAAGAATCTCAAGATTAGAGGTCTGTTGGAAGAGCCAG
GGACGGTACCACCTTCCCTCTGAGCTTAAAGCTGAAATCCCAACCAGCAGCGAGGAGGCGACCAACCGGTGAGGC
GGCCCCCTGTGAGCGGCTACCGGGCATCTGTCTGGGTGTTCTGCACCATCAGTGGCCTCATCACCTCCTGCCGGA
TGGGACCATCCACGGCATCAACCACAGCTTCGCGCTGACACTGTTTGGTTACGGAAGACGGAGCTCCTGGGCAA
GAATATCACTTTTCTGATTCTGTTTCTACAGCTACATGGACCTTGCGTACAACAGCTCATTACAGCTCCCAGA
CCTGGCCAGCTGCCTGGACGTGCGCAATGAGAGTGGGTGTGGGGAGAGAACCTTGGACCCGTGGCAGGGCCAGGA
CCCAGCTGAGGGGGGCGCAGGATCCAAGGATTAATGTCGTGCTTGTGGTGGCCACGTTGTGCCCCGAGATGAGAT
CCGGAAGCTGATGGAAAGCCAAGACATCTTCACCGGGACTCAGACTGAGCTGATTGCTGGAGGCCAGCTCCTTTC
CTGCCCTCTACCTCAGCCTGCTCCAGGGGTGGACAATGTCCCAGAAGGAAGCCTGCCAGTGCACGGTGAACAGGC
GCTGCCCAAGGACCAGCAAAATCACTGCCTTGGGGAGAGAGGAACCTGTGGCAATAGAGAGCCCCGGACAGGATCT
TCTGGGAGAAAGCAGGTCTGAACCAGTGGATGTGAAGCCATTGCTTCTGCGAAGATTCTGAAGCTCCAGTCCC
AGCTGAGGATGGGGGCGAGTGTGCTGGCATGTGTGGCCTGTGTGAGAAGGCCAGCTAGAGCGGATGGGAGTCAG
TGGTCCCAGCGGTTTACAGACCTTGGGCTGGGGCTGCCGTGGCCAAGCCCCAGGCCAAGGGTCAGCTGGCGGGGGG
CAGCCTCCTGATGCACTGCCCTTGCTATGGGAGTGAATGGGGCTTGTGGTGGCGAAGGCAGGACTTGGCCCCCAG
CCCCTCTGGGATGGCAGGCCTCTCGTTTGGGACACCTACTCTAGATGAGCCGTGGCTGGGAGTGGAAAACGACCG
AGAAGAGCTGCAGACCTGCTTGATTAAGGAGCAGCTGTCCAGTTGAGCCTTGCGGGAGCCCTGGATGTCCCCCA
CGCCGAACCTCGTTCCGACAGAGTGCCAGGCTGTACCGCTCCTATGTCTCCTGCGATCTGGGAGGCAGAGACCT
GTGCGGTGGCTGCACGGGCAGCTCCTCAGCCTGCTATGCCTTGGCCACGGACCTCCCTGGGGGCTTGGAAAGCAGT
GGAGGCCCAGGAGGTTGATGTGAATTCGTTTTCTGGAACCTCAAGGAACCTCTTTTTCAGTGACCAGACAGACCA
AACGTCATCAAATTGTTCTGTGCTACGTCTGAACTCAGAGAGACACCCTCTTCTTGGCAGTGGGCTCCGATCC
AGATGTAGGCAGTCTCCAGGAACAGGGGTGCTGTGCTCTGGATGACAGGGAGCTGTTACTACTGACCGGCACCTG
TGTGACCTTGGCCAAGGCCGACGGTTCCGGGAGAGCTGTGTGGGACATGATCCAACAGAACCCTTGAGGTTTG
TTTGGTGTCTCTGAGCATTATGCAGCAAGCGACAGAGAAAGCCAGGACACGTTTCTTCCATGTTGGATGCTGG
CCCTGAGGACACGTGCCCATCAGCAGAGGAGCCAAGGCTGAACGTCCAGGTACCTCCACGCCCCGTGATCGTGAT
GCGCGGGGCTGCTGGCCTGCAGCGGGAGATCCAGGAGGGTGCCTACTCCGGGAGCTGCTACCATCGAGACGGCTT
ACGGCTGAGTATACAGTTTGGAGTGAGGCGGGTGGAGCTCCAGGGCCCCACACCTCTGTTCTGCTGCTGGCTGGT
GAAAGACCTCCTCCACAGCCAACGCGACTCAGCCGCCAGGACCCGCTGTTTCTTGCCAGCCTGCCCGGCTCCAC
CCACTCTACCGCTGCTGAGCTACCGGACCCAGCCTGGTGGAAAGTGTCTCAGAGCCAGACCCTGGTTTTGAGGAGCC
CCCCAAGGCTGTGGAACCTGGAGGGGTTGGCGGCCTGTGAGGGCGAGTACTCCCAAAGTACAGTACCATGAGCCC
GCTGGGCAGTGGGGCCTTCGGCTTCGTGTGGAAGTGTGTGGACAAGGAAAAAACAAGGAGGTGGTGGTGAAGTT
TATTAAGAAGGAGAAGGTCTTGGAGGATTGTTGGATTGAGGATCCCAAACCTTGGGAAAGTTACTTTAGAGATCGC
AATTCTATCCAGGTGGAGCACGCCAATATCATCAAGGTATTGGATATATTTGAAAACCAAGGGTTCTTCCAGCT
TGTGATGGAGAAGCACGGCTCCGGCCTAGACCTCTTCGCTTTTCATCGACCGCCACCCAGGCTGGATGAGCCCCT
GGCGAGCTACATCTTCCGACAAGTGAGAGCAGGCCAGAGCCGTCTAGTGTGACAGTGGGATACCTGCGCTTGAA
GGACATCATCCACCGTGACATCAAGGATGAGAACATCGTGATCGCTGAGGACTTACAATCAAGCTGATAGACTT
TGGCTCGGCCCTACTTGGAAAGGGGAAAATTATTTTATACTTTTGTGGGACCATCGAGTACTGTGCACCGGA

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FIGURE 1044B

AGTTCTCATGGGGAATCCCTACAGAGGGCCGGAGCTGGAGATGTGGTCTCTGGGAGTCACTCTGTACACGCTGGT
CTTTGAGGAGAACCCCTTCTGTGAGCTGGAGGAGACCGTGGAGGCTGCCATACACCCGCCATACCTGGTGTCCAA
AGAACTCATGAGCCTTGTGTCTGGGCTGCTGCAGCCAGTCCCTGAGAGACGCACCACCTTGGAGAAGCTGGTGAC
AGACCCGTGGGTAACACAGCCTGTGAATCTTGCTGACTATACATGGGAAGAGGTGTGTCGAGTAAACAAGCCAGA
AAGTGGAGTTCTGTCCGCTGCGAGCCTGGAGATGGGGAACAGGAGCCTGAGTGATGTGGCCAGGCTCAGGAGCT
TTGTGGGGGGCCCGTTCCAGGCGAGGCTCCTAATGGCCAAGGCTGTTTGCAI CCCGGGGATCCCCGTCTGCTGAC
CAGCTAAACACCAATTTTTCTCTGCTTTTCTCCACTTGGTTTGGAATTCACACAGTTTTCAGGCTCCATCTGTT
TGGAGAAAATACATTCTGAAGCATCCCCAATTCACCTTCTAAAACTCATGTGCAGGTTTGATAAACACCAGAAC
AGAAGACAGTGATGCTGTATTATTTAGATTTATTACATAGATTTGGAATTCACTTTTTTCATGACCTAGAAAAA
AACATTCCAGTGTTCAACTGTTTTATATTATTAAAGGGCTTTTAATTTGTG

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FIGURE 1045

TTCATATTAAAAAATAGCTGGTAAATCTTTCTAGGTAGTAACTTATCCAAACAATACTTTGAGTATCATATTTT
GTGAATGACTTGCTTAAACTGGGAAACTGAATATTCTTTTTAAATCATATAATTCCTGTATTAAATGTGAAACAC
ACAGTCTCCAAAGTCACCTGATTCTCTGTGGAAAATGAAAGGCATTGAAGGAAACCAGATACATTAATACTTAGT
TTTGTTTGAAAGTGCAACATTACTGTACTTAGAAGGGGCTTGTTTTATTTTTAGATATTTAAGCTATCATTAATT
TTAGACCAATGGCTAATAATAAGAGAGATTTTTGGTTGCTCATTATGGAGAGACAAAGAACAGCATGGCATAAA
CAAACATCCCAGAAATAAATGAAAAGTTTTAAGTGATAAAATTGTGTTTTCTATGAACAGTGTTGTACATGAAC
CAACATTGTGTTTTCTTAGCTCTGACCTGTACAGTGAGGTACCTGTGAGGACCCCTAGTCTTGCGACTGGAAATGA
CAAAGTTCTCCTATTACTAAATTCTCATGCCTTCCTTTCTGACTTAGTAGATTGAAATTGGTAGGTACTAATGA
TTTATGTTTGATAAACTTAAGTTCTGCTGATATCCTGTTACTGGTAATTCTGGTACCAAAATTTCAAACGGTTTG
ATTATTAGTAGCATTTTGAGTACCTAGGTGCATATAATACAGTTAGCAGACCCCTACAGAGTCAAAAGAGATTTT
GGAATCTGGTGATACTGTTGTTTATTACACTAGCCTATTACATTTTCTTTCTTTATAATAACTGTTTATGTGAGT
TTCATTGAAAATCGTGGCTCTATTGCTTTATTTCATGGTTTCCACAACCTCTTTTGTAAACACCTTAATTTCTCTC
TTAGGTATTTTCTGTTAAATAAGATATCAAAAGCATCAATCACAAGACAGAGAAAACGTATTAGGAAAACTTG
TATTAGTATATTCTAAACTGAAATGGAAAACTCATTATTTCATATTTTAATAAATAAACTCCCAATGATCTTG
CTAAATTATCCCACTATTTAGAAAGTAGAAAATAAGAGAAGAGTGCTTTCAAGGAAATTTGTCATATCTCCCTTC
TATCTAGAAGTTGACAATGAATTGCAATAAACTAAGAAATAACTGAATGCTGAAAAATACCATGAATTAATGTT
ATGGCTTCTTTATTTTTGTATATCCATTCCCACAAAATTGAATTTAAGATTATTAATGAAAATTCATATTAAGT
AATAATGCTTGTATTAGTAATGGGCAAAGAAGTCTTTCTTTGTTACATTAACCGTTAGTAAAAGATGTACTTTGA
CATTTCTGATGTAAAACCTATATGTAAATATTGTAATTTAAATATGATTGGACAGCTGTTAAGTTTTGGGGAGGG
AAGCAGATGCCAGCGTTCTCTGCTGAAAAGACAAGATGGCGCTTGACGGACCACAGCAGATGGAGCTGGAGGAGG
AAAAGGCAGGCAGTGGACTCTGCCAGTATTATCTGTCCAAGATTGAAGAACTCCAGGGTCAACTGCAATATAAAT
TGGATGGGGGAAAGCCACAAGGAACAGTTCTGAACTCCAGGTGCATTTGCAGCTGATTTTGAATGATTAAGACCCA
AAACCTCTGGAGGCGGCAGGTGCACGGGAATGAACTAAATGTTAAAGTGTGCCATTACAGGAGGAGCTACAGCT
GCTGCAGGAATAGGACTCCTGTGTGTCAGGGAAGTAGTCCAGGCCATGGGTAAGAAGAAAGTGTTGGTCAAGGTGCA
TCTCAAGGACAAGTTTGTTCATAGATGTGGACAAAATATCAGCATCAGTGATGTGACACCCAGTTCCTTGGTGGT
TCTAAGAAATGACAGCTACACTTTGCACAAGATCCTACCCAACAAGGTGGACTCATTGGTGTCACTGATGATGGT
GAAGAAAGTACCAGATTCAGCTTATGAAATGATTGGTAGACTGGATAGGCAGATCAAGAAGATCAAAGAAGTGAT
CGACCTGCCTGCTAAGCATCCCGAGCTCTTCAAAGCACTGGGCATTGCACAGCCCAAGGGAATGCTGCTTGGAAG
AGACTGTTGGCCTGGGCTCTGGCTCATCATAGGGACTGTGTACCTTTATTTCATGTCTCTGGCTCTGAATTGGTAC
AGAAATTCATTGGGGAATTTCTGTGATGGCAGAGAAAATGCTCATCTGTCTCATCTTCATGGATGAAATTGACTCTT
TTGGCTCCTCAGAGCTGGAGGGGGATGCTGGAGGGAACAGTGAAGTGCAGCAGATGATGCTTCGAGGGTGGCTTT
GAGGCCACCAAGAGTATCACGGTTTATCACGGCTGCTAATACGATTGATATCCTGGACTCGGCACCTGCTTTGCCC
AGGGCACATTGACAGAAAAATTGAATTCCTCAACCTGCAATGAGTAGGCCTGGCTGGTCACTTTGAAGATTCAATC
TCAGAAATGAACCTGACCCAGGGGATCAACCTGAGAAAAATTGCTGAGCTTATGCCAGGAGCATCAGGCTGAAGT
GAAGGGCATGTGCACAGAAACCGGCATGTATGCCCTGAGTAGCGAGTCCATGTCACTCAGAAGGACTTTGAGGTA
GTCCAAAGTCCTATCTCATGCCAAAGGACAGTGAGGAAAAACATGTCCATCAAGAAACTATGGAATTGAGGGCAC
ATCCTTTGTGTGTATCCCTACAATAAACTCAGTGGGACAAGCAAAAAAAAAAAAAAAAAA

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FIGURE 1046

MGKKKVLVKVHLKDKFVIDVDKNISISDVTPSSLVVLNRDSYTLHKILPNKVDSLVS LMMVKKVPDSAYEMIGRL
DPQIKKIKEVIDLPAKHPELFKALGIAQPKGM L LGRDCWPGWLWIIGTVYLYSCLWL

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FIGURE 1047

GGCGCCATTTTGCTGGAGCCTGCGACCGAGTGGGAGTGGAGTGGAGCGGCTGTGGTTGCCGACTCTTTCCTCTTC
CCCACGGTCCAGTCAGCGGGTTAATTAGGCCATCGGCCCTCGAGCCGAGACTTGTCTCTTATTTAGTTCTGGGGA
GCGCCTCGTCGACATGAGTGATGTGGAGGAAAACAACCTTCGAGGGCAGAGTGAGTACAAAGCCGCGGGAGCCGTC
TAGGCGGCGGCCCAATGCTCGGGGTTTACGGGAACAAGCGCGGTGCGGGCGGGGTTGCGGGTAGTCCCGCGAGGA
GCAACCTCTGGAGCCATCGCGATTGATTCTCCCATCCCAAGATGGCTTCTGGGTTCCACTCCTTCCCCAAACAC
CACGGATAACACCCCTCCCCCTTTTTGGAGGCTGACTGATACCTGGACTTCTGGGTCTCTTCCCTCCCCGCCC
CCGCATTGCTTCTCTCCCTTCTCCCCACCCCTGAGGCTTCCTTATGTCTGCTCCGAGGTGTGGGTCCCCGTCGCGG
TTGGGCGGGAGGAGGCGGCAGGGAGCTCCCTCCGTCCGGATAGTGGTAGGTGCTTCTGCGGTGGCATTCTTG
CGACCCCGAGCATCGTAGAGGGTCTCGGGATCGAAAGTGCGCGGGGCTGCTTTCGGGCGGGGAGAAGCTGGCGT
GGGACTAGCTGGGGCTGTGTCTCCTTGGCTCTCTATTTAGTGAGCGGCCGCGTCTCTGTTGGAACCGCGCGCG
TTGCGTCTAAAAAGGCGAAAGCCTTGAGGTTGAAGGTGGGACGAGCCTAATGAAGTGTTAGTCAACGACCGCAC
CGACCCCTAAGCGTTCTTAAGACGAGAGCTGTGAGGGGAAACTACGCAAGGAGCCCTTTCCCTTAATGTCCCTT
CGACTTTCTTTCACTTCGAAATGAATGTGGAATGCTGTACGCCTTATTTTTCTAATTCCTCGATGTTGGGTT
TTTTCTCTTTTATATCTCAACTTTTAATGCTCTTCTTCTATGACCTTTCATCTAAAACTGACCACTCCTTT
ACAGGTTTTTACGGTAAAAAATCGGTCTTTCTTTAATCTTACATAGCTGAACGAATTCATTGGCTCAG
TATTTTTAAGATAACTAGTCAGTATATACTGTTCTGTAACTTAAAGATGACCTGAAAATTAACAGGCCCTCTCC
CATTTCTCTTCTCACTCTATCCCCACCGAAGAGGGCTCAGAAAAAGTTTTATTAATATATTGGGGTCGGAG
AAATACAAACATCACAAAGATACGATATCCCAGCTTAAATGTACTGGAACGTTTGTGAGTGAGTTTCATTTC
AAAGTTTACCCTACATAGGGAATTGTAGAAGTGAGTTAGTAGAAGTGAGTTCGTGTGAAACCTGGAAAGAAAAC
AAAAGCCCCATGCAACACGTTCCGGGCTGTTGTGTAGATGTTTATTCTAGTCACTAGGGGAAGCACATAAAAAACA
CCTGAGGTGTGTGTGCTGAAGGGCGAATTTTGTCTTTTGGGGAGTTCATGATATAAACATCTAGAACCAAAAAG
TCAAATCAGAAGGTCAGTTTAGGCTTTAGTTCTCTTTGAGGAAAGATTTAAAGCAATAGACTATAATAGTTACCC
GGTAGACTAAAAAATTTGCCTTTAATTCTTTTATTGGAATTTTTTTTACAAAGTTTGGAGCATGGAAACAAAT
GAAAATTGAACCTGCTTATTTTTTAGGATGGTGTATTGATGGCCCCAACAGAACTTTCTAAAATCATGCGATAAA
CATATATGATAGTAGTTGTAAATGCTTCTTGTTTTGAAGATGTTGAGTAATTATCGATAGAAATTTTGTGTCC
ATTCATACATTCTTCAATTAACCTTTCATTGTTAAAAAATTGGGGGATTGATGTTTGGTTTGGTTTGTGGGGAGT
GAAGAGGACTACTGGAGGGACCTTGTGTGCTTCTTTTCTTTTTTAATTTATCATCAAGTCTAGGAAAGGA
GTAAGTTGCCGACAATTGTCACCTTTCCCTCCTAAGAAAGTAACATGTTAAGATTCCCACCTACCAGCCTGGGTG
ACAGTGAGACTCCCGTCTCNNNNNNNNNNNNNNNNNNNTCCCACCCACTTTTAAGCTAAAGTATATGTAGGCA
TTAAAGATTTATTTAATAGAAATAAAGGGCCCTTTACGGCCCTTTGTGGTTCATAGGAAATATTTTTTTCACAAG
TGGTACCCAAGTGATTT

1163/2682
FIGURE 1048

RHFAGACDRVGVEWSGCGCRLFPLPHGPVSGGLIRPSALEPRLVSYLVLSASST

1164/2682
FIGURE 1049

ATCAGCGAGGGATTACAGGCGAAATGAGACTGTTCTGTAGTGATGGCGTCCCGGGTTGCTTGCCGGTGCTGGCCG
CCGCCGGGAGAGCCCGGGGCAGAGCAGAGGTGCTCATCAGCACTGTAGGCCCGGAAGATTGTGTGGTCCCGTTCC
TGACCCGGCCTAAGGTCCCTGTCTTGCACTGGATAGCGGCAACTACCTCTTCTCCACTAGTGCAATCTGCCGAT
ATTTTTTTTTTGTATCTGGCTGGGAGCAAGATGACCTCACTAACCAGTGGCTGGAATGGGAAGCGACAGAGCTGC
AGCCAGCTTTGTCTGCTGCCCTGTACTATTTAGTGGTCCAAGGCAAGAAGGGGGAAGATGTTCTTGGTTCACTGC
GGAGAGCCCTGACTCACATTGACCACAGCTTGAGTCGTGAGAACTGTCCTTTCTGGCTGGGGAGACAGAATCTC
TAGCCGACATTGTTTTGTGGGGAGCCCTATACCCATTACTGCAAGATCCCGCTACCTCCCTGAGGAGCTGAGTG
CCCTGCACAGCTGGTTCCAGACACTGAGTACCCAGGAACCATGTCAGCGAGCTGCAGAGACTGTACTGAAACAGC
AAGGTGTCCTGGCTCTCCGGCCTTACCTCCAAAAGCAGCCCCAGCCCCGCTGAGGGAAGGGCTGTCACCA
ATGAGCCTGAGGAGGAGGAGCTGGCTACCCTATCTGAGGAGGAGATTGCTATGGCTGTTACTGCTTGGGAGAAGG
GCCTAGAAAGTTTGGCCCCGCTGCGGCCCCAGCAGAATCCAGTGTTGCCTGTGGCTGGAGAAAGGAATGTGCTCA
TCACCAGTGCCCTCCCTTACGTCAACAATGTCCCCACCTTGGGAACATCATTGGTTGTGTGCTCAGTGCCGATG
TCTTTGCCAGGTACTCTCGCCTCCGCCAGTGGAACACCCTCTATCTGTGTGGGACAGATGAGTATGGTACAGCAA
CAGAGACCAAGGCTCTGGAGGAGGGACTAACCCCCAGGAGATCTGCGACAAGTACCACATCATCCATGCTGACA
TCTACCGCTGGTTTTAACAATTTGATATTTTGGTTCGCACCACCACTCCACAGCAGACCAAAATCACCCAGG
ACATTTTCCAGCAGTTGCTGAAACGAGGTTTTGTGCTGCAAGATACTGTGGAGCAACTGCGATGTGAGCACTGTG
CTCGCTTCTGGCTGACCGCTTCGTGGAGGGCGTGTGTCCCTTCTGTGGCTATGAGGAGGCTCGGGGTGACCAGT
GTGACAAGTGTGGCAAGCTCATCAATGCTGTGCGAGCTTAAGAAGCCTCAGTGTAAGTCTGCCGATCATGCCCTG
TGGTGCAGTCGAGCCAGCACCTGTTTCTGGACCTGCCTAAGCTGGAGAAGCGACTGGAGGAGTGTTGGGGAGGA
CATTGCCTGGCAGTGACTGGACACCCAATGCCAGTTTATCACCCGTTCTTGGCTTCGGGATGGCCTCAAGCCAC
GCTGCATAACCCGAGACCTCAAATGGGGAACCCCTGTACCCCTAGAAGGTTTTGAAGACAAGGTATTCTATGTCT
GGTTTGATGCCACTATTGGCTATCTGTCCATCACAGCCAACTACACAGACCAGTGGGAGAGATGGTGGAAGAACC
CAGAGCAAGTGGACCTGTATCAGTTTATGCCCCAAGACAATGTTTCTTCCATAGCTTAGTCTTTCTTGTCTCAG
CCCTAGGAGCTGAGGATAACTATACCTTGGTCAGCCACCTCATTGCTACAGAGTACCTGAACTATGAGGATGGGA
AATTCTCTAAGAGCCGCGGTGTGGGAGTGTGGGGACATGGCCCCAGGACACGGGGATCCCTGCTGACATCTGGC
GCTTCTATCTGCTGTACATTGGCCTGAGGGCCAGGACAGTGCTTTCTCTGGACGGACCTGCTGCTGAAGAATA
ATTCTGAGCTGCTTAACAACCTGGGCAACTTCATCAACAGAGCTGGGATGTTTGTGTCTAAGTTCTTTGGGGGCT
ATGTGCCTGAGATGGTGCTCACCCCTGATGATCAGCGCCTGCTGGCCCATGTCACCCTGGAGCTCCAGCACTATC
ACCAGCTACTTGAGAAGGTTCCGATCCGGGATGCCTTGCGCAGTATCCTCACCATATCTCGACATGGCAACCAAT
ATATTCAGGTGAATGAGCCCTGGAAGCGGATTAAAGGCAGTGAGGCTGACAGGCAACGGGCAGGAACAGTGACTG
GCTTGGCAGTGAATATAGCTGCCTTGCTCTCTGTCTGCTTACAGCCTTACATGCCACGGTTAGTGCCACAATCC
AGGCCAGCTGCAGCTCCCACCTCCAGCCTGCAGTATCCTGCTGACAACTTCTGTGTACCTTACCAGCAGGAC
ACCAGATTGGCACAGTCAGTCCCTTGTTCCAAAATTTGAAAATGACCAGATTGAAAGTTTAAGGCAGCGCTTG
GAGGGGGCCAGGCAAAAACGTCCCCGAAGCCAGCAGTTGTAGAGACTGTTACAACAGCCAAGCCACAGCAGATAC
AAGCGCTGATGGATGAAGTGACAAAACAAGGAAACATTGTCCGAGAACTGAAAGCACAAAAGGCAGACAAGAACG
AGGTTGCTGCGGAGGTGGCGAAACTCTTGGATCTAAAGAAACAGTTGGCTGTAGCTGAGGGGAAACCCCTGAAG
CCCCTAAAGGCAAGAAGAAAAAGTAAAGACCTTGGCTCATAGAAAGTCACTTTAATAGATAGGGACAGTAATAA
ATAAATGTACAATCTCTATA

1165/2682
FIGURE 1050

MRLFVSDGVPGLPVLAAAGRARGRAEVLISTVGPEDCVVPFLTRPKVPVLQLDSGNYLFSTSAICRYFFLLSGW
EQDDL TNQWLEWEATELQPALSAALYYLVVQGGKGEDVLGSVRRAL THIDHSLSRQNC PFLAGETESLADIVLWG
ALYPLLQDPAYLPEELSALHSWFQTLSTQEPCQRAAETVLKQQGV LALRPYLQKQPQPSPAEGRAVTNEPEEEEL
ATLSEEEIAMAVTAWEKGLESLPPLRPQQNPVLPVAGERNVLITSALPYVNNVPHLGNIIGCVLSADVFARYSRL
RQWNTLYLCGTDEYGTATETKALEEGLTPQEICDKYHIIHAD IYRWFNISFDIFGRTTTTPQQT KITQDIFQQLLK
RGFVLQDTVEQLRCEHCARFLADRFVEGVCPFCGYEEARGDQCDKCGKLINAVELKKPQCKVCRSCPVVQSSQHL
FLDLPKLEKRLEEWLGRTLPGSDWTPNAQFITRSWLRDGLKPRCITRDLKWGTPVPLEGFEDKV FYVWF DATIGY
LSITANYTDQWERWWKNPEQVDLYQFMAKDNVPFHSLVFPC SALGAEDNYTLVSHLIATEYLYNYEDGKFSKSRGV
GVFGDMAQDTGIPADIWRFYLLYIRPEGQDSAFSWTDL LKNNSELLNNLGNFINRAGMFVSKFFGGYVPEMVL T
PDDQRLLAHV TLELQHYHQLLEKVRIRDALRSILTISR HGNQYIQVNEPWKRIKGSEADRQRAGTVTGLAVNIAA
LLSVMLQPYMPTVSATIQAQLQLPPPAC SILLTNFLCTLPAGHQIGTVSPLFQKLENDQIESLRQRF GGGQAKTS
PKPAVVETVTTAKPQQIQALMDEVTKQGNIVRELKAQKADKNEVAAEVAKLLDLKKQLAVAEGKPPEAPKGKKKK

1166/2682
FIGURE 1051

CAGGAGAAGCTGACCAGCCGCAAGATGGACAGCCGCTGGGGCGGGCGCAGCGAGTCCATCAATGTGACCCTCAAC
GTGGAGCAGGCAGCCTACACCCGTGATGCCCTGGCCAAGGGGCTCTATGCCCGCCTCTTCGACTTCTCGTGGAG
GCCATCAACCGTGCTATGCAGAAACCCAGGAAGAGTACAGCATCGGTGTGCTGGACATTTACGGCTTCGAGATC
TTCCAGAAAAATGGCTTCGAGCAGTTTTGCATCAACTTCGTCAATGAGAAGCTGCAGCAAATCTTTATCGAACTT
ACCCTGAAGGCCGAGCAGGAGGAGTATGTGCAGGAAGGCATCCGCTGGACTCCAATCCAGTACTTCAACAACAAG
GTCGTCTGTGACCTCATCGAAAACAAGCTGAGCCCCCAGGCATCATGAGCGTCTTGGACGACGTGTGCGCCACC
ATGCACGCCACGGGCGGGGAGCAGACCAGACACTGCTGCAGAAGCTGCAGGCGGCTGTGGGGACCCACGAGCAT
TTCAACAGCTGGAGCGCCGGCTTCGTATCCACCACTACGCTGGCAAGGTCTCCTACGACGTACAGCGCTTCTGC
GAGAGGAACCGAGACGTTCTCTTCTCCGACCTCATAGAGCTGATGCAGTCCAGTGACCAGGCCCTTCTCCGGATG
CTCTTCCCCGAGAAGCTGGATGGAGACAAGAAGGGGCGCCCCAGCACC GCCGGCTCCAAGATCAAGAAACAAGCC
AACGACCTGGTGGCCACACTGATGAGGTGCACACCCACTACATCCGCTGCATCAAACCCAACGAGACCAAGCAC
GCCCCGAGACTGGGAGGAGAACAGAGTCCAGCACCAGGTGGAATACCTGGGCCTGAAGGAAAACATCAGGGTGC
AGAGCCGGCTTCGCCTACCGCCGCCAGTTCGCCAAATTCCTGCAGAGGTATGCCATTCTGACCCCCGAGACGTGG
CCGCGGTGGCGTGGGGACGAACGCCAGGGCGTCCAGCACCTGCTTCGGGCGGTCAACATGGAGCCCGACCACTAC
CAGATGGGGAGCACCAAGGTCTTTGTCAAGAACCCAGAGTGCCTTTTCTCTCTGGAGGAGGTGCGAGAGCGAAAG
TTCGATGGCTTTGCCCCGAACCATCCAGAAGGCCTGGCGGCGCCACGTGGCTGTCCGGAAGTACGAGGAGATGCGG
GAGGAAGCTTCCAACATCCTGCTGAACAAGAAGGAGCGGAGGCGCAACAGCATCAATCGGAACCTCGTCGGGGAC
TACCTGGGGCTGGAGGAGCGGCCGAGCTGCGTCAGTTCTGGGCAAGAAGGAGCGGGTGGACTTCGCCGATTTCG
GTCACCAAGTACGACCGCCGCTTCAAGCCCATCAAGCGGGACTTGATCCTGACGCCCCAAGTGTGTGTATGTGATT
GGGCGAGAGAAGATGAAGAAGGGACCTGAGAAAGGTCCAGTGTGTGAAATCTTGAAGAAGAAATTGGACATCCAG
GCTCTGCGGGGGGTCTCCCTCAGCACGCGACAGGACGACTTCTTCATCTCCAAGAGGATGCCGCCGACAGCTTC
CTGGAGAGCGTCTTCAAGACCGAGTTTGTGAGCCTTCTGTGCAAGCGCTTCGAGGAGGCGACGCGGAGGCCCTG
CCCCTCACCTTCAGCGACACACTACAGTTTTCGGGTGAAGAAGGAGGGCTGGGGCGGTGGCGGCACCCGCAGCGTC
ACCTTCTCCCGCGGCTTCGGCGACTTGGCAGTGCTCAAGGTTGGCGGTTCGGACCTCACGGTCAGCGTGGGCGAT
GGGCTGCCCAAGAACTCCAAGCCTACCGGAAAGGGATTGGCCAAGGGTAAACCTCGGAGGTGCTCCCAAGCCCCCT
ACCCGGGCGGCCCTGGCGCCCCCAAGGCATGGATCGAAATGGGGCCCCCTCTGCCCACAGGGGGGGGGCCCCC
TGCCCCCTGGAGAAATTCATTTGGCCCAGGGGGCACCCACAGGCCTCCCCGGCCCTCCGTCCACATCCCTGGGAT
GCCAGCAGACGACCCCGGGCACGTCCGCCCTCAGAGCACACACAGAATTCCTCAACGTGCCTGACCAGGGGGATG
GCCGGCATGCAGAGGAAGCGCAGCGTGGGGCAACGGCCAGTGCCTGTGGGCGGACCCAAGCCCCAGCCTCGGACA
CATGGTCCCAGGTGCCGGGCCCTATACCAGTACGTGGGCCAAGATGTGGACGAGCTGAGCTTCAACGTGAACGAG
GTCATTGAGATCCTCATGGAAGATCCCTCGGGCTGGTGAAGGGCCGGCTTCACGGCCAGGAGGGCCCTTTTCCCA
GGAACTACGTGGAGAAGATCTGAGCTGGGCCCTGGGATACTGCCTTCTCTTTGCCCCGCTATCTGCCTGCCGG
CCTGGTGGGGAGCCAGGCCCTGCCAATGAAAGCCTCGTTTACCTGGGCTGCAATAGCCTAAAAGTCCAATCCTTT
GGCCTCCAGTCCTTGCCAGGCCCTGGGTCAACAGGTCACTGGTGCAGCCCCGCCCCCTGGGCCCTGGTTTTCCT
CCAACATCACACCTGCTGCCCATTTGCCAAAACGTGTGTGTGTCAAAGGGGACTAACAGCAGAATTTACCTCCCAA
CTGCCATGTGATTAAGAAATGGGTCTTGAGTCCTGTGCTGTTGGCAAAGTTCCAGGCACAGTTGGGGAGGGGGGG
CCGGAATCCGC

1167/2682
FIGURE 1052A

TCGAGACCAAAAAAGATGACATTAACAAAAATGATGCGGAGAAACGGCGGGCGGGCGGGCGGCATCGGCAGCAGT
AGCAGAGGCTGTAGCATCGGACACCCTCCTCTCTCCCGCAATCCGGTTCCTCTTCCCCCTCCTTCTCACTGTTTG
TTGTGTGTTTGTATGTGTTAAAGCAGGAGCGAGAACCCGAGCAGCGCCATGAGCAACACTACCGTCGTCCCCAGCA
CTGCAGGTCCGGGCCCCAGCGGCGGGCCCCGGTGGCGGAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCGGCACCGAGGTA
AGGTGACTAATGTCTCCCCGAGCGCTAGCTCTGAGCAGATGCGGACTCTCTTCGGTTTCTTAGGCAAGATC
AACTGCGCCTCTTCCCCGCGGATGATTGCGCTTTGCCAGTCTCATCTCGTGTCTGCTTTGTAAAGTTCCAT
CAGACTCAGCAGTTGTGGCACAGCATCTGACAAACACTGTATTCTGTTGACAGAGCTTTGATAGTCGTACCA
ATGCAGAAGGTTTGTGCTTTGTTTAACTACCTATGTGGGCATCCTAAGATGACCATCTACCTCAGTAGATGTAG
GAGCATTAGTAGCATGTTAAATCTAAGCTATTAACATTTTTAAACCCTTGTTATACTGCAGTCCGTAATTTT
GCGAGATTTTTTTTAAATTCTAAAAATTAGAAATTAGGTCTGTTATTATAAGGTATTTACCTTTTGTTTTCT
AAACATTTTTTAAGTTGTTTAAACCATGTCCCTTATTGTAACCTCCCTGAGATACATCTACTTAGTTAATTT
TTAAGTTTTATGAAAAAGCCCTGAAGGTAAATGATTCACTCCATGTATGCTTACAGAGCCTTCAAATAAAT
ATGATGTTATTTCTGTTTTAAATAAATGAGTAGGTTGATTTTATTTTCTTAAAGCTTCCTCACATTGATAATC
GAAAAAAGACACATTGAATTTTCAAGTATACCAAGGTTGCAGTGATTTTGGTTTTCTGTAAGTTCAAGA
TTTCTGTAGCTTAGGTGCCAAATGGGCACCTGGGTGTTTTATTTTATGCCAGATTTTCTGTTCATTCTTGCTAT
AATTTCTAGAATATCTCTAAATAATAAATTTCTCTCTGTTATTTGTGTGTGTGATTTTATAGTGGAGAAGGCA
AATGCAAAACCCCTCCAGATGCCTGAAAAACAGTGGGTCTCTGCAGCTACAGGGGATTCTAGACATTAACATAA
GGCCAGCAAGCACTCAAGTGCCCCAAGTGTTTTCTGTGTGTAACCATTTTGTAACTACATTTTCTCTCTTTTAC
ATTTTAGGCTGTTAAAGTAATTTGACAGAAAAAATGAGCAGGTTTTTGGATCTAAAAAGCCACTGTGACAAGA
AATTTTAATACCATTTTGTAAATTTTTCTAAGGCGTATTTTATAATTAGTTTGTTCCTAATGTACTGCTACTTGA
TTTGCATTTTTGGTAACTATAAATTTTACTCGAATCACTGAAATATGATAAACTGCTGGATTTTAAAGTTAATAAT
TTAATATGCTGACCAGGATTTAAATGCTTTCCCTTTCTTAAATAAACTGGTCAAGTGAAGTGAATCTTAATAT
TGTTCATTTTAGATGCTATCTGAAATCTTTGAAACAAATGTGAGCATTACACCATACCTTGTAAGGTTGTGA
AATGTCTAGTCCTTAACAGAGAAGTTGCCTCTGGTTTTCTAAAGAAATTAACCTATATTTATAAATGGGTTAAGA
CATGTTATGTAATAGTACCTCTGTCTCCATGATATTAAAGTGTATGAGCCCAGTTTTAAGGTTTTGTAATGTATA
GATAGATAAATTTTTGAGTTAGTGTGTTTTGGTTAAGCAATTTCTTTTATGTCAGTGTGCCTGTTGTAGGATAAG
ACCATCAACAGAAAATTTACAGAATTCAAATTCAGGATGAATAAAATAGAGTATAGGTCTTGGAACAAGGGTCAA
ATCATGTGAGTAATATGTAAACATTTTGGTTAGCCTGTAAATTTAAATTTTTTATTGGCTAAGTATTATAGTTC
CCAATCCCTGAACATAATACAGTATATCATATAAATGACTTTCATAAATATTTTACAGGCCATAGTAATTTTTCTA
GACCTATTTTTGGAAGTGAAGTATTTAGGAATATACAGTATATAGAATTAGGGGAATATTTTATTTCAGAAATCTA
TTGTTGGTGAATTTAATTTCTGGTATGATATGCTGTATTAATGTTACCTCCAGTAAATACAATTCCTCCAGATTT
AGCTATTACACTTCGGTGTAGCTCTTGGTCAGTGTTTTAGAACAGTAGACATAGTCTACGGTAAGGAATAGTCT
TAATTGGTAAACTAAGATAGCTGAATTTGGAAGGAACCTTAAATAGTAATGGATTGGGGATTTTTTAGGTTCC
TTGGTTAATGTTTGTCTTTTGTCTGTTTCTTTTCTTTTCTTTTCTTACATTCATGCAGTATTTTATGTTCT
ATCAAAGCAGCAGTAAAAAAATACTCTTGACGCATGAAATTAACCTGGTGAGGGGCTCATTGCTATTTTTAA
TTGTAGTTTTATTTTTAAATAGTCTTTTTTAAATCAGAGGATCAGATGCATGACTTTTTTTTTTAAATGGATGCA
GATCTTCTATCAGGTGTCTCACAATAAATCAAGAGGATTTTAGTTTGGCAGAAATGTTGCAATGCACTAATTT
GAGTAAGATGTTGATACTGAATATATCCTCTTGAGACATAATTTGCATGCAAAATATCCATAATCTTTGTAG
GTTTGTAAATATTGATGCATTACTGCCCTATATCTAAATGATCTTCTCCCCCTTCCCTCCATAACTCTTGGTAT
CTAAATTGATGACAGCTCTGACACAAGCAAGATAACAGTGTGTGTAGTATACATTTGTTTATATTATCGGCCT
TCTCAGTATAGGTGGAAGGAACCATACCTTTATTTAACAGTGGTTTTTCTTTTTTGTGTGTGTGTGTGTGTGTGT
CTTTTCCCTGGTTTCAGCCTGAACCTATATACCAGGCCCTGCTGAAATACCACCAACAGTTTTCTTCTGCAGCTT
ATCCAGTTTTCTCTTAAAGTGCCCTGTACATATTGTATGTTTTATGATGAGATGCAGTTTCTTAATATGTATTACAG
AAATACTACTGGTATTTGCAAAATATGTAGTTTAAATGTATTATTGAACCTCTATTTTGGGGGCTTGGGCACATTA
ACAGATTAATCCATCTGTATAGGGCTTTTGGCTGTTGGATAGAATTTAAATTGTCTACATAAAATATTGTTTTAGG
ACCCTTAGATTTTATCTGAATACACAGATTAGGCTTTAAAAACAGATATATATGTTCATTTTTGGCTTAAGGAGTT
TGGCTAAGTTAGCTTTTCAACTGGCCTGTATGGCAGCATTTTTTGGTATGGTTAGCATGGCACATGGCGAAACA
TAAAGCATTTTACTGTACAGGTAAGGAATGTGCCATGTTGTTTTACCTATCTCTCTTCTCTCTCACTCCCATGC

1168/2682
FIGURE 1052B

ACACATCCTGTGTGTATTTCAGAGACCTTCAGAAACATTCATATTCATTTTCATGAGTCAGCAAAAGCCCTACGCT
TGATTCCAACAGAATATTTTCCTTTACATACTTTCTTCTCTTAATTTTTACAAAATTTGTATGGTAGGTGTAAAAG
AAAATCATAGTAACTGTACCATATTATTAACCCCTAAATCAAACCTTTTTTGTCTTGTGTATCTTGATTTTCTG
TGTGCTTTATAGTGAAGCAGCCGACACGAGTCGTTGTTTCATAAAACAGCTTTTGAAAGTTGAGAGCACACCCCTG
GAGAACCGACTGTGCTTGCTTACGTTTGGTTCATGACTTAAAAATCGAGTACAGGAGTTATTCCTGATGAAGCTA
AAGCTTTGTCTCTGTTGGCACCAGCTAATGCAGTGGCAGGTCTTCTGCCTGGTGGTGGACTCCTGCCTACTCCTA
ACCCACTTACCCAGATTGGCGCTGTTCCACTGGCTGCTTTGGGGGCTCCTACTCTTGATCCTGCCCTTGCTGCAC
TTGGGCTTCCTGGAGCAAACCTGAACTCTCAGTCTCTTGCTGCAGATCAGTTGCTGAAGCTTATGAGTACTGTTG
ATCCCAAGTTGAATCATGTAGCTGCTGGTCTCGTTTCACCAAGTCTGAAATCGGATACCTCTAGTAAAGAAATAG
AGGAAGCTATGAAAAGAGTACGAGAAGCACAGTCCCTAATTTCTGCTGCTATAGAACCAGATAAGAAAGAAGAAA
AAAGAAGGCATT

1169/2682
FIGURE 1053

RDQKKMTLTKMMRRNGGGGAASA AVAEAVASDTLLSPAIRFLFPLLLTVCCVFDVLKQEREPEQRHEQHYRRPOH
CRSGPQRRARWRXXXXXXXXXAPR

1170/2682
FIGURE 1054

CGGAAAAAAAAATGGTTGAAGCAGATCGCCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAACAAATGAGA
AAGCTCTTGAAGCAGTATTTGGCAAATATGGACGAATAGTGGAAGTACTCTTGATGAAAGACCGTGAAACCAACA
AATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAA
AGTCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAAACCATCATTGAAAGTGGTAGACGTGGACCGC
CTCCACCTCCAAGAAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACAGGGGAC
CTCCCTCACGGGGAGGACACATGGATGACGGTGGATATTCATGAATTTTAACATGAGTTCTTCCAGGGGACCAC
TCCCAGTAAAAAGAGGACCACCACCAAGAAGTGGGGGTCTCCTCCTAAGAGATCTGCACCTTCAGGACCAGTTC
GCAGTAGCAGTGGAAATGGGAGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGG
AACCCTGCCCCTCTCGTAGAGATGTTTATTTGTCTCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAA
GCAGAGATTACCCAAGTTCTCGTGATACTAGAGATTATGCACCACCACCAGAGATTATACTTACCGTGATTATG
GTCATTCCAGTTCACGTGATGACTATCCATCAAGAGAATATAGCGATAGAGATGGATATGGTTCGTGATCGTGACT
ATTGAGATCATCCAAGTGGAGGTTCCTACAGAGATTATATGAGAGTTATGGTAACTCACGTAGTGCTCCACCTA
CACGAGGGCCCCCGCCATCTTATGGTGGAAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTG
GAAGTCGAGACAGTTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTTCGTGATCGGGTTGGCAGACAAGAAA
GAGGGCTTCCCCCTTCTATGGAAAGGGGTACCCTCCTCCACGTGATTCTTACAGCAGTTCAAGCCGCGGAGCAC
CAAGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGAAAAACAAACAAAC
TTTGGACCAAAATCCCAGTTCAAAGAAACAAAAAGTGGAAACTATTCTATCATAACTACCCAAGGACTACTAAAA
GGAAAAATTGTGTACTTTTTTTAAATTCCCTGTAAAGTTCCCCTCCATAATTTTTATGTTCTTGTGAGGAAAAA
AGTAAACATGTTTAATTTTATTTGACTTCTGCATTGCTTTTCAACAAGCAAATGTTAAATGTGTTAAGACTTGT
ACTAGTGTGTAACTTTCCAAGTAAAAGTATCCCCTAAAGGCCACTTCTATCTGATTTTTTCCCAGCAAATGAGG
CAGGCAATTCTAGTCTTCCACAAAACATCTAGCCATCTAAAAATGGAGAGATGAATCATTCTACCTATACAAACAA
GCTAGCTATTAGAGGGTGGTTGGGGTATGCTACTCATAAGATTTTCAAGGGTGTCTTCCAAGTAAATCTCAATGTT
CTCAGTACGAAAAACCTGAAATCACATGCCTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAAAAAGCAAA
TGGATAATGCTGGCCATTTTGCCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCTTCCCCCA
ATAAGACCATTTAAGTGTGTGTTAAACAACACTACAGAATACTAAGTAAAAAGTTTGGCCAAAACCAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

1171/2682
FIGURE 1055

MVEADRPGLF IGGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGFAFVTFESPADAKDAARDMNGKSLD
GKAIKVEQATKPSFESGRRGPPPPPSRGPPRGLRGGRGGSGGTRGPPSRGGHMDDGGYSMNFNMSSSRGPLPVK
RGPPPSRGPPPKRSAPSGPVRSSSGMGGRAPVSRGRDSYGGPPRREPLPSRRDVYLSRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSREYSRDRDYGDRDRDYSHPGGSYRDSYESYGNRSAPPTRGP
PPSYGGSSRYDDYSSSRDGYGGSRDYSSSRSDLYSSGRDRVGRQERGLPPSMERGYPPPRDSYSSSRGAPRGG
GRGGSRSRGGGGRSRY

1172/2682
FIGURE 1056

ATTTTGTGGAATAGAGTTGATCGCTGTCTCCTCCGCAAAGCATTTTAACTCGAATAAGCAAATGCCGCCTCTGTT
TGAACGTTTTGGTATTTACAAGAGAGAAATCATTTTACCTAAGAGAACTAATTGAATTGGCAGCATCCTTGAAAT
ACCTCCGGACAAGGATCTGGGGGTGGGGGTGGAAAAGCAACTGCGAAATAGCAGACGGAGAAATTCCTTTGGAAG
TTATTCCGTAGCATAAGAGCTGAAACTTCAGAGCAAGTTTTTCATTGGGCAAAATGGGGGAACAACCTATCTTCAG
CACTCGAGCTCATGTCTTCCAAATTGACCCAAACACAAAGAAGAAGTGGGTACCCACCAGCAAGCATGCAGTTAC
TCTTATTTCTATGACAGCACAAAGAAATGTGTATAGGATAATCAGTTTAGATGGCTCAAAGGCAATAATAAA
TACCATCACCCCAAACATGACATTTACTAAAACATCTCAGAAGTTTGGCCAGTGGGCTGATAGCCGGGCAAA
CACCGTTTTATGGATTGGGATTCTCCTCTGAGCATCATCTTTGAAATTTGCAGAAAAGTTTCAGGAATTTAAAGA
ATGTGCTCGACTAGCAAAGGAAAAATCACAAGAGAAGATGGAACCTTACCAGTACACCTTCACAGGAATCCGCAGG
GATCTTCAGTCTCCTTTAACACCGGAAAGTATCAACGGGACAGATGATGAAAGAACACCTGATGTGACACA
TCAGAGCCAAGGGCTGAACCAACTCAGAATGCATTGCCATTTTCACATAGTTCAGCAATCAGCAAACATTG
GCTGAACTGGCTACCCCTCAAAGGAAATAATGCCAAACTCACTGCAGCCCTGCTGGAGTCCACTGCCAATGT
ACAATGGAAACAGCAACTTGCTGCCTATCAAGAGGAAGCAGAACGTCTGCACAAGCGGGTGACTGAACTTGA
GTGTTAGTAGCCAAGCAAATGCAGTACATACTCATAAGACAGAATTAAATCAGACAATACAAGAACTGGAAGA
GAACTGAAACTGAAGGAAGAGGAAATAGAAAGGTTAAAACAAGAAATTGATAATGCCAGAGAACTACAAGAACA
GAGGGATTCTTTGACTCAGAACTACAGGAAGTAGAAATTCGGAACAAAGACCTGGAGGGACAACCTGTCTGACTT
AGAGCAACGTCTGGAGAAAAGTCAGAATGAACAAGAAGCTTTTCGCAATAACCTGAAGACACTCTTAGAAATTCT
GGATGGAAAGATATTTGAACTAACAGAATTACGAGATAACTTGGCCAAGCTACTAGAATGCAGCTAAGGAAAGTG
AAATTTAGTGCCAATTAATTAAGATACACTGTCTCTCTTCATAGGACTGTTTAGGCTCTGCATCAAGATTGC
ACAAAAAAAAAAAAAAAAAAAA

1173/2682
FIGURE 1057

MGEQPIFSTRAHVFQIDPNTKKNWVPTSKHAVTVSYFYDSTRNVYRIISLDGSKAIINSTITPNMTFTKTSQKFG
QWADSRANTVYGLGFSSEHHLSKFAEKFOEFKEAARLAKEKSQEKMELTSTPSQESAGGDLQSPLTPESINGTDD
ERTPDVTQNSEPRAEPTQNALPFSHSSAISKHWEAELATLKGNNAKLTAALLESTANVKQWKQQLAAYQEEAERL
HKRVTELECVSSQANAVHTHKTELNQTIQELEETLKLKEEEIERLKQEIDNARELQEQRDSLTKLQVEVEIRNKD
LEGQLSDLEQRLEKSQNEQEAFRNNLKTILLEILDGKIFELTELDRNLAKLLECS

1174/2682
FIGURE 1058

GAATTCAGCACAAATGAAGGAGCCATGGAATGCCAATTTAACGTCAGTCTTGACTTGAAGGGAAAAAACAACCTT
GTAATGGTGGCAACAGTGAAGCTGTTCCCTTTAACATCCCCAAATATAGCCAAGTTTAGCACTCCACCAGCCATCC
TCAGAAAGAAGAGAAAAATGCGAGTGGGTCAATCCCCAGGCAGCGAACTTAGGGATGGCTCATTGAACGATGGTG
GTAATGAACAACTTAATATAGAAAATCCTTCATTACATCAACCCCTATTTGTGGGCAGAAAGCTCTCATTACAA
CTCCTCTTCATAAGGAAACAACCTCCCAAAGATCAAAAGGAAAATGTAGGGTTTAGAACACCTACTATTAGAAGAT
CTATACTGGGTACCACACCAAGAACTCCTACTCCTTTTAAGAATGCGCTTGCTGCTCAGGAGAAAAAATATGGAC
CTCTTAAATTTGTGTCCCAGCCACTTGCTTTCTTGGAAGAAGATATTCGGGAAGTTTTAAAGAAGAAACTGGAA
CAGACCTATTCTCAAAGAGGAAGATGAACCTGCTTACAAAAGCTGCAACAAGAGAATACCGCTTCTGGGAAGA
AAGTCAGAAAATCACTAGTCTTAGATAATTGGGAAAAAGAAGATCAGGCACTCAACTGTTGACTGAAGACATTT
CAGACATGCAGTCAGAAAATAGATTTACTACATCCTTATTAATGATACCATTATTGGAAATACATGACAATAGGT
GCAACTTGATTCTGAAAAACAAGATATAAATTCACCAACAAAACATATACACTTACTAAAAAGAAACCAACC
CTAACACTTCCAAAGTTGTCAAATTTGGAAAAGAATCTTCAGTCAAATTTGTGAATGGGAAACAGTGGTTTATGGGA
AGACAGAAGACCAACTTATTATGACTGAACAAGCAAGAAGATATCTGAGTACTTACACAGCTACCAGTAGTACTT
CAAGAGCTCTCATACTGTAATTGTTATTAAATTTGATGAAATGCCCACTCCCTTACTGCAGTCTCTACTAAATT
AGGTTGCAGTGAAATTTTTCTCAATTAGTTGTTTTTAAAGTTGTAAGATACCCTTTTAATACAGCATCTTTTTTC
TATTCTATATAGTAGGCAGAAAGCTAGTAAGTCACTTAAGGGGTAGATAGTTTCATAGTTTATTTTTTAAAGAT
GAGATTTTTTAAAAATTGTTTTTAAAGAACAAGATGGGAAAAATAAGAAATGTTTCATGGATTCTAAAAGTAAATT
CTCATATATTTTCTTCACAAGATATATGTTGCTACTCTCTTGATGCTGCAGTTTTGTTATAGATAGGTGTATGAG
TATATATGATTCTGAAATTAGTCTATGTATGGAAAGCACACATGATTTTATGAAGGTACTTTTGCCCATGTGCT
GATTTACTTAGGCTACCATTTACAAAGAAACACATTGAAAAGGAATTTAAAGGAAGGATAGAAAGTTGCACTACT
AATTTTTTGTTTTTTTTTTTTCAGAAGCAGTAAATTAACCTACAGTGTTAAATGTATTTATTTGAGCATAGTACTGA
AAACAAAAGCATTCAAAAAGAGTTTTTTCTTTATTAGTAAATAGTATTTCTTAATCTCAGAGGAGCTGAGAG
TTTTGTGAATGTATTGTACAGTATGTAGGAGCAGGAGAACTTTGTAATTTGGAAAGAAGTCTGTTTTTATAATT
TATTTTTATTTTTAAAGCTTAAATGTAGATATTTATAGTATACAGGGAGCCTAGAAGCCAATGTTGTTTCCTGTT
ATTACAGCTAACACAGTAAAGAATAATTTTGACTTTAAGTATGAAACAGTAGTAAGTTATAGCTGCAAAGAATAC
AATATCTATACTGTATGTCACATCTACCTAAATGTTGCACTATGCCCTTTAAATCATGCTGGTTATAAAGTAGTT
CTAAAATGTACTAAATAATAATTTAATATTTTCTTTTAAATTATATCGGGGGTGGTCATATACATTAATCTGG
TGATTTGTATATGTGTTTGAATTTTTTGCTTTTGTTTAAAAAAAATAATATGGTACCTTGGTCCCTAAAAACA
GTCTGCACCTTAGAAGTTATATTTACTCAGTGTTTCAAGAGTGGAAGTATCTTTTTATTTATAAAAATATTTTG
TCCTTTTTTAAATGTTTTGTGTTTCTCTACAGGTTACAACAGTTGCTTCAGTTGCCTGTTTTAGGTGTTTGCCT
TATTTTATTTCTTCTTGAAAGAATTTTTATTTGCTTTTGTTGGTAGAGATTATATGTAATTTTTTTTCAGTCATAT
AATGGTGTGCTGTCAACTTAAACACTGACAGGTAAATAGAATTGTACACTGTAGTTTGAATTATTTATAATTGAC
ACACTCTCTCCCTCTCCACTCCTGAAGTATGCTGCTATAGAAAATAGCAGAATCGGCTTGCTGCTACGAGAGAAG
GAAAGAGCGACCACCACTTGCACTGTGTGAAAAGATAAAAAACAAATGATGGCAAGTTCTCAAGTTAACTAAATG
GAATCAACCATTACCAGGCAAATTTCTTGCAAATACCAAATACTACTATGCCTTATAAAACAAAATGAAAGCAGG
TTAAGATTTTCTGCTCTGTTTGTATGTTAATAGAAATGGAAATACTAAGTATTTTAAATGCTTAGCTATTGAACAG
TAGACCTAAAAGGGTTTTTAAGCTATTTAAATCTACTTGCTAGTTTTTGCATATTTTATATATATATATTTATA
TATATATATAGTGAGAAGTGAAAGAAAATGTATGGTACTAAGATTATGCCTTATTGATAAATAGATAAACCAATTT
GAATCCTCTTAGCATGTTTAAAGTATGTTGATTGCTTTCTAATTAATGAACCTTCTCACAGAAATTTCACTTAGTGA
AACCAATGATTGTAGCAAACTCATACTGGATCATTTTCAGTTACCTTGAACCTAATAGCACATAATGGTTTTTTGTT
GTTGTTGTTTTTAAATGTAGCCCTTACCTGGATATACATAGTCTGCAATCACCAAAGTATAATATCTTGTAAGGCT
ATATTTTTTAAAGCATATTTTTCTTGAGCATTAAATTATCCTAAATGGTAATATATTGTGGATAAGTCTGGGCT
TATTTGACATAATACATATTTGGGTTGGTACTGGTTGAATCCTTCAGTTAACTGCTTTGTTGCTTTTTGCAAGAT
TTTTTATCTTAAACATGTCAGGCATCTTAAGTCACCTTTTACTGTTTTGTTCCCTCTGAGTTTCTTTCAGTATGT
TATACAAATGCCAGACATAACATGTAGCAGCCATACTTGCAATGGAAGTACTACACATACATAATACTGCATTT
TATTGTAAGGTTTTACATTAATACAGCAATTACCCTGACTAAATTGAGTTTTGTGATATATGGAAAACCTTCATT
GTAAGAGAATCTTGCAACAATGTTGACTATTAACATCCAAAATAAAGCATCTGTGTACAAG

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FIGURE 1059

GCGTGCTGGCCCGGGGTGGCAGGAGCCGCGAGAGGCTTGGGCTGCAGAAAAAGGATCCTGTTTGCTGTGTAATCCT
GAGAATGGACTGCAAGAGAGGAAAACTGGGCGTCTGCTTGGGAATCTATTGTGGAACCCAGGGTGTTCCTCGA
CCAGTCCCTGGGCGCAACTAGAGTATGGACTGACCAGGTACCTGGATGGAGACCTGAGCTGGAGAAGGAGATGC
GCTTGGGAGGAAATTGCAGAGGCCGTCAACATGGAAAAGCAGCCCCAGAACAGCAGGAGAGGCCTCGCCCCCGA
GAGGTGCCGCCAGCTGTTGGGCTGCTGCTGATCATGGCCCTGATGAATACTCTACTCTACCTCTGCCTCGACCAC
TTCTTCATCGCTCCTCGACAATCCACTGTGGACCCACACACTGTCCCTATGGTCACTTCAGGATAGGACAGATG
AAAACTGCTCACCTTGGCTGTCTGCGAGGAGCTGAGAACAGAAGTGAGACAGCTGAAGCGTGTGGGGAAGGA
GCTGTAAAGAGAGTCTTTCTGTCTGAGTGGAAGGAGCACAAAGTTGCACTCTCACAGCTCACCAGCCTGGAGATG
AAAGATGATTTCCCTCCATGGACTGCAGATGCTGAAATCTCTCCAAGGCACACATGTTGTCACGCTGCTTGGCTAT
TGTGAGGATGACAACACTATGCTTACTGAATATCACCTCTAGGTTTCCTTGAGTAACCTGGAAGAAACACTAAAC
CTTTCAAAGTACCAAAATGTGAACACGTGGCAGCACAGGCTGGAGCTGGCCATGGACTATGTCAGCATCATTAAAT
TACCTGCACCACAGCCCTGTGGGCACACGGGTCATGTGCGACTCCAACGACCTGCCGAAGACACTGTCCCAGTAT
CTGCTAACAAGCAACTTCAGCATTTTGGCAAATGACTTGGACGCCTTACCCCTGGTGAACCACAGCTCCGGGATG
CTGGTGAAGTGCGGCCACAGGGAGCTGCATGGGGATTTTCGTGGCTCCAGAGCAACTGTGGCCCTATGGAGAGGAC
GTGCCTTTCCACGATGATCTCATGCCCTCATATGATGAGAAGATTGACATTTGGAAGATCCCAGACATCTCCAGT
TTCTTTCTGGGGCACATTGAAGGGAGTGATATGGTCCGATTCCATTTGTTTGATATTCACAAAGCATGCAAGAGC
CAGACTCCCTCAGAAAGACCCACTGCCCAGGACGTTCTGGAGACCTACCAGAAGGTCTTGGATACACTTAGAGAT
GCCATGATGTCTCAGGCAAGAGAGATGCTGTGAAAACCAGTCCAGCCAATGAAGGTGGGATTGAAGGGCTGAATG
GAAGTTACAGCATTCTACTCTGATGGTGGAGTTTTTTGCCTGAGTTTCGTGTTTTATTGTTTTTTTTATGGCTTA
GCCATGTGGTTCGTTGTCCACATCCACATGTACGTTTGTATGTAGTCCACATTGGTTGTTAGATTTTTTTTTTTTT
TTCTTTGAGATGCGGTCTTGCTCTGTTGCTGAGGCTGGAGTGCAGTGATGTGATCTTGGCTCACTGCAGCCTCTG
CCTCCCAGGTTCAAGCAATTCTCCACCTCAGCCTCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCGG
CCACATTCAGTTCTTATCAAAGAAATAACCCAGACTTAATCTTGAATGATACGATTATGCCCAATATTAAGTAAA
AAATATAAGAAAAGGTTATCTTAAATAGATCTTAGGCAAAATACCAGCTGATGAAGGCATCTGATGCCTTTCATCT
GTTCAAGTCATCTCCAAAACAGTAAAAATAACCACTTTTTGTTGGGCAATATGAAATTTTTTAAAGGAGTAGAATA
CCAAATGATAGAAACAGACTGCCTGAATTGAGAATTTTGATTTTTTAAAGTGIGTTTTCTTTCTAAATTGCTGTTC
CTTAATTTGATTAATTTAATTCATGTATTATGATTAAATCTGAGGCAGATGAGCTTACAAGTATTGAAATAATTA
CTAATTAATCACAATGTGAAGTTATGCATGATGTAAAAAATACAAACATTCTAATTAAGGCTTTGCAACACCA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1060

MEKQPQNSRRGLAPREVPPAVGLLLIMALMNTLLYLCLDHFFIAPRQSTVDPTHCPYGHFRIGQMKNCS PWLSCE
ELRTEVRQLKRVGEGAVKRVFLSEWKEHKVALSQLTSLEMKDDFLHGLQMLKSLOGTHVVTLG YCEDDNTMLTE
YHPLGSLSNLEETLNLSKYQNVNTWQHRLELAMDYVSIINYLHHSPVGTRVMCDSNDLPKTL SQYLLTSNFSILA
NDLDALPLVNHSSGMLVKCGHRELHGDFVAPEQLWPYGEDVPFHDDLMP SYDEKIDIWKIPDISSFLLGHIEGSD
MVRFHFLFDIHKACKSQTPSERPTAQDVLETYQKVLDTLRDAMMSQAREML

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FIGURE 1061

GAACAACCCAGAAACCTTCACCTCTCATGCTGAAGCTCACACCCTTGCCCTCCAAGATGAAGGTTTCTGCAGCGC
TTCTGTGCCTGCTGCTCATGGCAGCCACTTTCAGCCCTCAGGGACTTGCTCAGCCAGATTTCAGTTTCCATTCCAA
TCACCTGCTGCTTTAACGTGATCAATAGGAAAATTCCCTATCCAGAGGCTGGAGAGCTACACAAGAATCACCAACA
TCCAATGTCCCAAGGAAGCTGTGATCTTCAAGACCCAACGGGGCAAGGAGGTCTGTGCTGACCCCAAGGAGAGAT
GGGTCAGGGATTCCATGAAGCATCTGGACCAAATATTTCAAAATCTGAAGCCATGAGCCTTCATACATGGACTGA
GAGTCAGAGCTTGAAGAAAAGCTTATTTATTTTCCCCAACCTCCCCCAGGTGCAGTGTGACATTATTTTATTATA
ACATCCACAAAGAGATTATTTTAAATAATTTAAAGCATAATATTTCTTAAAAAGTATTTAATTATATTTAAGTT
GTTGATGTTTTAACTCTATCTGTCATACATCCTAGTGAATGTAAAATGCAAAATCCTGGTGATGTGTTTTTTGTT
TTTGTTTTCTGTGAGCTCAACTAAGTTCACGGCAAAATGTCATTGTTCTCCCTCCTACCTGTCTGTAGTGTGT
GGGGTCCTCCCATGGATCATCAAGGTGAAACACTTTGGTATTCTTTGGCAATCAGTGCTCCTGTAAGTCAAATGT
GTGCTTTGTACTGCTGTTGTTGAAATTGATGTTACTGTATATAACTATGGAATTTTGAAAAAAATTTCAAAAAG
AAAAAATATATATAATTTAAACTAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1178/2682
FIGURE 1062

MKVSAALLCLLLMAATFSPQGLAQPDSVSIPITCCFNVINRKIPQRLSYTRITNIQCPKEAVIFKTQRGKEVC
ADPKERWVRDSMKHLDQIFQNLKP

1179/2682
FIGURE 1063

CTTCCTTTCTGGGCTCGGACCTAGGTCGCGGCGACATGGCCAAACGTACCAAGAAAGTCGGGATCGTCGGTAAAT
ACGGGACCCGCTATGGGGCCTCCCTCCGGAAAAATGGTGAAGAAAATTGAAATCAGCCAGCACGCCAAGTACACTT
GCTCTTTCTGTGGCAAACCAAGATGAAGAGACGAGCTGTGGGGATCTGGCACTGTGGTTCCTGCATGAAGACAG
TGGCTGGCGGTGCCTGGACGTACAATACCACTTCCGCTGTCACGGTAAAGTCGCCATCAGAAGACTGAAGGAGT
TGAAAGACCAGTAGACGCTCCTCTACTCTTTGAGACATCACTGGCCTATAATAAATGGGTAAATTTATGTAACAA
AAAAAAAAAAAAAAAAAAAA

1180/2682
FIGURE 1064

MAKRTKKVGIVGKYGTRYGASLRKMKKIEISQHAKYTCSFCGKTKMKRRAVGIWHCGSCMKTVAGGAWTYNTTS
AVTVKSAIRRLKELKDQ

1181/2682
FIGURE 1065

ATGGCCGGGCCTCCGAGGCTCCTGCTGCTGCCCCTGCTTCTGGCGCTGGCTCGCGGCCTGCCTGGGGCCCTGGCT
GCCCCAAGAGGTGCAGCAGTCTCCCCACTGCACGACTGTCCCCGTGGGAGCCTCCGTCAACATCACCTGCTCCACC
AGCGGGGGCCTGCGTGGGATCTACCTGAGGCAGCTCGGGCCACAGCCCCAAGACATCATTTACTACGAGGACGGG
GTGGTGCCCACTACGGACAGACGGTTCCGGGGCCGCATCGACTTCTCAGGGTCCCAGGACAACCTGACTATCACC
ATGCACCGCCTGCAGCTGTCGGACACTGGCACCTACACCTGCCAGGCCATCACGGAGGTCAATGTCTACGGCTCC
GGCACCCCTGGTCCTGGTGACAGAGGAACAGTCCCAAGGATGGCACAGATGCTCGGACGCCCCACCAAGGGCCTCT
GCCCTCCCTGCCCCACCGACAGGCTCCGCCCTCCCTGACCCGCAGACAGCCTCTGCCCTCCCTGACCCGCCAGCA
GCCTCTGCCCTCCCTGCGGCCCTGGCGGTGATCTCCTTCCTCCTCGGGCTGGGCCTGGGGGTGGCGTGTGTGCTG
GCGAGGACACAGATAAAGAACTGTGCTCGTGGCGGGATAAGAATTTCGGCGGCATGTGTGGTGTACGAGGACATG
TCGCACAGCCGCTGCAACACGCTGTCCTCCCCCAACCAGTACCAGTGA

1182/2682
FIGURE 1066

MAGPPRLLLLPLLLALARGLPALAAQEVQQSPHCTTVFVGASVNITCSTSGGLRGIYLRQLGPQPQDIIYYEDG
VVPTTDRRFRGRIDFSGSQDNLTITMHRQLSDTGTYTCQAITEVNVYGSGLVLVTEEQSQGWHRCSDAPPRAS
ALPAPPTGSALPDPQTASALPDPPAASALPAALAVISFLLGLGLGVACVLARTQIKKLCWRDKNSAACVVYEDM
SHSRCNTLSSPNQYQ

[illegible]

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FIGURE 1068

MHHNKQATENAKEEVRRILGLLDAYLKTRTFLVGERVTLADITVVCTLLWLYKQVLEPSFRQAFPNTNRWFLTCI
NQPPQFRAVLGEVKLCEKMAQFDAQKFAETQPKKDTPRKEKGSREEKQKPAERKEEKAAAAPAPEEEMDECEQAL
AAEPKAKDPFAHLPKSTFVLDEFKRKYSNEDTLSVALPYFWEHFDKDGWSLWYSEYRFPEELTQTFMSCNLITGM
FQRLDKLRKNAFASVILFGTNNSSSISGVWVFRGQELAFPLSPDWQVDYESYTWKLDPGSEETQTLVREYFSWE
FHVHGKAFNQGKIFK

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FIGURE 1069A

GGATCCTTGAGGGCACTGGTGCGACTTTACAGGTGAGGTCTTAGCAGATGAAAGCGGCTGGCTGTGGCCCCGCGCCA
GTAGTGCTTTCTGCTCCGCACTCGCCGTGAGCCAGGTGTGCAACCGGATTTGGGGCGAGGGTCGCGCTGGCTACC
TCGCATGCGCAGAGCCGGAAGCCCCGCTGACCGGACTACAGCTCCCAGAAGAGCCTTGTGGAGGCCGACGCGA
AGCCGCTGGCGCCATCTTGAAATCTGATCCTCCATCCCCGAGGCTTTGCGTCTGCGCGGCCGCGCTGCTGCTC
CGGGAGCCAGTCTGTCTAAAAGGGGAGGACGTTGAGGACGCGGCGGCTGGCGGGAGAGACAGCTGGGGAGAGACA
TGGCAGGGTCGGAGCGCGCCCTGCGCCTCTGTCACTCAGCATCCTCTTAGGCGTTTCCACGCCCCGCCCTGCCC
GAGGGGCGGGCTGACGGCTCTGGTACCCGGAGTCGGCGCGCGGGGAGGGGCGCGCCCTGCAGAGTGGGGACC
CCACTGGGCTGTGCCATGCTGACCGGAGACCACCGAGGCGGGAGACAGAGCGCGGCGAAGAGCCATTGAGTGGTC
ACCCAGTAGCCGCCGCCGCCGCCCTCGGGAAGCTTGCCACCCGCTAGGAGGGAAGATGAAGGAGATTTCAGG
ATCTGTGCCCCGAGAGCTGTGTGAAACCAGCGGCGCTGGATCTTCCACACGGCGTCCAAGCTCAATCTCCAGGTT
CTGCTTTCGCACGTCTTGGGCAAGGATGTCCCCGCGATGGCAAAGCCGAGTTCGCTTGCAGCAAGTGTGCTTTC
ATGCTTGATCGAATCTATCGATTTCGACACAGTTATTGCCCGGATTGAAGCGCTTCTATTGAGCGCTTGCAAAAG
CTGCTACTGGAGAAGGATCGCCTCAAGTTCTGCATTGCCAGTATGTATCGGAAGAATAACGATGACTCTGGCGCG
GAGATCAAGGCGGGGAATGGGACGGTTGACATGTCCGTCTTACCCGATGCGAGATACTCTGCACTGCTCCAGGAG
GACTTCGCCTATTACAGGGTTGAGTGTGGGTGGAGAATGAGGATCAGATCCAGGAGCCACACAGCTGCCATGGT
TCAGAAGGCCCTGGAAACCGACCCAGGAGATGCCGTGGTTGTGCCGCTTTCGCGGTTGTGATTCTGACTATGAA
GCCATTTGTAAGGTACCTCGAAAGGTGGCCAGAAGTATCTCCTGCGGCCCTTCTAGCAGGTGGTCGACCAGCATT
TGCATGAAGAACCAGCGTTGTCTGAGGTTGGGCCACCCGACTTAGCAAGCACAAAGGTACCCCCAGATGGAGAA
AGCATGGAGGAAGAGACGCCTGGTTCTCTGTGGAATCTTTGGATGCAAGCGTCCAGGCTAGCCCTCCACAACAG
AAAGATGAGGAGACTGAGAGAAGTGCAAAGGAACCTTGAAAGTGTGACTGTTGTTTCAGATGATCAGGCTCCGCAG
CATGGGTGTAATCACAAGCTGGAATTAGCTCTTAGCATGATTAAAGGTCTTGATTATAAGCCCATCCAGAGCCCC
CGAGGGAGCAGGCTTCCGATTCCAGTGAAATCCAGCCTACCTGGAGCCAAGCCTGGCCCTAGCATGACAGATGGA
GTTAGTTCGGTTTTCTTAACAGGTCTTTGAAACCCCTTTACAAGACACCTGTGAGTTATCCCTTGGAGCTTTCA
GACCTGCAGGAGCTGTGGGATGATCTCTGTGAAGATTATTTGCCGCTCCGGGTCCAGCCCATGACTGAAGAGTTG
CTGAAACAACAAAAGCTGAATTCACATGAGACCACTATAACTCAGCAGTCTGTATCTGATTCCCACTTGGCAGAA
CTCCAGGAAAAATCCAGCAAACAGAGGCCACCAACAAGATTCTTCAAGAGAACTTAATGAAATGAGCTATGAA
CTAAAGTGTGCTCAGGAGTCGTCTCAAAAGCAAGATGGTACAATTGAGAACCTCAAGGAACTCTGAAAAGCAGG
GAACGTGAGACTGAGGAGTTGTACCAGGTAATTGAAGGTCAAATGACACAATGGCAAAGCTTCGAGAAATGCTG
CACCAAAGCCAGCTTGGACAACCTTACAGCTCAGAGGGTACTTCTCCAGCTCAGCAACAGGTAGCTCTGCTTGAT
CTTCAGAGTGCCTTATTCTGCAGCCAACCTGAAATACAGAAGCTCCAGAGGGTGGTACGACAGAAAGAGCGCCAA
CTGGCTGATGCCAAACAATGTGTGCAATTTGTAGAGGCTGCAGCACACGAGAGTGAACAGCAGAAAGAGGCTTCT
TGGAACATAACCAGGAATTGCGAAAAGCCTTGCAGCAGCTACAAGAAGAATTGCAGAATAAGAGCCAACAGCTT
CGTGCCTGGGAGGCTGAAAAATACAATGAGATTGCAACCCAGGAACAAACATCCAGCACCTAAACCATAGTCTG
AGTCACAAGGAGCAGTTGCTTCAGGAATTCGGGAGCTCCTACAGTATCGAGATAACTCAGACAAAACCCCTTGAA
GCAATGAAATGTTGCTTGAGAACTTCGCCAGCGAATACATGATAAAGCTGTTGCTCTGGAGCGGGCTATAGAT
GAAAAATTCTCTGCTCTAGAAGAGAAAGAAAAAGAACTGCGCCAGCTTCGTCTTGCTGTGAGAGAGCGAGATCAT
GACTTAGAGAGACTGCGCGATGTCTCTCCTCCAATGAAGCTACTATGCAAAGTATGGAGAGTCTCCTGAGGGCC
AAAGGCCTGGAAGTGGAACAGTTATCTACTACCTGTCAAACCTCCAGTGGCTGAAAGAAGAAATGGAACCAAA
TTTAGCCGTTGGCAGAAGGAACAAGAGAGTATCATTACAGCAGTTACAGACGTCTCTTCATGATAGGAACAAAGAA
GTGGAGGATCTTAGTGCAACACTGCTCTGCAAACCTTGGACCAGGGCAGAGTGAGATAGCAGAGGAGCTGTGCCAG
CGTCTACAGCGAAAGGAAAGGATGCTGCAGGACCTTCTAAGTGATCGAAATAAACAAGTGCTGGAACATGAAATG
GAGATTCAAGGCCTGCTTCAGTCTGTGAGCACCAGGGAGCAGGAAAGCCAAGCTGCTGCAGAGAAGTTGGTGCAA
GCCTTAATGGAAGAAATTCAGAATTACAGGCCCTGCGCCAATATTTAGGAGGGAGAGACTCCCTGATGTCCCAA
GCACCCATCTCTAACCAACAAGCTGAAGTTACCCCCACTGGCCGCTTGGAAAACAGACTGATCAAGGTTCAATG
CAGATACCTTCCAGAGATGATAGCACTTCATTGACTGCCAAAGAGGATGTCAGCATACCCAGATCCACATTAGGA
GACTTGGACACAGTTGCAGGGCTGGAAAAAGAACTGAGTAATGCCAAAGAGGAACTTGAACATGAGCTAAAAAA
GAAAGAGAAAGTCAGATGGAACCTTCTGCTCTACAGTCCATGATGGCTGTGCAGGAAGAAGAGCTGCAGGTGCAG
GCTGCTGATATGGAGTCTCTGACCAGGAACATACAGATTAAAGAAGATCTCATAAAGGACCTGCAATGCAACTG

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FIGURE 1069B

GTTGATCCTGAAGACATACCAGCTATGGAACGCCTGACCCAGGAAGTCTTACTTCTTCGGGAAAAAGTTGCTTCA
GTAGAATCCCAGGGTCAAGAAATTTTCAGGAAAACCGAAGACAACAGTTGCTGCTGATGCTAGAAGGACTAGTAGAT
GAACGGAGTCGGCTCAATGAGGCCTTACAAGCAGAGAGACAGCTCTATAGCAGTCTGGTGAAGTTCCATGCCCCAT
CCAGAGAGCTCTGAGAGAGACCGAACTCTGCAGGTGGAAC TGAAGGGGCTCAGGTGTTACGCAGTCGGCTAGAA
GAAGTTCTTGGAAGAAGCTTGGAGCGCTTAAACAGGCTGGAGACCCTGGCCGCCATTGGAGGTGCAGCTGCAGGG
GATGACACCGAAGATACAAGCACTGAGTTCAGTGACAGTATTGAGGAGGAGGCTGCACACCATAGTCACCAGCAA
CTATAGCTTCAGAAGCATTTTACTTGCAAGACGATGGACACATTCCCTTGGGCTTTTTGTAACTGAAACGCAC
CACAGAAGACAGGGAGTCATCGAAGGGCTGCTCGGGGAGGTGGCAGGGCGGAGGACCTGCTTGGGAAGAACTCC
AAGAAGATTGGAATGCTTCCAAAGCAAGAATCTTCTCAGTGAAATCTCATTATACAAAGAGAACCTTATGCAAC
CTGACAAACCACTGAGGTCATGGTGACTCAGTGATCAGCAGATGGTACTTCAACAGCAATCCCTGTCAAACCTC
AGAACTTGAGGCTGAAACATTGCTTCCACCCACCATCAGTGAAGATGTAAGTAGCATGTTACAAGAGTGAATAAT
CTGGACTTCAGAGATTAAGTACCAATAGTGATCTCACAAGCACTCACCGGAACTCCTATAATGTCTCCACTTTG
TCCATGCCATTTAGCAATCTCATCTCCTAAATGGACTGTGCCTATGATTCTTAAGGAGAAAGTGAATCATTGGTA
GATATCCTGCACAAGCAGCTGGACTTTCAGTAATAGCTTCTTGGGGCTATTAGGAAAATTAAACAAGAAATGA
GGCTTCTGGGTCTGCCTGTATGTCTTCTGCATAAGACAAAGAAGAGACATCGAATCAACCAATAAGAAGAGCCC
AAATAAGCATCCTCAAATCTTTTGGGATTTGGCACTTGGGGACATGAGTAGTTGTCTGGGATACGTCATATTCTC
AACAGTTTCTTTGTAGTAGTAGGATCACCTTCTTATAATAGGATCACCTTCTTGTGCTATAGCTGTACCCGACC
TTCCCTTCTCCCTTGAGTGCTTGCAAGCTCCACTTTTCTTTTGGCTTGAACAGCTTCTCCTGAGTCCTCCTTA
CCGATGGTTGTGACTTTAATTATATACATCTCTGTCCCTCCAGACAGATCCCTCTGTCTCACTCTCTGATTTCA
TTGAGGATCTTGGGTGAGAGAGAGGGACCTGCAGGATGAACAAATGTCTACTCTAAGACAGCTAGATTGGGAGGT
TGGCTGGTCACTGATGGTTATAATGACTGTGGGACAGGATTAACCTCAGAATAAATGAACAGGAGACACAGATAT
GAAGAAAGTTTCTGATTGATATGGTCTGAAGTACTCCTGGTATTGCAAGTCATTTGCTCTAATTCTCAATTGTAG
GCAAACCTGATTTGTAAATTTGCTTCTTCAGCCTTCTTTTCTGTAGCCTAGCATGGAGAATCTGACCAGACCCCAT
TTTGAGAAGGTGAGCCTACACTGGAATGAACTTTTTACATTAGGGCATTGTATTTCCTCACAATACTTGCCAC
ATTACTTGGCATAGGAGAGATGCTTAGTGTAATTATAAGTTAACAAGCCTTTGGATCAGGGCTTGACTCATGATA
GACAAAGTATATGCCTGCTGGATGGAAGAATCTCTTGGGCGAGCACCATTTTTCTTTCCATCACCTTTCTTGAA
AATATATCTTCAGCTTTGGGTAGGAGGAATCTTGGTGTATGAAATCATTGCAAATTTACTTCATCTTTTCTGGAG
TTTGAAGTTGTGACTCTCCTGCTACCAATTAATAAAGCTTACTTTGCCAT

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FIGURE 1070

MKEICRICARELCGNQRRWIFHTASKLNLQVLLSHVLGKDVPRDGKAEFACSKCAFMLDRIYRFDTVIARIEALS
IERLQKLLLEKDRLKFCIASMYRKNDDSGAEIKAGNGTVDM SVLPDARYSALLQEDFAYSGFECWVENEDQIQE
PHSCHGSEGPGRPRRCRGCAALRVADSDYEAICKVPRKVARISICGPSSRWSTSICTEEPALSEVGPPDLASTK
VPPDGESMEEETPGSSVESLDASVQASPPQKDEETERSAKELGKDCCSDDQAPQHGCNHNKLELALSMIKGLDY
KPIQSPRGSRLPIPVKSSLP GAKPGPSMTDGVSSGFLNRS LKPLYKTPVSYPLELSD LQELWDDLCE DYLP LRVQ
PMTEELLKQQKLN SHETTITQQSVSDSHLAE LQEKIQQTEATNKILQEKLNEMSYELKCAQESSQKQDGTIQNLK
ETLKSRETEELYQVIEGQNDTMAKLREMLHQS QLGQLHSSEGTSPAQQQVALLDLQ SALFCSQLEIQKLQ RVV
RQKERQLADAKQCVQFVEAAAHESEQQKEASWKHNQELRKALQQLQEELQNK SQQLRAWAEKYNEIRTQEQNIQ
HLNHSLSHKEQLLQEFRELLQYRDNSDKTLEANEMLLEKLRQRIHDKAVALERAID EKFSALEEKEKELRQLRLA
VREDHDLERLRDVLS SNEATMQSMESLLRAKGLEVEQLSTTCQNLQWLKEEMETKFSRWQKEQESI IQQLQTS L
HDRNKEVEDLSATLLCKLGP GQSEIAEELCQRLQRKERMLQDLLSDRNKQVLEHEMEIQGLLQSVSTREQESQAA
AEKLVQALMERNSELQALRQYLGG RDSLMSQAPISNQQAEVTP TGR LGKQTDQGS MQIPSRDDSTSLTAKEDVSI
PRSTLGDLDTVAGLEKELSNAKEEELMAKKERESQMELSALQSMMAVQEEELQVQAADMESLTRNIQIKEDLIK
DLQMQLVDPEDIPAMERLTQEVLLLREKVASVESQGEISGNRRQQLLLMLEGLVDERSRLNEALQAERQLYSSL
VKFHAHPESSERDRTLQVELEGAQVLRSLRLEEVLGRSLERLNRLET LAAIGGAAAGDDTETDSTEF TDSIEEEAA
HSHQQL

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FIGURE 1071

GTAGTGCCGCCGGGACTCTTGGCGGGTGAAGGTGTGTGTCAGCTTTTGCCTCACTCGAGCCCTGGGCGCTGCTTG
CTAAAGAGCCGAGCAGCGGGTCTGTCAATCATGTCGCGTTACGGGCGGTACGGAGGAGAAACCAAGGTGTATGTT
GGTAACCTGGGAAGTGGCGCTGGCAAAGGAGAGTTAGAAAGGGCTTTCAGTTATTATGGTCCTTTAAGAACTGTA
TGGATTGCGAGAAATCCTCCAGGATTTGCCCTTGTGGAATTCGAAGATCCTAGAGATGCAGAAGATGCAGTACGA
GGACTGGATGGAAAGGTGATTTGTGGCTCCCGAGTGAGGGTTGAACTATCGACAGGCATGCCTCGGAGATCACGT
TTTGATAGACCACCTGCCCGACGTCCCTTTGATCCAAATGATAGATGCTATGAGTGTGGCGAAAAGGGACATTAT
GCTTATGATTGTCAATCGTTACAGCCGGCGAAGAAGAAGCAGGTACGGTCTAGATCACATTCTCGATCCAGAGGA
AGGCGATACTCTCGCTCACGCAGCAGGAGCAGGGGACGAAGGTCAAGGTCAGCATCTCCTCGACGATCAAGATCT
ATCTCTCTTCGTAGATCAAGATCAGCTTCACTCAGAAGATCTAGGTCTGTTCTATAAAAAGGATCGAGGTATTTT
CAATCCCCGTCGAGGTCAAGATCAAGATCCAGGTCTATTTACGACCAAGAAGCAGCCGATCAAAGTCCAGATCT
CCATCTCCAAAAGAAGTCGTTCCCCATCAGGAAGTCTCGCAGAAGTGCAAGTCCTGAAAAGATGGACTGAAGC
TCTCAAGTTCACCTTTAGGGAAAAGTTATTTTGTGTTACATTATTATAAGGGATTTGTGATGCTGTAAAGTGTA
ACCTAGGAAAGATAATTCAACCATCTAATCAAAATGGATCTGGATTACTATGTAAATTCACAGCAGTAAGGATAA
TATAAATTTTGTGTAATGTATGAACATCATATGGTCTGAAAATGTGGGTTTTTATTTGGCACATTTAAATAACAT
GTTTCTAACTAGATTTTGTATTGTGTTCAATATTAACACTTCTTAATTTGATATATTTGAGAGTCAGACATTAT
AATTGTTAATCCTTATTCATACATACCTACATTGAGAATTGAAAGGTGTTGGTTAAGTCTTGAACATCACTATTC
TATGCATAAACTTGGCCAGGATCTTAAGGGACTTTGAAAATCCATCTTACCCTTGTAGCTCTGGGTAAGATGA
CCTGAGTCCCTTATGATACAGCCTGAATGCATCATGACAGATCCTTAGTTAGCTAATCCGTTTGAAGTTGGTGTT
AGTAGGTATTGTATGATCAGTGGTGAAGCAAGTAGGACCACTGATGTGTCTAAATGAGCATGACAGGAACATAAC
GAACTGATTAAATGTATGAGAAATAGAACTGATTTCTGGATGATCTTTATACTAATTGCAGCTTTCAGGCTAC
TAGGTGGCATAGTGTTAATTAGGACTCCCCAAGATATGGGGAGTTCTACTCTCAATGGTCTTGTTTCTTTGCTTT
CTACATTAGTTAACCAGTTTTATACCAAAAAATGCATGTTTGAGGAATTGTCTGAAATTGGGACAAAACACCTTC
ATGTAAACCAGCTTTGCAAAATTTTCCAGCCAGATACTCTTCATCTATTCAAATGGATTGTCTTATTCTGAGCA
AAGACCTGTTGTTAATCTTCAAGCTAGGTTTTGCAGTTCCCAACCACAACATTCTTCTATTTTGCCAGGCTGGTG
CAAAGTAATTAAAGATGTCAATCAGAAATGTCAATGAGACTAAAGTGGTTTTGTAAATCTCAGCTATATTTAGCA
ACACTCCATGTAGCTAATATTTTTTGGTAGCATCTGGTAGACCTTAGAATGTTACATAGCCAGTAGGTTCTTTAT
TCAAATTTTAAGTATCTTAAGAATAGTAGGGCAGTAACAGTTACTTTTGAGAGTTTTCTGGTCAAGCTTTTACCA
GGCATTCTCTAGCCTTGGTACAAAAAAGAAACCTGCTGGTTGCGCAGATACCTAGGCTTGTCCATTTTATG
CATTTAGCAAAAGTCATTGGAGACTATTGCAACTTGGGAATACTGGTCTGCATCAAGTTTAAATTCGGTAGTTTGA
CCGCTAGTATGTTGGAAGTTATTTGGATTGTTTTTGGAAATTTGACTGGCTGAATTATGGTTGGTATAAAGTTAT
GTGTATAACTGGCAGGCTTATTTATCTGTTGCACTTGGTTAGCTTTAATTGTTCTGTATTATTTAAAGATAAGTT
TACTCAACAATAA

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FIGURE 1072

MSRYGRYGGETKVYVGNLGTGAGKGELERAFSYYGPLRTVWIARNPPGFAFVEFEDPRDAEDAVRGLDGKVICGS
RVRVELSTGMPRRSRFDRPPARRPFDPNDRCYECGEKGHYAYDCHRYSRRRRSRSHSRSGRRYSRSRSRS
RGRRSRSASPRRSRSISLRRRSASLRRSRSGSIKGSRYFQSPSRSRSRSRISRPSSRSKSRSPSPKRSRSPS
GSPRRSASPERMD

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FIGURE 1073A

CAAGCCAATTATGGCTCCCTTTCCCAATGGTAGTTTGTGAATGGCTTTAATTCGCCAGGATCTTATAAAACAAAT
GCTGCTGCTATGAATATGGGTCGACCATTCCAAAAAATCGTGTGAAGCCTCAGTTTAGGTCATCTGGTGGTTCA
GAACACTCAACAGAGGGGCTCTGTATCCTTGGGGGATGGACAGTTGAACAGATATAGTTCAAGAACTTTCCAGCT
GAACGGCATAACCCACAGTAAGTGGGCATCAGGAGCAAACCTTACCTTCAGAAGGAGACTTCCACTTTGCAGGTG
AGAAATGGGGACTATGGTAGGGGCAGGAGAACTCTCTTCAGAGGTGCAAGACGACGAGAAGATGACAGGATC
AGACCTCATCCTTCAACAGCTGAATCAAAGGCTCCAACACCAAAGTTTGACTTATTAGCCTCAAATTTTCCA
CTTACCTGGAAAGTTTCATCAAGAATGCCAGGTGAACCTCGTTTGGAGAATAGGATGTCTGATGTTGTTAAAGGTG
TACAAAGAAAAGGATAATGAAGAGTTGACAATTAGTTGCCAGTGCCCTGCAGATGAGCAGACAGAATGCACTT
GCCAGCAACTCAATATGAGTACCAGTTCTCCATGTGCTGCTGAGCTTACTGCATTAAGCACAACCTCAGCAAG
AGGATCTAATAGAAGATTCTCTGTTTCAAGAGGATGGTCTCAATCAGACAACCTATACCAGTTTCTCCTCCAA
TACAAAGCCATCGAGGGCAAGTACTGCTTACCATGTAATAATAACATAAATGCAGCTACAGCTGTGGCTC
AGGAACCCCGAAAGTTAAGTTATGCTGAAGTGTGCCAGAAGCCCCCTAAAGAGCCATCTTCAGTTCTTGTGC
TACTACGGGAACCTTCGCTCCAATGTGGTGTCTCCACCAAAAATGAAGACAATGGAGCTCCTGAGAACCTCG
GAGAAACCACATGAGAAGCCAGAAGCAAGGGCTAGTAAGGATTATTCTGGCTTCCGAGGCAATATAATCCCCA
GCGGAGCAGCAGGAAAAATCAGGGAACAGAGACGCCAGTTTAGCCATAGGGCTATACCTCAGGGAGTGACTCGAC
GTAATGGCAAAGAGCAATATGTGCCACCAGATCACCAAAGTAAAAACAACAAAACCTATTCAAAAACCTCACTC
TCTTCCCATTAACCTTGAAGTGTGGCTATATTGAAGTGTGGAGGGGAGGGGGTAGCCAGGAAGGAAACAAGA
GAAAGTACGTCCATTTTCAATTATGGATTTTGGAGTTGTGAGTGATAGGATCCCAAAATTCATCTCTAATGTGGTTT
TTAAATGCTGGAGGATTCCAATCAATATAAATATATATATATATACACACATATATAAAAGTATAATTTT
TCTATTTTTTGTTTTTGGTTTTAATTTGCAGAGATTTGCTGCCAGGAATCAATTTTGGGGTTCAGATTTAGCTTG
GAAGAAAAAAGAAACATACATCCTTCAGTATAGGAGATGAGGGAATGAGAGAAAATATTTTTGAAGAAGCAT
TTCTGTAAATTAGAAATTACTTTTTTAAATCTATTTAAAGTTTGGCTTGAAGAATGCCATCTCTGACTATATGG
CCTTGATTTGCAAAGCAGATCAGTGGCTGGGGTGCCTGTTGTGGGTGTGAGTGTGTACAAGAGCGATTGAAGCCA
AATCTGTTGTCAATGTTAGTAAATGATTTGAAAACCTGAATGTAATACTTGAGTAGATTTTTTTTTCTAGTTTGAA
TTAGTCTGTCTTTTTGACCTTACTAATATTTTCAATTTAAACAAGTTGTAAACTCTGATTGTACTTAGAGATGTGA
CTACCAATCAGTTTGATACTCAAGGAAAGGGGGTTATTCAAGAAATGAAAATTTTCTCTGGACCTCAGTGCAT
CGGTCAAATGGATTTTCAAGAGGTTTAAACTTCCCTGTGATTCCCCCTGAATACCCCCAAAATGAGAAACAAAATTT
TTTTCTTACTCCATTTGTTACTCTCTGTTCTTTGACTGCCACCCACAGAAAAGCAAAATAACCAACTACCTAC
TCAATTGTGTGTTTGTAAATGCTTTGAGCAGTCTAGTCAAATCATATAAATTGTTCTAAATTTTCAAGATTGAACA
TTGAAGTATTAACCTCTTCTGTTTACACATTTAGAATTTTAGCTCCCAAGATGGTAGGGCAGACTGACCGTACAGT
AATTTATTTGTGCTTAGTGTAAAGATTAAGCATAGTAAGTACTGACTCTTAAGTGTAAATAATGTAGAAGTAAAA
AATTTTTTTTTAAAGGCTTAATTTGGGAGGGGGGACTTATTTCTGTTTACAGTGTATTACCTTCCTTCCCTCCTCT
TCTCCCCCACACCAACAAAATACAGTTTGAATTCAGTGAACAGTACCAGCAAGTCATGAGATTTTTTAGTA
AAGATGAGAAAGATGGTTGAAGAAAATTAGTGCATAATTTCTCAGTGAATAAAGTTGTAGCTCTCATATACTAAA
TAGACAAGTTTACATGCTGTTATTTAGAAAATGACTAAAATATTAATAAACCGTGTGTGTTAATCTGTTTTAAGT
CATACCATGTTTCAAGAGTTCTATGTAAGGTGGGTTTTATTTTTCTTTTAAAGGATAGTTTGTAAATAGTAAGAACTG
TCCCATATGTTAGTAAATTACATATGTACAAATTGAACTGTAAATTGTGAACACTGGAAAGCACCATTGTGACA
TAGAGTAAACATCTTAGTAATATATTAAAGTGAATGTAAATGGTGGTTAAATTACATTACTGTGAAATTCATCT
TCCAACCTCTAAGTTAAGCTTTGGAGATACATGTTAGTGGTTAACTGTTAAGAGCTTTGAAAACACTGCACATATC
TGTACAAGCCAGAATTACTATTTCTTTGACTTATTATTAGCTTGGCAGTTGCTTTTGATTGATTGTTTTATGAC
ATGGTATACTACTATATTTACTCAGTTTGAACCTATTCAATTTCTACACACTATTTTTAAAAATTGCCTACTAGGT
GAAACATAACAATAAAACTACCTGTGCTGAAATTTGGGGGAAGTTTAGGTCCTTTAAAAAACATATTAATCATT
GACTACATCTATGATAAAAGTGCTTATTTTGGTTTACTAAGATAATGCAGTTGGTGGAAATGATAAACGTTTTAA
GTGTTAACATCCTTTGAATGCGTTGGATTTTCAAGAGAATAAACATTTTGTAAAAATCACTTGGTAAGGATTATAAA
CTTAATTACTGCACCTTAAATGAAACATTACTTTTTTTAAACAATGTGTACAAATGTAGGTCTGTATTACTTGT
ATGCTTGTGTGACTTACTGTTAGTCCAGCTCTAAAAATTTAAAGGTTGTAATTGAAATACAAGAAAAGAGCCTTC
TTTTAGAAGAAAGCAAGTATATTTTGTCTTTTACTTCAAATGTTATTTAAAGTAGAAATTTAATTTGTAGATATA
ACCTTTAAAAATTTCTCATTAAAGACAATGTTTTTAATTTAATTTGCCTCATTACATCTAATAGTTCCCATTTGA

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FIGURE 1073B

TGGCATGTATAGGGAAGAGTGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAATATTTATATATATTCACAGTATG
TATTTAGCATTTATTTTATTACAGCAGATTTAAAGTTTGTATCTAAATAATGCCTATGAGTTGTGTGAAGCTCTT
GGCTTTTTTCCAACGTTACTTTGTAACATAATGAGGGTGGATGTTTCATTGTAGTTTATTTATTTGGTCTTTAGAT
GGAGGAATTTAAAAAATCAAATTTTTCTCTTCACCTTTATGACTTGACATTTCTTGATCTGTTGGAGGCTAAAA
GTAGGTATAAATGATATTGAATGTTGGGTATAGTGATACTCTGCCATAGTTCTTACTGCATGAAGAGAACAAGAG
TCACACAAGTTCACCACTTTGCACCTCATAGAGAAGGTACATAGAGACATTGCAAAACCTGCTCTCCATTGCTAT
CCTGATAATTAAGGTTTTCATAATACCTAGGGCCTGTCTCTGAGTAATTTTAATTTTGCCAAATACACTGACATT
TAAAATAGTGATCCATCTAAATTTTTTTCAGCTGGGTTTTGAGGAATATAAGAGCTTTCAATGATAAAGGTTTGT
TGTAAGTTGTCTTATGTGCTGAATTTGCAGATGATCAGATGCTGTGCAGAATTCTGATTTATTTTGTTCCTAAA
ATTAAGATAGCTTGAATATTATTTACATTCCTTTTTCTTTTTTAAATAAACAGGTTTGCTTTGGAAAGGCTTAA
TGATGGAATGTTAGCATCTTCACTAGGGTAAAGAAGAACAAAAAGAATGTTGCTGGAACGTAAAATAGTATTTAA
AAGTTAATGAACACTTCTCTAGTTTTCTTAGTTATGGCCTTAATAATTAGTCTCTTGGCTTAAATGTCCACTGGT
TTTACTTTGACACAGTTGAACAACACTGGGGTTAAGTCTCTGGTATTTAGGCTGGCAATATATATATTAACCATA
TTTTAAAAGTACCAATTTTGTTTTTACAGAAAAGATAAACTCAAAAGAGAACAGTGTATTCCTTCTGAGGGGCT
TTTATAAATTATTAACATAATATATGATGGATTTTTTCTTAATTTTTTATATTTCTTACAATTTTGGTGGCCA
TTAATTTAACTTTAGGCTTTTGGGCATATGCTAGTCTGAGCTTCCGAAAAGATACATATATGTTTCCCTTTTCAT
TAGCTGAATGAGGATATTTAAGAAGTTGAAAGAGAATTTATTTTCAAGTTGTGAGTAAATCCTCCTTTGAAATT
CACCTGATTATTAGATAACTTAAAGTTTATTTTTTAAAAGCTGACAACTTTTTATGAATCTTCGAGTTGACAGTTC
CTAAAAGCGTAACTCAGATATTAATGGGCTGTGTATTAAATGGTTTTATTTTCAGTTTTGCAGCACAGAACTG
TTGAAATATCCATATCAACTTGATTTTTTTAACCTAATTCAGGTGTCCTTTGCATCTCTTAAATGTTGGGGGTGG
GGGTCAGAGCCAGTTATCCGGCTTCTGTTTTGTGCGATTGCTTAGATTGTTTCTGTTGTCAAACTGTTACCCCC
AAAATTGGTGTGACACATGCTCATGCATAAAATGTTAAAATGAGTACATCCTTGTATTTGTATTTGTTTTCAACA
TCGCCAAGGTGCTATGGGAAATTAACAAAATTAGAAAAAAAATAAAATTATTAAGCAGAAAAA

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FIGURE 1074

MNMGRPFQKNRVKPQFRSSGGSEHSTEGSVSLGDGQLNRYSSRNFFAERHNPTVTGHQEQTLYLOKETSTLQVEQN
GDYGRGRRTLFRGRRRREDDRISRPHPSTAESKAPTPKFDLLASNFPPLPGSSSRMPGELVWRIGCLMLLKVSTK
KRIMKSTISCPVPADEQTECTSAQQLNMSTSSPCAAELTALSTTQQEKDLIEDSSVQKDGLNQTTIPVSPPSTTK
PSRASTASPCNNNINAATAVALQEPRKLSYAEVCQKPPKEPSSVLVQPLRELRSNVVSPTKNEDNGAPENSVEKP
HEKPEARASKDYSGFRGNIIPRGAAGKIREQRRQFSHRAIPQGVTRRNGKEQYVPPRSPK

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FIGURE 1075

CGAGGATGTGCGTGGGGGCTCGGCGGCTGGGCCGCGGGCCGTGTGCGGCTCTGCTCCTCCTGGGCCTGGGGCTGA
GCACCGTGACGGGGCTCCACTGTGTGCGGGACACCTACCCAGCAACGACCGGTGCTGCCACGAGTGCAGGCCAG
GCAACGGGATGGTGAGCCGCTGCAGCCGCTCCCAGAACACGGGTGTGCCGTCCGTGCGGGCCGGGCTTCTACAACG
ACGTGGTCAGCTCCAAGCCGTGCAAGCCCTGCACGTGGTGTAACCTCAGAAGTGGGAGTGAGCGGAAGCAGCTGT
GCACGGCCACACAGGACACAGTCTGCCGCTGCCGGGCGGGCAGCCAGCCCTGGACAGCTACAAGCCTGGAGTTG
ACTGTGCCCCCTGCCCTCCAGGGCACTTCTCCCCAGGCGACAACCAGGCCTGCAAGCCCTGGACCAACTGCACCT
TGGCTGGGAAGCACACCCTGCAGCCGGCCAGCAATAGCTCGGACGCAATCTGTGAGGACAGGGACCCCCAGCCA
CGCAGCCCCAGGAAACCCAGGGCCCCCGGCCAGGCCCATCACTGTCCAGCCCACTGAAGCCTGGCCCAGAACCT
CACAGGGACCCTCCACCCGGCCCGTGGAGGTCCCCGGGGGCCGTGCGGTTGCCGCCATCCTGGGCCTGGGCCTGG
TGCTGGGGCTGTGCGGGCCCCCTGGCCATCCTGCTGGCCCTGTACCTGCTCCGGAGGGACCAGAGGCTGCCCCCG
ATGCCACAAGCCCCCTGGGGGAGGCAGTTTCCGGACCCCCATCCAAGAGGAGCAGGCCGACGCCCCACTCCACCC
TGGCCAAGATCTGACCTGGGCCCCACCAAGGTGGACGCTGGGGCCCCGCCAGGCTGGAGCCCCGAGGGGTCTGCTGGG
CGGGGCCCAGCGTCCACCTTGGTGGGGCCAGGTCAGATCTTGGCCAGGTTGGAGTGGGGCCCAGCATAACATACA
GTGCCGCCACCAGCCCCCTGAGCCCTGTTTCCCCCCTACTCTTCCAAATTTGTGGAGACAGGGCTCAGGGGGC
TGGTGGCGGCACTGTATGTTATGCTGGGCATGACGGCCATGACTTCGGCTATCTTCTGTTTTAGGTCCTTGATTT
CCTGATCTTTCTGAAGGATTTGTCCTTGGGCAATCTCGAGCTGCCGCTTTCATCGCCAGTGCGGAGAACAGGT
CCAGCTTGATTCTCGTCTCTGCACTTAAGCTGTTCTCCAGGTGCGTGTGATTGTCAAAGAAAGCCTTCTGGAT
GCTGTTAAGATGTACCCTTCAGGTGAACCTGGTATCAGACCCACAGTACTTGCTGTTTGAGAAAAAATAAAACA
AAAAGGTCAAAAAAAAAAAAAA

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FIGURE 1076

MCVGARRLG RGPCAALLLLGLGLSTVTGLHCVGDTYPSNDRCCHECRPGNGMVSRCRSQNTVCRPCGPGFYNDV
VSSKPCKPCTWCNLRSGSERKQLCTATQDTVCRCRAGTQPLDSYKPGVDCAPCPPGHFSPGDNQACKPWTNCTLA
GKHTLQPASNSSDAICEDRDPPATQPQETQGPPARF ITVQPTTEAWPRTSQGPSTRPVEVPGGRAVAAILGLGLVL
GLLGPLAILLALYLLRRDQRLPPDAHKPPGGGSFRTPIQEEQADAHSTLAKI

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FIGURE 1077

CACGCAGCAGGATGGCAAGGGCTCCGCTTGGGGTCTGCTCCTCTTGGGGCTTCTCGGCAGGGGTGTGGGGAAGA
ACGAGGAACTGCGTCTTTATCACCATCTCTTCAACAACATATGACCCAGGAAGCCGGCCAGTGCGGGAGCCTGAGG
ATACTGTCACCATCAGCCTCAAGGTCAACCTGACGAATCTCATCTCACTGAATGAAAAAGAGGAGACTCTCACCA
CTAGCGTCTGGATTGGAATCGATTGGCAGGATTACCGACTCAACTACAGCAAGGACGACTTTGGGGGTATAGAAA
CCCTGCGAGTCCCTTCAGAACTCGTGTGGCTGCCAGAGATTGTGCTGGAAAACAATATTGATGGCCAGTTTCGGAG
TGGCCTACGACGCCAACGTGCTCGTCTACGAGGGCGGCTCCGTGACGTGGCTGCCTCCGGCCATCTACCGCAGCG
TCTGCGCAGTGGAGGTCACTTACTTCCCCCTTCGATTGGCAGAAGTGTTCGCTTATTTTCCGCTCTCAGACGTACA
ATGCCGAAGAGGTGGAGTTCACTTTTGCCGTAGACAACGACGGCAAGACCATCAACAAGATCGACATCGACACAG
AGGCCTATACTGAGAACGGCGAGTGGGCCATCGACTTCTGCCCGGGGGTGATCCGCCGCCACCACGGTGGCGCCA
CCGACGGCCCCAGGGGAGACTGACGTCTACTCGCTCATCATCCGCCGGAAGCCGCTCTTCTACGTCATTAACA
TCATCGTGCCCTGTGTGCTCATCTCGGGCCTGGTGTGCTCGCCTACTTCTGCCGGCGCAGGCCGGCGGCCAGA
AATGCACGGTCTCCATCAACGTCTGCTCGCCAGACCGTCTTCTTGTTCCTCATTGCCCAGAAAATCCCAGAGA
CTTCTCTGAGCGTGCCGCTCCTGGGCAGGTTCCCTTATTTTCGTATGGTGGTGCACCAGCTCATTGTCTGAATT
GCGTCATCGTGCTCAACGTGTCCAGCGGACGCCACCACCCACGCCATGTCCCCGCGGCTGCGCCACGTTCTCC
TGGAGCTGCTGCCGCGCTCCTGGGCTCCCCGCGCGCCCGAGGCCCGGGCCGCTCGCCCCAAGGCGGG
CGTCTCGGTGGGCTTATTGCTCCGCGCGGAGGAGCTGATACTGAAAAAGCCACGGAGCGAGCTCGTGTGTTGAGG
GGCAGAGGCACCGGCAGGGGACCTGGACGGCTGCCTTCTGCCAGAGCCTGGGCGCGCGCCCCGAGGTCCGCT
GCTGTGTGGATGCCGTGAACCTCGTGGCCGAGAGCACGAGAGATCAGGAGGCCACCGCGAGGAAGTGTCCGACT
GGGTGCGCATGGGGAATGCCCTTGACAACATCTGCTTCTGGGCCGCTCTGGTGCTCTTCAGCGTGGGCTCCAGCC
TCATCTTCTCGGGGCTACTTCAACCGAGTGCCTGATCTCCCCCTACGCGCCGTGTATCCAGCCTTAGCTCGCAC
CGACTTCAATTTCCCACCCATCTCCAGTAGGAAATTGATTTTGAAAAAGTAGGCTGCCGCCACCACGGCATTATG
ATCCCTTCCCCCTGCTGATCAATCTGCAGTTTGTGAACTTCACAAGAATGGTGTGTGCCCGTTCCCTGGCGTGTG
TAGGCCTGGCCGCAGTCCAGGGGTACGAGGAGGAAAGGGTTCACATAGGCTCTCAGGTGCCAGTCTTCCAGAAA
GCAAGGACTGCCCTTCATTACGCTTGCTGACCTCCCAGCCTTCTAAGGCTCAGCCCCACGGGACTCTGGTGGC
TGCCAGCTTGTGAGCTATCTATCTATATTCAATTCATAGCCAAACAGGAGACCCCTTTCAGGACTTGACACAG
GGAGGCTGTAGCCAGGAAACCCTCTTCTTCCCTGGTCTGGCTCTGCTGGAGCGGGTGGGAACCAACACCTTCAG
TGCTGGTGGCCCTCAGGCCCACAGGTTTAAGGCTGAGGCTGCCCTGACCCTTCCACAGTCATTTCTTCTAGGTTT
TCTTGGCCCAGCACTGCCCATCCACCCCATGAGGCTCACTCATTGCAGATCCCAGCCCACCCTGCCCTTCTT
CCCCACCCTGGAGGCTCTCTCTGCCTAGTCTACAGTACTGACAGAAAGCAAGGACATGCGGCCTGCATGGTGGGA
GCTGGTTGAATTGTCTTTATTAACAAACAGGATATCCAAGGCCACTACATTGAGGAGGGGGGAGGGGGGAGGGAG
GAGAAGGGTTACTTGTCTGCTCACACTATATACAGATGCAAGCAAGGGGCGTGGAGAGTGAGGGCTCCCTGCTCCC
TCCCTCCACCGGGGAAGGGCATGGGCTAGAAGAGGAGAGGGGGGTGGGAATGGGGGAATGTTTTGGCTGCGGG
GTCCCCCTCCATTCCCTGGAGTTTGGGGGAAGGGGAATCATTAAAGTGCTTTTACA

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FIGURE 1078

MARAPLGVLLLLLGLLGRGVGKNEELRLYHHLFNNYDPGSRPVREPEDTVTISLKVTLTNLISLNEKEETLTTSVW
IGIDWQDYRLNYSKDDFGGIETLRVPSELVWLPEIVLENNIDQFGVAYDANVLVYEGGSVTWLPPAIYRSVCAV
EVTYFPFDWQNCSLIFRSQTYNAEEVEFTFAVDNDGKTINKIDIDTEAYTENGEWAIDFCPGVIRRHGGATDGP
GETDVIYSIIIRRKPLFYVINIIVPCVLISGLVLLAYFLPAQAGGQKCTVSINVLLAQTVFLFLIAQKIPETSLS
GRFLIFVMVATLIVMNCVIVLNVSQRTPTTHAMSPRLRHVLELLPRLLGSPPPPEAPRAASPPRRASSV
BAEELILKKPRSELVFEGQRHRQGTWTA AFCQSLGAAPEVRCCVDVNFVAESTRDQEATGEEVSDWVRM
ANDNICFWAALVLF SVGSSLIFLGAYFNRVPDLPYAPCIQP

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FIGURE 1079

GGCACGAGGTTCCGAGTTGCGATGCTGTACTTCTCTTTGTTTTGGGCGGCTCGGCCTCTGCAGAGATGTGGGCAG
CTGGTCAGGATGGCCATTTCGGGCTCAGCACAGCAACGCAGCCCAGACTCAGACTGGGGAAGCAAACAGGGGCTGG
ACAGGCCAGGAGAGCCTGTGCGACAGTGATCCTGAGATGTGGGAGTTGCTGCAGAGGGAGAAGGACAGGCAGTGT
CGTGGCCTGGAGCTCATTGCCTCAGAGAACTTCTGCAGCCGAGCTGCGCTGGAGGCCCTGGGGTCTGTCTGAAC
AACAAGTACTCGGAGGGTTATCCTGGCAAGAGATACTATGGGGGAGCAGAGGTGGTGGATGAAATTGAGCTGCTG
TGCCAGCGCCGGGCCTTGGAAAGCCTTTGACCTGGATCCTGCACAGTGGGGAGTCAATGTCCAGCCCTACTCCGGG
TCCCCAGCCAACCTGGCCGTCTACACAGCCCTTCTGCAACCTCAGACCCGATCATGGGGCTGGACCTGCCCGAT
GGGGGCCATCTCACCACGGCTACATGTCTGACGTCAAGCGGATATCAGCCACGTCCATCTTCTTCGAGTCTATG
CCCTATAAGCTCAACCCCAAACTGGCCTCATTGACTACAACCAGCTGGCACTGACTGCTCGACTTTTCCGGCCA
CGGCTCATCATAGCTGGCACCAGCGCCTATGCTCGCCTCATTGACTACGCCCCGATGAGAGAGGTGTGTGATGAA
GTCAAAGCACACCTGCTGGCAGACATGGCCACATCAGTGGCCTGGTGGCTGCCAAGGTGATTCCCTCGCCTTTC
AAGCACGCGGACATCGTCACCACCTACTCACAAGACTCTTCGAGGGGCCAGGTCAGGGCTCATCTTCTACCGG
AAAGGGGTGAAGGCTGTGGACCCCAAGACTGGCCGGGAGATCCCTTACACATTGAGGACCGAATCAACTTTGCC
GTGTTCCCATCCCTGCAGGGGGGCCCCACAATCATGCCATTGCTGCAGTAGCTGTGGCCCTAAAGCAGGCCTGC
ACCCCATGTTCCGGGAGTACTCCCTGCAGGTTCTGAAGAATGCTCGGGCCATGGCAGATGCCCTGCTAGAGCGA
GGCTACTCACTGGTATCAGGTGGTACTGACAACCACCTGGTGTGGTGGACCTGCGGCCCAAGGGCCTGGATGGA
GCTCGGGCTGAGCGGGTGTAGAGCTTGTATCCATCACTGCCAACAAGAACACCTGTCTGGAGACCGAAGTGCC
ATCACACCGGGCGGCCCTGCGGCTTGGGGCCCCAGCCTTAACCTTCTCGACAGTTCCTGTAGGATGACTTCCGGAGA
GTTGTGGACTTTATAGATGAAGGGGTCAACATTGGCTTAGAGGTGAAGAGCAAGACTGCCAAGCTCCAGGATTTT
AAATCCTTCTGTCTTAAGGACTCAGAAACAAGTCAGCGTCTGGCCAACCTCAGGCAACGGGTGGAGCAGTTTGGC
AGGGCCTTCCCCATGCCTGGTTTTGATGAGCATTGAAGGCACCTGGGAAATGAGGCCACAGACTCAAAGTTACT
CTCCTTCCCCCTACCTGGGCCAGTGAAATAGAAAGCCTTTCTATTTTTTGGTGCAGGGAGGGAAGACCTCTCACTT
AGGGCAAGAGCCAGGTATAGTCTCCCTTCCAGAATTTGTAAGTGAAGATCTTTCTTTTTCTTTTTTTGGT
AACAAGACTTAGAAGGAGGGGCCAGGCACTTTCTGTTTGAACCCCTGTCATGATCAGTGTGAGAGACGCGTCC
TCTTTCTTGGGGAAGTTGAGGAGTGCCCTTTCAGAGCCAGTAGCAGGCAGGGGTGGGTAGGCACCCTCCTTCTGT
TTTTATCTAATAAAATGCTAACCTGCAAAAAAAAAAAAAAAAAAAAAAAAAATCAGACTAGGTGGACTCTGCCTG
CCTACCTGGTCTGGGAAGATGTTCTACCATATCTCCCTAGAGCACGAAATCCTGCTGCACCCGCGCTACTTCGGC
CCCAACTTGCTCAACACGGTGAAGCAGAAGCTCTTACCCGAGGTGGAGGGGACCTGCACAGGGAAGTGAGTGTG
AGCTACCCGCACCGCCAGATCGTTTCGATGCGCACAGGGGCGCTATACCTGCAACCCCTCCCCAACTCCTACTCG
TCCTGCCACCCACTCTGGGGACCCCTCTCCTCTCTCAGGCAGCCAGTTGCTTCTGTCTTTGGGTCCCAGGGCGC
CCTCTGCAATGCTGGACAATAAGACTTCCTTCTCTCAGCTGAGATGGGTCAATTCATTGACTCCTCAAACATTTTA
AAAACCTTGGTGTGTGCCAGGACCCGTGTTGGGCTCAGAACAAGGTAGAATGGGAACAAGATAGAATGAGGACA
GCCCCTGTGGAGCTCAGAGTGAATCATTGTTCCCTGTGTCTGCTCTCCCTCTGTCTATTCTGCTGGTTTTCTCTTA
TCCCCTGTGCCAGGGACCACACACCATGGGCCTCTATATATCTTCTGAATGAATGACCAGAAAAAGCAGATCGA
GAGTTTGGGGGAGGAAGGAAGTAGCCTGGGATTTGACCATCTCTGGGCTTTGCACAGAGGGGCCCTCTCTGATATT
AATGAGCTGGGACCCAGCTCAGGGCAGTGGAGTACTTGGGCCTCCAGCATCAGAAAAACCTGCAGGAACATGCAG
ATTCTGAGCCTCCTTATTCCCTACAGAATCAAGACTGTCTGGGGCAGACCTGAGAATCTGCATTTTAAGAAGAT
GATTCTCAGGCATCCCGAAGATTGAGATCTGTTGCCCTCAAGGACTCCAGCCTTCTTGGACATTTATGTGAAATT
ACCAGAACAGCATTGTTGCTTACACATACTGATCTCTGTTCTGTCTTCTTTTGGTCATTAAGCTCTCTGGGAGCA
GAGGTGCTATCTACTTGTCTTTTGTCTCTCCCGACCCTACCCCCAAGAGCTCAGCGACTTTTATTGCAGATGTC
TTTAGAGGCTCTTGGACACACAGTGTCTTCTGTTTCTCATCTCTTCTGCAGGTTGGACTCTTCACAGAAATTGG
GCCCATGTCTTGTCTCATCTCTCGACATTCCATCCCTTCAGAGATGGAGTTTGATCCTAACTCCAACCCACCATG
TTACAAGACAATGGATGAGGATATTGTGATTACAGCAGGACGATGAGATCCGCTTAAAGATTGTGGGGACCCGTGT
GGACAAGAATGACATTTTGTCTATTGGCTCCCTGATGGACGATTACTTGGGGCTGTAAAGCTGAGCCTGGTGGCC
TCCTACCCCTTGGTCTACTCTAGGAAGTGTGATTGTACACTTATCATGTTGTCCAGAGGTCCAGTCTGGCTGCT
GTTGTGGAGGCAAGGAAGGCAACTCATCCAGAAGGCATCTGGTGTCTTGTGAGCTTAACTACTGCCTCCTCAT
TTTTCAGTATGTGTTCTAAGTATAAAAAGTCCTTGGTTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1080

MLYFSLFWAARPLQRCGQLVRMAIRAQHSNAAQTQTGEANRGWTGQESLSDSDPEMWELLQREKDRQCRGLELIA
SENFCSRAALEALGSCLNKYSEGYPGKRYYGGAEVVDEIELLCQRRALEAFDLDPAQWGVNVQPYSGSPANLAV
YTALLQPHDRIMGLDLPDGGHLTHGYMSDVKRISATSIFFESMPYKLNPKTGLIDYNQLALTARLFRPRLI IAGT
SAYARLIDYARMREVCDEVKAHLLADMAHISGLVAAKVIPSPFKHADIVTTTTHKTLRGARSGLIFYRKGVKA VD
PKTGREIPYTFEDRINFVFP SLOGGPHNHAI AAVAVALKQACTPMFREYSLQVLKNARAMADALLERGYSLVSG
GTDNHLVLVDLRPKGLDGARAERVLELVSITANKNTCPGDRSAITPGGLRLGAPALTSRQFREDDFRRVVD FIDE
GVNIGLEVKSKTAKLQDFKSFLDKDSETSQR LANLRQ RVEQFARAFPM PGFDEH

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FIGURE 1081

AAAGCAGAATTGAGAGTTTGTCTTACACACAAGTTTAAATGCCACCTTCCTCTGTCTGCCATGGACCAACAAGCA
ATATATGCTGAGTTAAACTTACCCACAGACTCAGGCCCAGAAAGTTCTTCACCTTCATCTCTTCCTCGGGATGTC
TGTCAGGGTTACCTTGGCATCAATTTGCCCTGAACTTAGCTGTGCTGGGATTATTCTCCTTGTCTTGGTTGTT
ACTGGGTTGAGTGTTTCAGTGACATCCTTAATACAGAAATCATCAATAGAAAAATGCAGTGTGGACATTCAACAG
AGCAGGAATAAAACAACAGAGAGACCGGGTCTCTTAAACTGCCCAATATATTGGCAGCAACTCCGAGAGAAATGC
TTGTTATTTTCTCACACTGTCAACCCTTGGAATAACAGTCTAGCTGATTGTTCCACCAAAGAATCCAGCCTGCTG
CTTATTCGAGATAAGGATGAATTGATACACACACAGAACCTGATACGTGACAAAGCAATTCTGTTTTGGATTGGA
TTAAATTTTTCATTATCAGAAAAGAACTGGAAGTGGATAAACGGCTCTTTTTTAAATTCTAATGACTTAGAAATT
AGAGGTGATGCTAAAGAAAACAGCTGTATTTCCATCTCACAGACATCTGTGTATTCTGAGTACTGTAGTACAGAA
ATCAGATGGATCTGCCAAAAAGAACTAACACCTGTGAGAAATAAAGTGTATCCTGACTCTTGA

1200/2682
FIGURE 1082

MDQQAIYAE LNLP TD SGPESSSPSSLPRDVCQGSPWHQFALKLSCAGIILLVLVVTGLSVSVTSLIQKSSIEKCS
VDIQQSRNKTTTERPGLLNCP IYWQQLREKCLLFSHTVNPWNNSLADCSTKESSLLLRDKDELIHTQNLIRDKAI
LFWIGLNFSLSEKNWKWINGSFLNSNDLEIRGDAKENSISISQTSVYSEYCSTEIRWICQKELTPVRNKVYPDS

1201/2682
FIGURE 1083A

CCCCAGATCGGAAGTGACGGAGACGTGCTAGCGCGTGAAGGTAGCTCTATGGTTTTCTCGCGTTCTTGAGTC
GGGAAATGGCCGCTGTGTGGTTGCAACGGAGATAAATTCCCGAACCGCGATTCCGGCGTGCAGGAATTCGAATT
TAGAGTTTAAATTTCTCAGAGCATTCTCTCCAGGAAGAATTTTACAGTATCTCAAAGACTTCACTTGACTTCTTG
ATCTGTCATAAAACCAAGGAGAAAAGAAATGGGTGCGTCCAATTCTAGATCACATTCTTCAAGGTCAAAGTCTAG
ATCACAGTCTAGTTCTCGATCAAGATCAAGATCTCATTCTAGAAAAGCGGATACAGTTCTAGGTCTCGTTCCAG
AACATATTCAAGGTCTCGTAGTAGAGATCGTATGTATTCTAGAGATTATCGTCGCGATTACAGAAATAATAGAGG
AATGAGACGACCTTATGGGTACAGAGGAAGGGGTAGAGGGTATTATCAAGGAGGAGGAGGTAGATATCATCGAGG
TGGTTATAGACCTGTCTGGAATAGAAGGCACTCTAGGAGTCTAGACGAGGTCTTACGTTCCAGGAGTCCAAA
AAGAAGATCCGTTTTCTTCTCAAAGATCCAGAAGCAGATCTCGCCGGTCAATATAGATCTTCTAGGTCTCCAAGATC
ATCCTCTTCTCGTTCTTCTATCCCCATATAGCAAATCTCCTGTTTTCTAAAAGACGAGGGTCTCAGGAAAAACAAAC
CAAAAAGCTGAAGGGGAACCCCAAGAAGAGAGTCCGTTGAAAAGTAAATCACAGGAGGAACCGAAAGATACATT
TGAACATGACCCATCTGAGTCTATCGATGAATTTAATAAGTCATCAGCCACATCCGGTGATATTTGGCCTGGCCT
TTCAGCTTATGATAATAGTCTTAGATCACCCATAGTCTTCACTATTGCTACACCACCTAGTCAGAGTTTCATC
TTGCTCTGATGCTCCCATGCTCAGTACAGTTCCTCTGAAAAAATACTCCTTCTCAGCATTACATTCCATTCA
GCATAGTCTGAAAGGTCTGGGTCTGGTCTGTGTGGAATGGATCTAGTCGATACAGTCTTCTCAGAATAGTCC
AATTCATCACATCCCTTCACGAAGAAGTCTGCAAAGACAATCGCACCACAGAATGCTCCAAGAGATGAGTCTAG
GGCCGTTTCTCGTTTTATCCTGATGGTGGAGATCAGGAACTGCAAAGACTGGGAAGTTCTTAAAAAGGTTTAC
AGATGAAGAGTCTAGAGTATTCTGCTTGATAGGGGTAATACCAGGGATAAAGAGGCTTCAAAAGAGAAAGGATC
AGAGAAAGGGAGGGCAGAGGGAGAATGGGAAGATCAGGAAGCTCTAGATTACTTCAGTGATAAAGAGTCTGGAAA
ACAAAAGTTTAAATGATTGAGAAGGGGATGACACAGAGGAGACAGAGGATTATAGACAGTTTCAAGAGTCAATCCT
CGCAGATCAGGGTAAAAGTTTTGCTACTGCATCTCACCGGAATACTGAGGAGGAAGGACTCAAGTACAAGTCCAA
AGTTTCACTGAAAGGCAATAGAGAAAGTGATGGATTTAGAGAAGAAAAAATTATAAACTTAAAGAGACTGGATA
TGATGTGGAAGGCCTAGCACTACAAAAGATAAGCACAAAGAAGAAGACAAAAATTCTGAAAGAATAACAGTAAA
GAAAGAACTCAGTCACCTGAGCAGGTAAAGTCTGAAAAGCTCAAAGACCTCTTTGATTACAGTCCCCCTCTACA
CAAGAATCTGGATGCACGAGAAAAAGTCTACCTTCAGAGAGGAAAGCCCACTTAGGATCAAAATGATAGCGAGTGA
TTCTCACCGTCTGAAAGTCAAACTCAAAATGGCACCTGTTCTCTTGATGATTCTAACAGACCTGCTTCTCTTGAC
TAAAGACAGGCTGCTTGCTAGTACACTTGTCCATTCTGTCAAGAAGGAGCAAGAATTCCGATCCATCTTTGACCA
CATTAAAGTTGCCACAGGCCAGCAAAAGCACTTCAGAGTCATTTATTCAACACATTGTGTCTTGGTTTCATCATGT
TAAAGAGCAATACTTCAAGTCAGCTGCAATGACCCTAAACGAGCGGTTCACTTCGTATCAGAAAAGCCACTGAAGA
ACATAGTACTCGGCCAAAAGAGCCCTGAAATACACAGGAGAATTGACATCTCACCAAGTACCCTGAGGAAGCATAC
CCGTTTAGCAGGGGAAGAGAGAGTTTTTAAAGAAGAAAATCAAAGGGAGATAAAAAATTAAGGTGTGACTCTGC
TGACCTTCGGCATGACATTGATCGCCGTAGAAAAGAAAGAAGTAAAGAACGGGGAGATTCCAAGGGCTCCAGGGA
ATCCAGTGGATCAAGAAAGCAGGAAAAAATCCAAAAGATTACAAGGAATACAAATCTTACAAAGATGACAGTAA
ACATAAAAGAGAGCAAGATCATTCTCGATCTTCATCCTCTTCAGCATCACCTTCTTCTCCAGTTCTCGAGAAGA
AAAGGAGAGTAAGAAGGAAAGAGAAGAAGAAATTTAAACTCACCATGAAATGAAAGAATACTCAGGCTTTGCAGG
AGTTAGCCGACCACGAGGAACCTTTTTTCGAATTAGAGGCAGAGGAAGAGCCAGAGGAGTTTTTGCTGGGACAAA
TACTGGTCCAAACAACCTCAAATACTACTTTTTCAAAGAGACCGAAGGAAGAGGAATGGGATCCAGAATATACCCC
AAAGAGCAAGAAGTACTTCTTGATGACGACAGAGATGATGGTGTGGATTATTGGGCCAAAAGAGGAAGAGGTCTG
TGGTACTTTTCAACGTGGCAGAGGGCGCTTTAACTTCAAAAAATCAGGTAGCAGTCTTAAATGGACTCATGACAA
ATACCAAGGGGATGGGATTGTTGAAGATGAAGAAGAGACCATGGAATAATGAAGAAAAGAAGGACAGACGCAA
GGAAGAAAAGGAATTAATAAATATGAAGTAAGATTACAACAGAGCAGAAGTGCACCCACCATTTTTTTTACCTGA
TTTTTGTTTTCAAATAAGAATGTAAGCATTTTACTTAAATTTTACTGTTTGCAAGTAGTCTATAGAAATTTTGT
TTAAGTCTTCAAATATCTTGAGAAATAGTAGACTGTATGTTGAAAATTGTACTGAAATAAAGTAGAAATTTGTTA
CGTACCATATTTGTAACATCAACTTTTAAACTTTTAAACGTTTTTGTACATGCATTGTAATTTCTGCTTTGTCT
ATAAGATATGGTCAAGTACAGCTCTGTGAAAGTTCTGATTCTCTTCCCTTCCCTGTTTGTCAATGTTTTATTCTGA
AGTAAACGTTAGCTCTACATATAAATCCTGGAACAGAAATTGTTTATAGAGACTACACTAATTATTTTAACTGTA
TACATCTGTTTAAATTTGAACACACTACATCGTAGGGTGACTGATTTTTTGAAGTATACCACAGACAAAAAGTTGTT
ACTATGGTAAACTAAGCTAGTTTAACTTTGAGCAAATGCTTAAGAAGGAATTAAGAAAAAAGCTTTGCCAAT

1202/2682
FIGURE 1083B

AGCTAAAAAGTACAAGCTATTAAAAATCAGATTGAAAAGTTTTGAGAAAATGTTATTTTTACTGAAAGCAAGCAG
TGGCCTATAAAGAACATTCTTAGGAGCCTTTTCTATTTGCGTTCAAACTGTGTGTTCTCTTTCTATTCCCTATTT
GATAGTTTGAGTCATGGTCTTAGATATTAGCTATTTGTGAGAGGAAACTGGTTTGTAAACAATACTGCAAATAGAA
ACCCCATTTTCTACTGAACATCCTAGTTTTTAAACAGAAGAAAACTGTAATCCTGGGGTTGGTATGTAGGAGGTCT
TGGTGCAGAATAAGTTGATACATTAGTACCTGATTTTCATATCTTACATATTTATTTGAGCTGAACATTAGTTTG
GTAACTATTAGTAAAAATAGAGAAACACAGCATACTGTTTCAATTAATAGTATTTTAAAAAAATTGTTTTTCA
GTGTCACCAATAAAAGTTTTTGGCAGGAAGCTTGTGTGCGGCATTGATCTAACCTTTTTCCCCCATTTCAGTTG
CAGTTTTTGTAGAATGGCTTTTTCTTTTTCTCTTAAGAGTTCTATTCTTCAGGTAGATAATTTTTCAAATGTGA
ATATCTTTTGTGTCTATATTGATAGCTCTTAAAGGAGTGAAAATCTAAAATAGTAAATTTCAATGTTAAGTGTC
TTATGGGCATATATAAAAGTAGACACATTTTCATTTGTTAATTTAGTTGTGTGTGTGTGTGTTAAAGGAGCTA
TTTATTCTGTTAATGTAACTTTTGAAGATCTTAAGTGTATTGCTCTTTCATCTTAAACACTTTCGAGGATT
TAGTGCGTCTAGCACCTAGATTACAGCCAGGAACATTGGTTAAGAACTGTTGGAAACAAAACATAAAGCAAAC
AACATATGTGATGTTTATGGCCCTCAGATCCTTAGTATTGTGTGATTTTCCCCCGTTAACATGTCTTTCTAAA
ATGTCTATTAAAGCAGAGGAAATACCTGCCAAAGGAAGTATGTATTGCATTAATCAGGGCATACTAATATTCT
CCGTTCAGAATAATACTTATTTACGTGTGAAAGCAACATGGATGTGATTCCCAACACAGAATTTTCATGACCCT
TTATTGTATACAAATAAATACCATAACAGTTACTTGGTTAGACATCAAATCTGTGTGCATGACTATGTGCTTAT
CCACTTAAGACAATAGGTAAAAGGGGATCTGAGAAATTATGTAATAGGGAGTGGGAATAAACTACTTAATTCCT
GTGGGCAGGTTATATTTTAAGTTCAAATGCATTGCTTTAACCTTTGGTTACTTTTATTCTGTTAAACAGAATTGA
AGAAAGAGTATTATACCAGAGTGTAGTAGGCTAGGGTGATTGTAAGAACTCTGTAATAGAATGTCATTGTGGATG
TTACCTTTTTTTCAGATCCAAGCATATAAAAAGCCTGTATATTTTTTAAAAACACATCTTAACTCCACGCTTTACGA
TATTATAAAAGTTGAATGGTTCCTCTTGGTAAGGATATTTGCTTACAAGTGCTAGGAAATAACTCACTGATACCT
GCGTTAACATACTTTGTTTTGCTTAGAGAGGGGCAATAAAAATGAACCAAAGGATATTTCCAGAAAGGATTAAGA
AAGCTGTTTAAGAAGGCCATGACTCTTTAGGTGTGTATGTGTACCTTTCAGCATCCTAGGAATTTTTTATACTAAA
AGCAAAAAGTTTTTTCCAGTTAGTCTTCTTCAAGGAATTACTATTGTTCCTTTTGTACAGGTAAAATCAGTGT
GGGAATTATAATTTGAGAAAAATATTACCCAGTAACATTGAATGTAGATGGCTAAACGATTCTTACTCAGTGTGA
TGTATAATGATGCAACAGGGACCCCTTGTAATTGTACATACGCAATAAAATGTCACAAGTAAT

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FIGURE 1084

MGRSNSRSHSSRSKSRSQSSSRSRSRSHSRKKRYSSRSRSRTYSRSRSRDRMYSRDYRRDYRNNRGMRRPYGYRG
RGRGYYQGGGGRYHRGGYRPVWNRHRSRSPRRGRSRSRSPKRRSVSSQSRSRSRRSYRSSRSPRSSSSSRSSSPY
SKSPVSKRRGSQEKQTKKAEGEPQEE SPLKSKSQECPKDTFEHDPSESIDFNKSSATSGDIWPGLSAYDNSPRS
PHSPSP IATPPSQSSSCSDAPMLSTVHSAKNTPSQHSHSIQHSPERSGSGSVGNGSSRYSPSQNSPIHHIPSRRS
PAKTIAPQNAPRDESRGRSSFYPDGGDQETAKTGKFLKRFTDEESRVFLDRGNTRDKEASKEKGSEKGRAEGEW
EDQEALDYFSDKESGKQKFNDSEGDDTEETEDYRQFRKSVLADQGKSFATASHRNTEEEGLKYKSKVSLKGNRES
DGFREEKNYKLKETGYVVERPSTTKDKHKEEDKNSEKITVKKETQSPEQVKSEKLDLFDYSPPLHKNLDAREKS
TFREESPLRIKMIASDSHRPEVKLKMAMPVPLDDSNRPASLT KDRLLASTLVHSVKKQEFRSIFDHIKLPQASKS
TSESF IQHIVSLVHHVKEQYFKSAAMTLNERFTSYQKATEEHSTRQKSPEIHRRIDISPSTLRKHTRLAGEERVF
KEENQKGDKKLRCD SADLRHDIDRRRKERSKERGDSKGSRESSGSRKQEKTPKDYKEYKSYKDDSKHKREQDHSR
SSSSSASPSSPSSREEKESKKEREEFKTHHEMKEYSGFAGVSRPRTFFRIRGRGRARGVFAGTNTGPNNSNTT
FQKRPKEEWDPEYTPKSKKYFLHDDRDDGVDYWAKRGRGRGTFRGRGRFNFKKSGSSPKWTHDKYQGDGIVED
EEETMENNEEKKDRRKEEKE

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FIGURE 1085

ATGACCATGGAAACAGTTGAATCCCAGCATGATGGAAGTATAACAGCTTCTTTGACAGAGAGCAAGTCTGCTCAT
GTGCAGACTCAGACTGGGCAAATTTCAATCCCTGCTTTAGCTCAGTGCAGTGAGCTGAGATCAGGCACCAGAAGA
GGCTCCCCAGCTGTAACCTCTAGTGCAGTTACCTTCGGGCCAAACTATACATGTCCAGGGAGTAATTCAGACACCA
CAGCCATGGGTTATTTCAGTCATCAGAAATACACACCGTTTCAGGTAGCAGCAATTGCAGAGACAGATGAATCTGCA
GAATCAGAAGGTGTAATTGATTCTCATAAACGTAGAGAAATCCTTTTCACGAAGACCCTCTTATAGGAAAATACTG
AATGAACTGTCCTCTGATGTGCCTGGTGTTCCTCAAGATTGAAGAAGAGAGATCAGAGGAAGAAGGAACACCACCT
AGTATTGCTACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACATTGCTATAGCCCAAGGT
GGAACAATCCAGATTTCTAACCAGGATCTGATGGTGTTCAGGGACTGCAGGCATTAACAATGACAAATTCAGGA
GCTCCTCCACCAGGTGCTACAATTGTACAGTACGCAGCACAATCAGCTGATGGCACACAGCAGTTCTTTGTCCCA
GGCAGCCAGGTGTTGTTTCAAGCTGCCACTGGTGACATGCCAATTACCAGATCCGAGCTCCTACTGCTGCTTTG
CCACAGGGAGTGGTGATGGCTGCATCGCCCGGAAGTTTGACAGTCCCCAGCAGCTGGCAGAAGAAGCAACACGC
AAACGAGAGCTGAGGCTAATGAAAAACAGAGAAGCTGCCCAGGAGTGTGCGAGGAAGAAGAAAGAATATGTCAAA
TGTCTTGAAAATCGTGTGGCTGTGCTTGAAAACCAAAACAAGACTCTCATTGAGGAATCAAGGCCCTCAAAGAT
CTTTATTGCCATAAAGTAGAGTAACTGTCTTTGACTTGGACCTTGTTTACTCTAATCAAGGCAGGAGATGCAGCA
GTCCTACTTATTGCCATGTGGACTTGTGGGAAGGACACGTGTGACCCTTAAGAATCCAGTTTGGATTAGTGTGTTG
AAATTGAATTGGGAATGTTGTTCCAGGATGTGGAATGCAGCGTGATCACACTTACCGAGCTTACTTTGATCTGTT
TGTCATAGCATGCAAAAAATGCTTTGTTTGGCCTTTGCTTCTGCTTTTTTTTCAGGGAAGCTGCCAAAGAATGTC
GACGTCGAAAGAAAGAATATGTAAATGCCTGGAGAGCCGAGTTGCAGTGCTGGAAGTCCAGAACAAGAAGCTTA
TAGAGGAACCTTGAAACCTTGAAAGACATTTGTTCTCCCAAACTGATTACTAGAAATATTTAACTATGAACTGAT
TACAGA

1205/2682
FIGURE 1086

MTMETVESQHDGSITASLTESKSAHVQTQTGQISIPALAQCSSELRSCTRRGSPAVTLVQLPSGQTIHVQGVQITP
QPWVIQSSEIHTVQVAAIAETDESAESEGVIDSHKRREILSRRPSYRKILNELSSDVPGVPKIEEERSEEEGTPP
SIATMAVPTSIYQTSTGQYIAIAQGGTIQISNPGSDGVQGLQALMTNSGAPPPGATIVQYAAQSADGTQQFFVP
GSQVVVQAATGDMPTYQIRAPTAALPQGVVMAASPGSLHSPQQLAEEATRKRELRLMKNREAARECRRKKKEYVK
CLENRVAVLENQNKTLIEELKALKDLYCHKVE

1206/2682
FIGURE 1087

GTCAGTCGCGAGCGAACGACCAAGAGGGTGTTGCGACTGCTAGAGCCGAGCGAAGCGATGCCTAAATCAAAGGAAC
TTGTTTCTTCAGGCTCTTCTGGCAGTGATTCTGACAGTGAGGTTGACAAAAAGTTAAAGAGGAAAAAGCAAGTTG
CTCCAGAAAAACCTGTAAAGAAACAAAAGACAGGTGAGACTTCGAGAGCCCTGTCATCTTCTAAACAGAGCAGCA
GCAGCAGAGATGATAACATGTTTCAGATTGGGAAAATGAGGTACGTTAGTGTTTCGCGATTTTAAAGGCAAAGTGC
TAATTGATATTAGAGAATATTGGATGGATCCTGAAGGTGAAATGAAACCAGGAAGAAAAGGTATTTCTTTAAATC
CAGAACAATGGAGCCAGCTGAAGGAACAGATTTCTGACATTGATGATGCAGTAAGAAAAGTGTAAATTCGAGCC
ATATAAATAAAACCTGTACTGTTCTAGTTGTTTTAATCTGTCTTTTTTACATTAGCTTTTGTCTTAAATGTTCT
CCAAGCTATTGTATGTTTGGATTGCAGAAGAATTTGTAAGATGAATACTTTTTTTAATGTGCATTATTAAAAAT
ATTGAGTGAAGCTAATTGTCAACTTTATTAAGGATTACTTTGTCTGCCACCACCTAGTGTAATAAATAAATCAAG
TAATACAATCTTAAGTGTGTGGCCTTTTTTGATCATAAGAGTTGGTACTGTTTAAGGCCAAAAAGTAACAGTTTT
TATAGATCTTTTAGTTTCAACTCAGCTTTTACAATAAAAAGGATTTGTATTGCATTGAGTTTATAAACTTTTGGT
TTGTGAAGTTCATATTTGATCTTTTCTCTTCCAATCAATGTCTAGGCTTGTTTGACTTCCACCCCAATGGTTT
TTCCTCTTTTTATTACTTCATTTTCCTTTAATACTTAATCTCTTCATGTTTCAGTTTTTACTTCACTCTTTAT
TCTTTTCTTTGATTATGGTATGCTTATTTGGAAAGTCAGTGAACTGTCAAAATGTTATCTCAATAAGATACTTA
TATGAGAACTACAATCACCGAATCTACTGTATTCAATATTAGCAGATCTAATTTGATAAACACATGGCTTGTT
GAAAGTGAAGCAGGTGTTTGTGTACCCATAGTGTTCTGTGTAGTTATTGCTTAGTCTGCAGAAAATAATGACTTA
GATGAGATGTCTGACTTGCTTTCACTTATTAAACATGTTTACCATGGGATGATGTCTGTAACATCAGATATTGTT
CAACTAGACTAGGATTTAATAAAAAATTGTGAAAGCTTAAAAAAAAAAAAAAAAAAAAAAAAA

1207/2682
FIGURE 1088

MPKSKELVSSGSSGSDSDSEVDKKLKRKKQVAPEKPVKKQKTGETSRALSSSKQSSSSRDDNMFQIGKMRYVSVR
DFKGKVLIDIREYWMDPEGEMKPGRKGISLNPEQWSQLKEQISDIDDAVRKL

1208/2682
FIGURE 1089

CATGCTCTGGGCGCGGCAAAGGCGGGAAGGGTCTGGGCAAAGGAGGCGCTAAGCGCCACCGCAAAGTTCTGCGCGA
CAACATTCAGGGCATCACCAAGCCCGCCATCCGACGCCTGGCACGGCGTGGAGGCGTTAAGCGCATCTCAGGCCT
TATATACGAGGAGACACGCGGAGTTCTTAAAGTGTTTTTGGAGAATGTAATCCGCGATGCAGTTACCTACACGGA
GCACGCCAAACGCAAGACAGTCACAGCCATGGACGTGGTTTTACGCGCTCAAGCGCCAGGGCCGCACCCTGTATGG
TTTGGCGGCTGAGTGTTTTACTTACTTACACGGTTCTCTCAAAGGCCCTTCTCAGGGCCACCCA

1209/2682
FIGURE 1090

MSGRGKGGKGLGKGGAKRHRKVLRDNIQGITKPAIRRLARRGGVKRISGLIYEETRGVLKVFLENVIRDAVTYTE
HAKRKTVTAMDVVYALKRQGRITLYGFGG

1210/2682
FIGURE 1091

ATGAGACTTCTCATCCTGGCCCTCCTTGGCATCTGCTCTCTCACTGCATACATTGTGGAAGGTGTAGGGAGTGAA
GTCTCACATAGGAGGACCTGTGTGAGCCTCACTACCCAGCGACTGCCAGTTAGCAGAATCAAGACCTACACCATC
ACGGAAGGCTCCTTGAGAGCAGTAATTTTTATTACCAAACGTGGCCTAAAAGTCTGTGCTGATCCACAAGCCACG
TGGGTGAGAGACGTGGTCAGGAGCATGGACAGGAAATCCAACACCAGAAATAACATGATCCAGACCAAGCCAACA
GGAACCCAGCAATCGACCAATACAGCTGTGACCCTGACTGGCTAG

1211/2682
FIGURE 1092

MRLILALLGICSLTAYIVEGVGSEVSHRRTC VSLTTQRLPVSRIKTYTITEGSLRAVIFITKRGLKVCADPQAT
WVRDVVRSM DRKS NTRNNMIQTKPTGTQQSTNTAVLTG

1212/2682
FIGURE 1093A

ATGAGGAGGGACGAGCGAGACGCCAAAGCCATGCGGTCCCTGCAGCCGCCGGATGGGGCCGGCTCGCCCCCGAG
AGTCTGAGGAACGGCTACGTGAAGAGCTGCGTGAGCCCTTGCGGCAGGACCCTCCGCGCGGCTTCTTCTTCCAC
CTCTGCCGCTTCTGCAACGTGGAGCTGCGGCCGCCGCCGGCCTCTCCCCAGCAGCCGCGGCGCTGCTCCCCCTTC
TGCCGGGCGCGCCTCTCGCTGGGCGACCTGGCTGCCTTTGTCCTCGCCCTGCTGCTGGGAGCGGAACCCGAGAGC
TGGGCTGCCGGGGCCGCTGGCTGCGGACGCTGCTGAGCGTGTGTTTCGCACAGCTTGAGCCCCCTCTTCAGCATC
GCCTGTGCCTTCTTCTTCTCACCTGCTTCTCACCCGGACCAAGCGGGGACCCGGCCCCGGGCGGAGCTGCGGC
TCCTGGTGGCTGCTGGCGCTGCCCGCCTGCTGTTACCTGGGGGACTTCTTGGTGTGGCAGTGGTGGTCTTGGCCT
TGGGGGATGGCGACGCAGGGTCCGCGGCCCGCACACGCCCCGGAGGCGGCAGCGGCGAGGTTGCTGCTGGTG
CTGAGCTGCGTAGGGCTGCTGCTGACGCTCGCGCACCCGCTGCGGCTCCGGCACTGCGTTCGCTGCTGCTCCTG
GCCAGCTTCGTCTGGTGGGTCTCCTTCACCAGCCTCGGGTCGCTGCCCTCCGCCCTCAGGCCGCTGCTCTCCGGC
CTGGTGGGGGGCGCTGGCTGCCCTGCTGGCCCTGGGGTTGGATCACTTCTTTCAAATCAGGGAAGCGCCTCTTCAT
CCTCGACTGTCCAGTGCCGCCGAAGAAAAAGTGCTGTGATCCGACCCCGAGGAGGTTCCAGCTGCGTGTCTGTTA
GGAGAACTGCAGCCAGTTACTATGGCAGTTGCAAAATATTAGGAGACCGTCGTTGCCCTGTATTTCCAGAGAA
CAGATGATTCTTTGGGATTGGGACTTAAACAATGGTATAAGCCTCATTATCAAATTTCTGGAGGTGGAATGGA
GTTGATCTTTCACTGCTAAATGAGGCTCGCAATATGGTGTGAGATCTTCTGACTGATCCAAGCCTTCCACCACAA
GTCATTTCTCTCTACGGAGTATTAGTAGCTTAATGGGTGCTTTCTCAGGTTCCGTAGGCCAAAGATTAATCCT
CTCACACCATTTCTGGATTTTACCCCTGTTCTGAAATAGAGGACCCAGCTGAGAAAGGGGATAGAAAACCTTAAC
AAGGGACTAAATAGGAATAGTTTGCCAACCTCCACAGCTGAGGAGAAAGCTCAGGAACCTTCAGGATTGCTACCTGTT
GAACAGTCTTCAAGGTGGGATCGTAATAATGGCAAAAGACCTCACCAAGAATTTGGCATTTCAGTCAAGGATGC
TATCTAAATGGGCCTTTTAATTCAAATCTACTGACTATCCCGAAGCAAAGGTCATCTTCTGTATCACTGACTCAC
CATGTAGGTCTCAGAAGAGCTGGTGTGTTTTGTCCAGTCTGAGTCCTGTGAATTCCTTCCAACCATGGACCAGTGTCT
ACTGGCCCTCTAACTAATCGATCACCCATAGAATTTCTTGATACTGCTGATTTTCTTAATAAGCCAAGCGTTATC
TTGCAGAGATCTCTGGGCAATGCACCTAATACTCCAGATTTTATCAGCAACTTAGAAATTCTGATAGCAATCTG
TGTAACAGCTGTGGACATCAAATGCTGAAATATGTTTCAACATCTGAATCAGATGGTACAGATTGCTGCAGTGA
AAATCAGGTGAAGAAGAAAACATTTTCTCGAAAGAATCATTCAAACCTTATGGAACTCAACAAGAAGAGGAAACA
GAGAAGAAAGACAGCAGAAAATTATTTAGGAAGGTGATAAGTGGCTAACAGAAGAGGCACAGAGTGAACAGCAA
ACAAATATTGAACAGGAAGTATCACTGGACCTGATTTTAGTAGAAGAGTATGACTCATTAAATAGAAAAGATGAGC
AACTGGAATTTTCCAATTTTGAACCTGTAGAAAAGATGGGAGAGAAATCAGGAAGGATTCTCAGTCAGGTTATG
TATACCTTATTTCAAGACACTGGTTTATTGGAATATTTAAATTTCCCACTCAACAATTTATGAACTATTTTCGT
GCATTAGAAAATGGCTATCGAGACATTCCTTATCACAATCGTATACATGCCACAGATGTGCTACATGCAGTTTGG
TATCTGACAACACGGCCAGTTCTGGCTTACAGCAGATCCACAATGGTTGTGGAACAGGAAATGAAACAGATTCT
GATGGTAGAATTAACCATGGGCGAATTGCTTATATTTCTTCGAAGAGCTGCTCTAATCCTGATGAGAGTTATGGC
TGCCTGTCTTCAAACATTCTGCATTAGAATTGATGGCTCTATACGTGGCAGCTGCCATGCATGATTATGATCAC
CCAGGGAGGACAAATGCATTTCTAGTGGCTACAAATGCCCTCAGGCAGTTTTATACAATGACAGATCTGTTCTG
GAAATCATCATGCTGCGTCAGCTTGGAACTATATCTTTCTCGCCAGAATAACAACCTTCTTCTCATCTTGAT
CATGTGGAATTCAGCGCTTTCTGTTTTTAGTCATTGAAGCAATCCTTGCTACGGATCTTAAAAAGCATTTTGAT
TTTCTCGCAGAATTCAATGCCAAGGCCAAATGATGTAAATAGTAATGGCATAGAATGGAGTAATGAAAATGATCG
CCTCTTGGTATGCCAGGTGTGCATCAAACCTGGCAGATATAAATGGCCAGCAAAGTTTCGAGACTTGCATTTGAA
ATGGACAGAAGGCATTGTCAATGAATTTTATGAGCAGGGAGATGAAGAAGCAAATCTTGGTCTGCCCATCAGTCC
ATTCATGGATCGTTCTTCTCTCACTAGCAAACTCCAAGAATCTTTTATCACCCACATAGTGGGTCCCCTGTG
TAACTCCTATGATGCTGCTGGTTTGCTACCAGGTCAGTGGTTAGAAGCAGAAGAGGATAATGATACTGAAAGTGG
TGATGATGAAGACGGTGAAAGATTAGATACAGAAGATGAAGAAATGGAAAACAATCTAAATCCAAAACCACCAAG
AAGGAAAAGCAGACGGCGAATATTTTGTGAGCTAATGCACCACCTCACTGAAAACCACAAGATATGGAAGGAAAT
CGTAGAGGAAGAAGAAAAATGTAAAGCTGATGGGAATAAACTGCAGGTGGAGAATTCCTCCTTACCTCAAGCAGA
TGAGATTCAGGTAATTGAAGAGGCAGATGAAGAGGAATAGCGACAGTTTGAGTAAAAAGAAAAGTCATATTGAAGA
AGCCAGAGGGTTGTGCCAGGGGCAGAAATCATTGCTAGTGTTACCCGGCTGACTCTCAACTGACCATTCCCA
TGTGGACAGGCCTTAATACTGTGAGAGGATCCTTGCTCTGCTGGCAGTTTCCCACTCCTATGCATTTACAGGA
ACTAGAAAACCTATTCTTAACCAAAAAATACCATCCGTGTTGACCCATGTTGCAGAGCCCTTACTTAAATCCTTCA

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FIGURE 1093B

CTGGTGTATGAATACTTTGTCATAATGCTGCTTTGCTGGGTAGTGAGCTCTTATTTTTCTACTGGGGGTCAGCTAT
AACTAAAAACTCAAGTGACATATTTTCAGTTACCAAAGTGGCCAGGAACCTTTTGGCTTTTATGAAAATAGATTCAT
ATTGTATTTCCAGTGTGTCTTTTATGTCTTTGAATGTTTTGGAGAAAAGTCTATGCCTGTCTAAAAATGAATCC
AGTGTTCCTTTCTGAGGGATTTCTGCTCAATGCAATACACTGTTTCAGTGCTATTCTCCAGCTAGGTTTATCCA
TGAAGGACTGAGTGACCTTTGTTGTATTTAACAAAATCCAGGTGCATCAATTTCTGATGCTTTTTACTATTGTGT
ATTATCTACTATGTGTGTTTTATTTCTGCTGAGAGTATTCAGGTTTGCCATGGACATCAGAAGTTTGAATTCCAG
TCTTATCTTATGTTCCATGGCTGAATTTTAAAGCTGTTTAGGTTTAAACAATGAAGGGATTTATTCTTTAGTCAAA
ATTGTTGTTTTACTCTAGCTCAGGATTCGTATTTTAAAGATTTAGTTAATATAAACACAGCACAGATTTGTCA
GAAGAAAAAAATTTGCTGTAATACCAAACTAACCTCATCAAAGATACAGAAAAAAGAAATATAGTGAGCCCT
AAAGGACACATACATTGAATAAATAATTGGAACATGTGGTTATCTTTAGATCCACATCTTAGCTGTCATTTGTTT
ACTCTAAACTGATGTTTCATCTTTCTGTTAATTTCCCTCTGCCTAAAGACTACATGACAGAAATGACCTATCACT
ACTTATTATTTCTGAAGCCTAACTGCAAGACTGATTTCTGAGAACAAAGTAAAGAACTGGAATACTTATTTTTCAT
ATAAAAATCTAAATGTGTTAATAAATCATTTCATACAAAAGTACATTATTAATAAACCACATTATTAATAAAT
GCAAGAAAATGGACCATATTTACAATGTTTTGTAACTTGCTAGTGTGTGGATATGTACCCTACTTGTGAAATAC
ATTTGAAGATATAAAGAGCAGCCAAAATGATGGCAAAATGGTAGGCTAATATTTCTATTATTATTGGAGAACAT
ATCATATTTTGGAAATCATGCAATTTTGACACAGTGAAACCATTAAATTTTCCAAGGTAATTCCTTTAGAATATGG
TATTGGCATGCAGTTTCTTACTTATCTAGAATATTTGGCTTATCTGAAAGATATCAATTTAAGATCTCTGGAAGT
GTTAGAATTTTGTATCCTTCACAGTGTCAATATTTAATGAATCACTAAGCTTTATTTATTAGACGTGTTGAGTGA
GTGCTGAGTTTCTTGCTGCCACTTTTGTTACCATTTGTCACACACTATGTGTAAACCAGTCCCACCCTTATTACT
AATAAAATTTTGACTGATAATTTATATTTGCACTTACAATATATATATCCTGTCCTTATATTTCTCTAGAGTACA
TTTTCCATCATGTTTTAAGTGTATTTCTGCTATTATTTCTCTCCTGCAGAATACATACAAGTGTATGTGTATAAA
GTCATACATGTACAAGCATGCATATTGAGATTGAATCACATTTCCATACTGTCTGTTATTTTATTGGGTTTTATA
TTGGGTTTTCTTTAGTTTTATGTTGTTTTCTCAAAAAGCAGCATTTTAAATTACGAATACTGGACTTATTGGATTAA
TTATAAATCCAATTACTACTGGAAACTCATTTTACATAATATAGTCCTTAAATTATTTAACCCTTGCTAAGTAA
TTGACATATGTAACAATAACTAGCCTAAAGAAACCCAAAAAAGTATCTCTCCGAGCTGAAACTTAAAAATTGC
TAAGTGTAAGAAAGAATGTGAGAATATATTAATGCACACTGTACCATTAGATGAAATCTTACTTGAGAAATTGC
CATAAGCCATATTACAGATCTTACTTTGATTGTTACTGAATCAGATTAATTTCTTGTATAATAATTTTCATCAT
AAATTTTCTATTTTAAAGCCGCTGGTACTAGAAATATTTCTTTAATGCTATATCTATGTACCTACTGACACATT
TTTCTCCATAAAAGTACTTTTAAAAATTACTTCATGATTTG

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FIGURE 1094

MRRDERDAKAMRSLQPPDGAGSPPELNRNGYVKSCVSPLRQDPPRGFFFHLCRFCNVELRPPASPQQPRRCSPF
CRARLSLGLDAAFLVALLLGAEPESWAAGAAWLRTLLSVCSHLSPLFSIACAFFFLTCLTRTKRGPGPGRSCG
SWWLLALPACCYLGDFLVWQWWSWPWGDGDAGSAAPHTPPEAAAAGRLLLVLSCVGLLLTLAHLPLRLRHCVLVLLL
ASFVWVVSFTSLGSLPSALRPLLSGLVGGAGCLLALGLDHFFQIREAPLHPRLLSSAAEEKVPVIRPRRRSSCVSL
ATAASYYGSKIFRRPSLPCISREQMILWDWDLKQWKPHYQNSGGGNGVDLSVLNEARNMVSDLLTDPSPPPQ
GLRSISSLMGAFSGSCRPKINPLTPFPGFYPCSEIEDPAEKGDRLNKGLNRNSLPTPQLRRSSGTSGLLPV
QSRWDRNNGKRPHQEFGISSQGCYLNPFNSNLLTIPKQRSSSVSLTHHVGLRRAGVLSLSPVNSSNHGPVS
RPLTNRSPIEF PDTADFLNKPSVILQRSLGNAPNTPDFYQQLRNSDSNLCNSCGHQMLKYVSTSES DGTCCSG
QCEENIFSKESEFKLMETQEEETEKKDSRKLFQEGDKWLTEEAQSEQQTNIEQEVSLDLILVEEYDSLIEKMS
QFPPIFELVEKMGEKSGRILSQVMTLFDQTGLLEIFKIPTQQFMNYFRALENGYRDIPYHNRIHATDVLHAVW
TRPVPGLOQIHNGCGTGNETDSDGRINHGRIAYISSKSCSNPDESYGCLSSNIPALELMALYVAAAMHDYDH
PNAFLVATNAPQAVLYNDRSVLENHHAASAWNLYLSRPEYNFLHLDHVEFKRFRFLVIEAILATDLKKHFD
AEFNAKAK

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FIGURE 1095

GTTTCATTACTACAGGAAAACTGTTCTCTTCTGTGGCACAGAGAACCCTGCTTCAAAGCAGAAGTAGCAGTTCCG
GAGTCCAGCTGGCTAAAACTCATCCCAGAGGATAATGGCAACCCATGCCTTAGAAATCGCTGGGCTGTTTCTTGG
TGGTGTTGGAATGGTGGGCACAGTGGCTGTCACTGTGCCTCAGTGGAGAGTGTGCGCCTTCATTGAAAACAA
CATCGTGGTTTTTTGAAAACTTCTGGGAAGGACTGTGGATGAATTGCGTGAGGCAGGCTAACATCAGGATGCAGTG
CAAAATCTATGATTCCCTGCTGGCTCTTTCTCCGGACCTACAGGCAGCCAGAGGACTGATGTGTGCTGCTTCCGT
GATGTCCTTCTTGGCTTTCATGATGGCCATCCTTGGCATGAAATGCACCAGGTGCACGGGGGACAATGAGAAGGT
GAAGGCTCACATTCTGCTGACGGCTGGAATCATCTTCATCATCACGGGCATGGTGGTGCTCATCCCTGTGAGCTG
GGTTGCCAATGCCATCATCAGAGATTTCTATAACTCAATAGTGAATGTTGCCCCAAAAACGTGAGCTTGGAGAAGC
TCTCTACTTAGGATGGACCACGGCACTGGTGCTGATTGTTGGAGGAGCTCTGTTCTGCTGCGTTTTTTGTGCAA
CGAAAAGAGCAGTAGCTACAGATACTCGATACCTTCCCATCGCACAACCCAAAAAAGTTATCACACCGGAAAGAA
GTCACCGAGCGTCTACTCCAGAAGTCAGTATGTGTAGTTGTGTATGTTTTTTAACTTTACTATAAAGCCATTTA
CTTCAAAATGACATTGCTAAAGACTGCATTATTTTACTACTGTAATTTCTCCACGACATAGCATTATGTACATAG
ATGAGTGTAACATTTATATCTCACATAGAGACATGCTTATATGGTTTTATTTAAAATGAAATGCCAGTCCATTAC
ACTGAATAAATAGAACTCAACTATTGCTTTTCAGGGAAATCATGGATAGGGTTGAAGAAGGTTACTATTAATTGT
TTAAAAACAGCTTAGGGATTAATGTCCTCCATTTATAATGAAGATTAAAATGAAGGCTTTAATCAGCATTGTAAA
GGAAATTGAATGGCTTCTGATATGCTGTTTTTTAGCCTAGGAGTTAGAAATCCTAACTTCTTTATCCTCTTCTC
CCAGAGGCTTTTTTTTCTTGTGTATTAAATTAACATTTTAAAAAGCAGATATTTTGTCAAGGGGCTTTGCATT
CAAACCTGCTTTTCCAGGGCTATACTCAGAAGAAAGATAAAAGTGTGATCTAAGAAAAAGTGATGGTTTTAGGAAA
GTGAAAATATTTTTGTTTTGTATTTGAAGAAGAATGATGCATTTTGACAAGAAATCATATATGTATGGATATAT
TTTAATAAGTATTTGAGTACAGACTTTGAGGTTTCATCAATATAAATAAAAGAGCAGAAAAATATGTCTTGGTTT
TCATTTGCTTACCAAAAAACAACAACAAAAAAGTTGTCCTTTGAGAACTTCACCTGCTCCTATGTGGGTACCT
GAGTCAAAATTGTCATTTTTGTTCTGTGAAAAATAAATTCCTTCTTGTACCATTTCTGTTTAGTTTTACTAAAA
TCTGTAAATACTGTATTTTTCTGTTTATTCCAAATTTGATGAACTGACAATCCAATTTGAAAGTTTGTGTGCGAC
GTCTGTCTAGCTTAAATGAATGTGTTCTATTTGCTTTATACATTTATATTAATAAATTGTACATTTTTCTAATTA
TTTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1096

MATHALEIAGLFLGGVGMVGTVAVTVMPOWRVSAFIENNIVVFENFW EGLWMNCVRQANIRMQCKIYDSLLALSP
DLQAARGLMCAASVMSFLAFMMAILGMKCTRCTGDNEKVKAHILLTAGIIFIITGMVVLIPVSWVANAIIRDFYN
SIVNVAQKRELGEALYLGWTTALVLIVGGALFCCVFCCNEKSSSYRYSIPSHRTTQKSYHTGKKSPSVYSRSQYV

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FIGURE 1097

CCACGCGTCCGGTTATCAGCAGGATCCATGCCGCCAGAGTAAAGCTTTCTACCCTTTACTCCCTGCAAAGAAACA
AGAGTGCTTATCCCAGCTAAGCTCCAGGGTTAAACTCTATGCTGGTCATTCCCTTCAGGATTTGGCACTCACCA
ACATACCCTTCTTTCAAGTGAAAAGGCATCTCTTTTAATGGTCCTGACCTTTGGAATAGGAAGCATGTACCCTGG
ACAGAGCACTTCAAAC TAGAGGAACCATAAATCCATGGCTAACCTTGACAAATACACTGAAACATTCAAGATGGG
TAGCAACAGTACCAGCACTGCTGAGATTTACTGTAATGTCACTAATGTGAAATTTCAATACTCCCTCTATGCAAC
CACCTATATCCTCATATTCATTCCCTGGTCTTCTGGCTAACAGTGCAGCCTTGTTGGGTTCTGTGCCGCTTCATCAG
CAAGAAAAATAAAGCCATCATTTTCATGATCAACCTCTCTGTGGCTGACCTTGCTCATGTATTATCTTTACCCCT
CCGGATTTACTATTACATCAGCCACCCTGGCCTTTCCAGAGAGCCCTTTGCCTGCTCTGCTTCTACCTGAAGTA
TCTCAACATGTATGCCAGCATTTGTTTCCTGACGTGCATCAGTCTTCAAAGGTGCTTTTTTCTCCTCAAGCCCTT
CAGGGCCAGAGACTGGAAGCGTAGGTACGATGTGGGCATCAGTGCTGCCATCTGGATCGTTGTGGGGACTGCCTG
TTTGCCATTTCCCATCCTGAGAAGCACAGACTTAAACAACAACAAGTCCTGCTTTGCTGATCTTGGATAACAAGCA
AATGAATGCAGTTGCGTTGGTCGGGATGATTACAGTTGCTGAGCTTGCAGGATTTGTGATCCAGTGATCATCAT
CGCATGGTGTACCTGGAAAAC TACTATATCCTTGAGACAGCCACCAATGGCTTTCCAAGGGATCAGTGAGAGGCA
GAAAGCACTGCGGATGGTGTTCATGTGTGCTGCAGTCTTCTTCATCTGCTTCACTCCCTATCATATTAACCTTTAT
TTTTTACACCATGGTAAAGGAAACCATCATTAGCAGTTGTCCCGTTGTCCGAATCGCACTGTATTTCCACCCTTT
TTGCCTGTGCCTTGCAAGTCTCTGCTGCCTTTTGGATCCAATTCTTTATTACTTTATGGCTTCAGAGTTTCGTGA
CCAACATATCCCGCCATGGCAGTTCTGTGACCCGCTCCCGCCTCATGAGCAAGGAGAGTGGTTCATCAATGATTGG
CTAAAATTAAGATATCTCTTTAATTACGCCTTTGTTTACCTACGTTCCCTTGTCTTTTTTCAAAGGCCAGAATTGT
CAACCAATTTCTTTAATTGAACATTGTAAAAAACAGGAATAAGTACTTTTGTGTAATATTCACAGTCAACAGGGG
TGTGATGGTGAAGGCAGAGTGTGAAAAACGTGAGAGAGGAAGAGAAAATAGATTTACCTGATT

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FIGURE 1098

RNHKSMANLDKYTETFKMGSNSTSTAEIYCNVTNVKFQYSLYATTYILIFIPGLLANSAALWVLCRFISKKNKAI
IFMINLSVADLAHVLSLPLRIYYYISHHWPFQALCLLCFYLYLNMYASICFLTCISLQRCFFLLKPFRRARDWK
RRYDVGISAAIWIVVGTACLPFPILRSTDNLNNKSCFADLGKQMNVALVGMITVAELAGFVIPVIIIAWCTWK
TTISLRQPPMAFQGISERQKALRMVFMCAAVFFICFTPYHINFIFYTMVKETIISSCPVVRIALYFHPFCLCLAS
LCCLLDPILYYFMASEFRDQLSRHGSSVTRSRLMSKESGSSMIG

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FIGURE 1099

GGCACGAGGGACAAGCTCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAAAGAAATTC
AGACTCTCCTGTCCACAAAACTCCCAAGTCAGAGAACAGAGACAAAAAGGAAAAACCAAGCCCGATGCATATG
ACATGATGGTTTCGCGAGCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGCAGAATTGG
CAAAGGAAGAGCAGGAGCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGATGAGGATG
AAAATGTTAAGAAACCAAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGATGACAGGC
GTTTGCTTTCTACAAAGATGGAAAGATGAATGTGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGAAGCCAGTG
ACCCTGAGAGCAACGAGGAAGAAGGTGACAGTTCAGGCGGGGAGGACACAGAGGAGAGCGACAGCCAGATAGCC
ACTCGGACCTGGAATCCAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCAGACTCCTG
GGAAAGGGTTGATAAGCGGCAAGGAAGAGCTGGAAAAGCTACCAGAGACGAGCTGCCCTACACGTTTCGCAGCCC
CTGAATCCTATGAGGAACTGAGATCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGTGGAGAGAA
TTCAGAAAGTGCAACCAACCCGAGTCTCGCAGAAGGAAACAAAGCAAAATTAGAAAACTGTTTGGCTTTCTTTTG
AATACGTTGGCGATTTGGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCACTTATATC
ATCTTTGCCAGATGTTTCTGAATCTGCAAGTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCATGAGATGG
AAGAAATGATTGAGACCAAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTTATTTGAAAATCACTGGGC
TGCTATTTCCAACCTCCGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCCTCAGTCAGCTGCTCACCA
AGTGCCCCATCCTGTCCCTCCAGGACGTGGTGAAGGGCCTGTTCTGTGCTGCCTGTTCTGGAGTATGTGGCTT
TGTCAGAGGTTTATACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAACAAAGCAA
GCCAAGGTTCCACTCTGGTGCACCCCTTTTCAGAGCGCTTGGGAAGAACTCGGAAGTCTCGTGGTGTCTGCTAGAG
AGGATGTGGCCACGTGGCAGCAGAGCAGCCTCTCCCTCCGCTGGTCTCGAATTCCCGACCTCAGGTAATCCACCT
GCCTTGGCCCCCAATTATAGGTGTGAGCCACAGCACCCAGCCAAAAAAGTAATTTTTTTTAGAGTAATAATGCT
ATAATGTTGGTGTGATTCCAACCTCCAGCTCCCCCACCCTGCTGCGGTTTTGTTTCTGTTAAACGTCACC
TGATGAAATAGAATGAATCCTGAAATGCACCTCTGGGATCGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTT
CACTGCGTCTGGACAAGCCTCATGGGGACTGGGGATTCTGGCCAGTGTAATTTCTGTCAACCACGGACGTTTGCC
TTCATGTGTAGAATTTACTGTTGTTATGCAAATTATATTTTCAATTATAAATGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1100

GTGCAGAAAGCACCGTCTTTTACTAGAAGAAGACAATAAAATGTTGGTCAATGAACTGAATCATTGAAAAGAAAA
AGAATGCCAATATGAAAAAGAGAAAGCAGAAAGAGAAGTAGCTGTGAGACAGCTTCAACAAAAACGAGATGATGT
CTTAAACAAAGGATCAGCAACAAAAGCTCTGCTGGATGCTTCATCGCGTCACTGCACCTATTTAGAAAATGGGAT
GCAGGATTCAAGGAAGAAATTAGACCAGATGAGAAGTCAATTTCAAGAAATACAGGATCAACTTACAGCTACTAT
AGGATGTACTAAGGAGATGGATGGCGACACACAAAAGCTTGAAGTAGAACATGTGATGATGAGAAAAATTATTAA
ACAGGATGACCAAATTGAGCGGCTTGAGAAAATCCTGCAGCATTCAAGTTTGATGCTGCAGGTGTTTGAGAG
TAGATGAAGATATGGACATTTCTGGAATTAAGAGCCCCCTCTACATTGAGCACAAGACAGTGACGAATCCACAT
TCITCAGCCAGAAAGTCACCTCTGAGAGCCAAATGTCTGACTATAGAAAGGAGAGTCAAAGAATGATAACGACAT
CAGGAAAATTGTGAAAATAATCAGCAGCCGGATGTGGATAACCCCTTCAAATTTCTCCTGGGGCCTCCAACCA
CCACTGGTGTCTCCTGCTGACAGTGATTTCAATTTTTCTGGGCTGGAGCTCCCTGATGGAGGGGCAGGCC
ATCTTTGCTGTTTTTGCAACTTAGCCACTTCAGCCTTCAGTCTTTGGAGTGTCCAAGGAGACCAGGGGTGA
GGACCCTCAGCATAGCACAGCTGCTCTATAAAGATGAGGCCAGACTGCTTTTTTGAGCACTTTCCCAATGCC
ATCCTCCTCACTGGGCAAAACCTCCAAACTGGGGTCTCCAGCCACCTCCTACAGGTGTGTTTGGGCCAGCAACA
ATTCATTATACCTCCCTAGGGCAAAGCTTCAAAGGGAGCGGTAGGCTGCCATCTTGCTGTTTCACAGGCTT
CACTGATGATAACTCCAGGTACTGGAATCTGAGGCTACTAGAGACTGGAGCGGGCCCTGGGCATACTGCAGCA
GCCCTATGGAAAAGTGGCCAGACTGTTACCTGGGTTCCTATTCTATCTTCTCACTAGGCAAGTCTTGAGGC
CTGGGCCTCTACCTAACCCCCCTACCAGAACTGTTGAGCCAGTAGCAACTCAGCCACTCCCTGGAGAGAGCCTC
CAGGGGCAACTGAAAGCCTCTCTGCCACTGCTTCTGCAGTGGAAGTGTCTTGTACCTCAGACTGATGAAGGA
GCTAACACCCCTTATCTACACCTTCAACAAGCTTTAATTGACCAAAGCCCATCTCTCATGGGTCTACACACTCCC
CACTGCTCATGACAGGGAACCCCTGGATTGGCCCCACAGCACGAATTCTCCATCCTGATTGCTGATTGCAGTAA
ACAGTTGCTGTATTCTCCAGGGGTGGTGGAACTCTGAGGAGACAAACAAAAGACCCTTGGCTACAACCACTACTA
ATGTCCCTTCCTCTTCTGCCTCAAAGTTAGGAAAGAAATATAAACTGAGATTGCCCCAGAGCTGCAGTGGGCA
GCCTAGGAGTGCCAAGCCATGACCTACAGCCAGCACTCAAGGGGGAGAGAAGCACATTTTCAGATCATTGAGAGG
GAACATGGCTGCAACTGTAAGGAAACATAGGGGAGCCACATGACCAAGCAAGAGTCTACCAACTGACCAGTAAGC
CCAAGTGCCACCTACTGGATCACATCCCAAAGCTTCAGCATCAAAAATACCCTACTAATATACTCCCTCTGAAA
CCAGAAATGAGAAGTCAGCTTCAAATAAAGACCCTGCACAAAAGCCTCAGCCTGGTGAAAACATCCGAAAATAAGT
CTACGGACTGTACTCAATCTACACTGCAATTAAGGAAAAACCCATAGGTGGAAATGAGAAGAAACCAATGCAAGA
ACTCCAGTAACTCAAATGGCCTCTGTGTATATGTCTTCTAACAACCACACCAGTTCTCCAACAAGAGTTCTTA
ACCTGGATGAAGTGTCTGGAATTACATAAATATAATTCAGAATATGGATAGGAAAAAAATCATCAAGACTCAGG
AGAATGGCAAACCCAATCCAAGGAAAATAAGAATAACAGTAAAGTGTACAGGAGCTGAAGGATAAAGTAGCTG
GTATAATAAAAAAGAACCTAACCGATCTGAAAGCGCCGAAGAACAATAACAAGAATTCACAATGCAATCACAA
GTATTAACAGCAGAAAAAAAACCTGAGGAACGAATCTCAGAACTTGAAGATTGGTTCTCTAAAATAAGATGGAC
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1101

MLVNELNHSKEKECQYEKEKAEREVAVRQLQQKRDDVLNKGSA TKALLDASSRHCTYLENGMQDSRKKLDQMR SQ
FQEIQDQLTATIRCTKEMDGD TQKLEVEHVMMRKIIKKQDDQIERLEKILQHSSMLQVFES

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FIGURE 1102A

ATGGCGGCGGCGGCGGGGAATCGCGCCTCGTCGTCGGGATTCCCGGGCGCCAGGGCTACGAGCCCTGAGGCAGGC
GGCGGCGGAGGAGCCCTCAAGGCGAGCAGCGCGCGCGGCTGCCGCGGACTGCTGCGGGAGGCGGGCAGCGGG
GGCCGCGAGCGGGCGGACTGGCGGCGGCGGCAGCTGCGCAAAGTGCAGGAGTGTGGAGCTGGACCAGCTGCCTGAG
CAGCCGCTCTTTCCTTGCCGCTCACCGCCGGCCTCCTCGACTTCCCCGTGCGCGGAGCCCGCGGACGCAGCGGGG
AGTGGGACCGGCTTCCAGCCTGTGGCGGTGCCGCCGCCACGGAGCCGCCAGCCGGCGGCGGCCACCTTACC
GAGTCGGTGGCGGCGCGGACAGCGGCGCCTCGAGTCCCGCAGCGCCGAGCCGGGGAGAAGCGGGCGCCCGCC
GCCGAGCCGTCTCCTGCAGCGGCCCCCGCGGTCTGTGAGATGGAGAATAAAGAACTCTCAAAGGGTTGCACAAG
ATGGATGATCGTCCAGAGGAACGAATGATCAGGGAGAACTGAAGGCAACCTGTATGCCAGCCTGGAAGCACGAA
TGGTTGGAAAGGAGAAATAGGCGAGGGCCTGTGGTGGTAAAACCAATCCAGTTAAAGGAGATGGATCTGAAATG
AATCACTTAGCAGCTGAGTCTCCAGGAGAGGTCCAGGCAAGTGCGGCTTACCAGCTTCAAAGGCCGACGCAGT
CCTTCTCCTGGCAACTCCCCATCAGGTTCGCACAGTGAAATCAGAATCTCCAGGAGTAAGGAGAAAAAGAGTTTC
CCAGTGCCTTTTCAGAGTGGCAGAATCACACCACC^{CG}GAAGAGCCCC^{TT}CACCAGATGGCTTCTCACCATATAGC
CCTGAGGAAACAAACCGCCGTGTTAACAAAGTATGCGGGCCAGACTGTACTTACTGCAGCAGATAGGGCCTAAC
TCTTTCCTGATTGGAGGAGACAGCCCAGACAATAAATACCGGTGTTTATTGGGCCTCAGAACTGCAGCTGTGCA
CGTGGAACATTCTGTATTCTATCTGCTATTTGTGATGCTCCGGGTGTTTCAACTAGAACCTTCAGACCCAATGTTA
TGGAGAAAAACTTTAAAGAATTTTGAGGTTGAGAGTTTGTTCAGAAATATCACAGTAAGCGTAGCTCAAGGATC
AAAGCTCCATCTCGTAACACCATCCAGAAGTTTGTTCACGCATGTCAAATTCTCATACATTGTCTATCTAGT
ACTTCTACATCTAGTTCAGAAAACAGCATAAAGGATGAAGAGGAACAGATGTGTCCTATTTGCTTGTGGGCATG
CTTGATGAAGAAAGTCTTACAGTGTGTGAAGACGGCTGCAGGAACAAGCTGCACCACCACTGCATGTCAATTTGG
GCAGAAGAGTGTAGAAGAAATAGAGAACCTTTAATATGTCCCC^{TT}TGTAGATCTAAGTGGAGATCTCATGATTTT
TACAGCCACGAGTTGTCAAGTCCTGTGGATTCCCC^{TT}CTTCCCTCAGAGCTGCACAGCAGCAAACCGTACAGCAG
CAGCCTTTGGCTGGATCACGAAGGAATCAAGAGAGCAATTTTAACTTACTCATTATGGAAC^TCAGCAAATCCCT
CCTGCTTACAAAGATTTAGCTGAGCCATGGATT^CAGGTGTTTGGAAATGGAAC^TCGTTGGCTGCTTATTTTCTAGA
AACTGGAATGTGAGAGAGATGGCCCTCAGGCGTCTTTCCCATGATGTCAAGTGGGGCCCTGCTGTTGGCAAATGGG
GAGAGCACTGGA^{AA}TTCTGGGGGCGAGCAGTGGAAAGCAGCCCCGAGTGGGGGAGCCACCAGTGGGTCTTCCCAGACC
AGTATCTCAGGAGATGTGGTGGAGGCATGCTGCAGCGTTCTGTCAATGGTCTGTGCTGACCCTGTCTACAAAGTG
TACGTTGCTGCTTTAAAACATTGAGAGCCATGCTGGTATATACTCCTTGCCACAGTTTAGCGGAAAGAATCAAA
CTTCAGAGACTTCTCCAGCCAGTTGTAGACACCATCCTAGTCAAATGTGCAGATGCCAATAGCCGCACAAGTCAG
CTGTCCATATCAACACTGTTGGAAC^TGTGCAAAGGCCAAGCAGGAGAGTTGGCAGTTGGCAGAGAAATACTAAAA
GCTGGATCCATTGGTATTGGTGGTGTGATTATGTCTTAAATTGTATTCTTGGAACCAAAC^TGAATCAAAACAAT
TGGCAAGA^{ACT}TTCTGGCCGCCTTTGTCTTATAGATAGACTGTTGTTGGAATTTCTGCTGAATTTTATCCTCAT
ATTGTCAGTACTGATGTTTACAAGCTGAGCCTGTTGAAATCAGGTATAAGAAGCTGCTGTCCCTCTTAACCTTT
GCTTTGCAGTCCATTAATAATTCCCACTCAATGGTTGGCAA^{ACT}TTCCAGAAGGATCTACTTGAAGTTCTGCAAGA
ATGGTTACTACAGTACCCCATGTGTTTCAA^{ACT}GTTAGAAATGCTGAGTGTTCAGTTCCACTCACTTACC
AGGATGCGTCGCCGTTTGTATGGCTATTGCAGATGAGGTGGA^{AA}TTGCCGAAGCCATCCAGTTGGGCGTAGAAGAC
ACTTTGGATGGTCAACAGGACAGCTTCTTGCAGGCATCTGTTCCCAACA^{ACT}ATCTGGA^{AA}ACCACAGAGA^{AC}AGT
TCCCCTGAGTGCACAATCCATTTAGAGAAA^{ACT}TGGA^{AA}AGGATTATGTGCTACAAA^{ATT}GAGTGCCAGTT^CCAGAG
GACATTTCTGAGAGACTGGCCAGCATTT^CAGTAGGACCTTCTAGTTCAACTACTA^{CT}ACTACTACAACA^CAGAG
GCAACCAAAGCCAATGGTTCAAACAAAAGGCAGACCC^{CA}CAGTCAGTGTGTTGA^{ACT}CCTCTCCTTTATCTCATCA
TTCCCAATTAATGTTTCCAGCCTTGTCA^{CCCC}CTTCTTCTTACCCCATCTGTACCAGCTGGCACTGCAACAGA
TGCTCTAAGCATAGACTTCAGGGATTCA^TTCCCTGCAGAATACCTTCTGCATCTCCTCAAACACAGCGCAAGTT
TTCTCTACAATTCCACAGAA^{ACT}GTCTGAAAACAAAGACTCAGATAA^{ACT}TTCCCCAGTCTTTACTCAGTCAAG
ACCTTTGCCCTCCAGTAACATACACAGGCCAAAGCCATCTCGACCTACCCAGGTAATACAAGTAAACAGGGAGA
TCCCTCAA^{AAA}ATAGCATGACACTTGATCTGAACAGTAGTTCCAAATGTGATGACAGCTTTGGCTGTAGCAGCAA
TAGTAGTAATGCTGTTATACCCAGTGACGAGACAGTGTTACCC^{CA}AGTAGAGGAGAAATGCAGATTAGATGTCAA
TACAGAGCTCAACTCCAGTATTGAGGACCTTCTTGAAGCATCTATGCC^{TT}CAAGTGATACAACAGTA^{ACT}TTTAA
GTCAGAAGTTGCTGTCTCTCTGAAAGGCTGAA^{AT}GATGATACCTACA^{AG}ATGATGTGAATCATAATCA
AAAGTGCAAAGAGAAGATGGAAGCTGAAGAAGAAG^{CT}TTAGCAATTGCCATGGCAATGTCAGCGTCTCAGGA

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FIGURE 1102B

TGCCCTCCCCATAGTTCCTCAGCTGCAGGTTGAAAATGGAGAAGATATCATCATTATTCAACAGGATACACCAGA
GACTCTACCAGGACATACCAAAGCAAACAACCGTATAGAGAAGACACTGAATGGCTGAAAGGTCAACAGATAGG
CCTTGGAGCATTTTCTTCTTGTATCAGGCTCAAGATGTGGGAAGTGAAGTCTTAATGGCTGTTAAACAGGTGAC
TTATGTCAGAAACACATCTTCTGAGCAAGAAGAAGTAGTAGAAGCACTAAGAGAAGAGATAAGAATGATGAGCCA
TCTGAATCATCCAAACATCATTAGGATGTTGGGAGCCACGTGTGAGAAGAGCAATTACAATCTCTTCATTGAATG
GATGGCAGGGGGATCGGTGGCTCATTGCTGAGTAAATATGGAGCCTTCAAAGAATCAGTAGTTATTAACCTACAC
TGAACAGTTACTCCGTGGCCTTTCGTATCTCCATGAAAACCAAATCATTACAGAGATGTCAAAGGTGCCAATTT
GCTAATTGACAGCACTGGTCAGAGACTAAGAATTGCAGATTTTGGAGCTGCAGCCAGGTTGGCATCAAAGGAAC
TGGTGCAGGAGAGTTTCAGGGACAATTACTGGGGACAATTGCATTTATGGCACCTGAGGTACTAAGAGGTCAACA
GTATGGAAGGAGCTGTGATGTATGGAGTGTGGCTGTGCTATTATAGAAATGGCTTGTGCAAAACCACCATGGAA
TGCAGAAAAACACTCCAATCATCTTGCTTTGATATTTAAGATTGCTAGTGAACCTACTGCTCCATCGATCCCTTC
ACATTTGTCTCCTGGTTTACGAGATGTGGCTCTTCGTTGTTTAGAACTTCAACCTCAGGACAGACCTCCATCAAG
AGAGCTACTGAAGCATCCAGTCTTTCGTACTACATGGTAGCCAATTATGCAGATCAACTACAGTAGAAACAGGAT
GCTCAACAAGAGAAAAAACTTGTGGGGAACCACTTGATATTCTACTGGCCATGATGCCACTGAACAGCTATG
AACGAGGCCAGTGGGGAACCTTACCTAAGTATGTGATTGACAAATCATGATCTGTACCTAAGCTCAGTATGCAA
AAGCCCAAAGTAGTGCAAACTGTAACTGTGCCTTTCAAAGAACTGGCCCTAGGTGAACAGGAAAAACAATGAA
GTTTGCATGACTAAATTGCAGAAGCATAATTTTATTTTTTGGAGCACTTTTTCAGCAATATTAGCGGCTGAGGG
GCTCAGGATCTATTTTAAATATTTCAATTATTCTTCCATTTTCATATAGTGATCACAAGCAGGGGGTTCTGCAATTC
CGTTCAAATTTTTTGTCACTGGCTATAAAATCAGTATCTGCCTCTTTTAGGTGAGATGCTATGAGTAGCAAT
ACATACATATATTTTTTAAAGTTGATACTTCTTTATGACCCACAGTTGACCTTTATTTTCTTAAATACCAGGGCA
GTTGTGGCTCATTGTGCATTTTACTGTTGGCCCATTCATTTCTGTTTTTGGAAATTATGGTTTTGTATTTTCATGT
TTATTTACATTCATTTTTGTTTATTTCAGGGAAAGCTGATCTTTTTTCAAACCAGAAAAAAAATGAACTAGAT
ATGAAGTAGAGTTCATTAAATATCTTGCTATTGTGAGATTTTTTAAATATAGACTTAATTTTGTTTTTTAAAT
TGGAATACAATAAAGTACTACCTACATTTGAGTCAGTCACCACTCTTATTGTGCAGGTTAAGTACAAGTTAACTA
AAAATAAACTGTCCTCTCTGGTGCAACTCACAACCAAGATCAAGATTACCTTAAATTTTATTTGAATTTTTTAGA
TGTTTTGGTTGTCAAACCTGTAGGAACTTCACAACATTTAAGTCTTACTCTGTATGTAACAATCCATCATTCCAC
TTCCTACTGGTAATAACATAGAGCTGCCATTTTCTTTTACCATGCATCATCTCTTACAGTAGGCCTGGCAGA
TCATTTTTTAAAGATTATTCAACTACCAATCAGTAATGTTTTTAAACAGTACATTTGCTTTGAACTTGGAAAA
TGTGTTTCAGAAAGAAAAATGGAATTGAATTTTATTATACACTAATTCCTTGGATTTTGCACAGTTACCTAACGG
TTTTAGTCTGGAGTTAAATTCAGATGCATGGAATCCTGAAGGAAATGGTAGCTTTTAACTCTTTTGTGTGTGT
GTGAGTCTTTTAAATCAAGTACTGATTAATTAAGTACAACCTTTGAGATTTTAGTTTAACTCTTCAGAAGCC
AGTGTGAAATAGAATTGGTTATTCTCAAAGACTCAGGATAAACTAAATAAGCTATATATAGAGTACATTTAAAT
GTACAACACAAATTGGAAGTAAATAAGTTACAAGATAAGTTTACAGGGATATATTGCTTACAATTTTTAAAGG
CAGTTTGTTTTTTATGTGAATATGTTTCTTAGTGAAATTTTACATTCCTTTGTTTTTGAAGATTGGCGATATTTG
AAGAGTTAAAAATAGTACAGAAATGTGAAGTTGGTATCTCTAAATGTGTTGTACTTGACTTCTTTTTTATTTT
TTTTTATTTTTTTTACTACTTAGAATTTTACAATTTCTAATAAGATTGTTTCCAAGTCTCTCATGTGCAAGCTT
TAAAGGATGCACTCTTGCCATTTTATGTACTGGAAGATCATTGGTCAGATGAATACTGTGTCTGACAAAAATGTA
AACTGTATAAACTGAGGAACCTCAGCTAATCAGTATTACTTTGTAGATCACCATGCCCACCACATTTCAAACCTCA
AACTATCTGTAGATTTCAAATCCATTGTGTTTTGAGTTTGTGTTGCAGTTCCCTCAGCTTGCTGGTAATTGTGGTG
TTTTGTTTTTGTGTTTTGTTTTCAATGCAATGTGATGTAATATTCTTATTTTCTTTGGATCAAAGCTGGACTGGA
AATTGTATCGTGAATTATTTTTGTGTTCTTAATGTTATTTGGTACTCAAGTTGTAATAACGTCTACTACTGTT
TATTCCAGTTTCTACTACCTCAGGTGTCCTATAGATTTTTCTTCTACCAAAGTTCATTTTACAATGAAATTATA
TTTGCTGTGTGACTATGATTCCTAAGATTTCCAGGGCTTAAGGGCTAACTTCTATTAGCACCTTACTGTGTAAGC
AAATGTTACAAAAAAGACAAGAAAAAATCTCTGGGTTAAGAAAAATTGGCTTAAATGTATCCTTTGTTATTTT
AAATATATTGAGATATTTTAAATTTTACCCCATTTGAACCGATTTTATAGTATTTGTACCTATTTTGGTG
TTTTTGTCTTTATAGTAAATAAAAGTTTTTGAACAAAAAAAAGTCGACGCGG

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FIGURE 1103

MAAAAGNRASSSGFPGARATSPEAGGGGALKASSARAAAAGLLREAGSGGRERADWRRRQLRKVRSVELDQLPE
QPLFLAASPPASSTSPSPEPADAAGSGTGFPVAVPPPHGAASRRGAHLTESVAAPDSGASSPAAAEPGEKRAPA
AEPSPAAAPAGREMENKETLKGLHKMDDRPEERMIREKLKATCMPAWKHEWLERRNRGPVVVKP IPVKGDGSEM
NHLAESPGEVQASAASPASKGRRSPSPGNPSGRITVKSESPGVRRKRVSPVPFQSGRITPERRAPSPDGFSPYS
PEETNRRVNVKVMRARLYLLQQIGPNSFLIGGDSPDNKYRVFIGPQNCSCARGTFCIHLLFVMLRVFQLEPSDPML
WRKTLKNFEVESLFQKYHSKRSSRIKAPSRNTIQKFVSRMSNSHTLSSSSTSTSSSENSIKDEEEQMCPICLLGM
LDEESLTVCEDGCRNKLHHHCMSIWAECCRNRREPLICPLCRSKWRSHDFYSHELSSPVDSPSSLRAAQQQTVQQ
QPLAGSRRNQESNFNLTHTYGTQQIPPAYKDLAEPWIQVFGMELVGCLFSRNWNVREMLRRLSHDVSGALLLANG
ESTGNSGGSSGSSPSGGATSGSSQTSISGDVVEACCSVLMSVCADPVYKVYVAALKTLRAMLVYTPCHSLAERIK
LQRLLOPVVDITILVKCADANSRTSQLSISTLLELCKGQAGELAVGREILKAGSIGIGGVYVNLNCILGNQTESNN
WQELLGRLCLIDRLLEFFPAEFYPHIVSTDVSQAEPVEIRYKKLLSLLTFALQSINNSHSMVGKLSRRIYLSSAR
MVTTPVPHVFSKLLLEMLSVSSSTHFTMRMRLMAIADEVEIAEAIQLGVEDTLDGQQDSFLQASVPNNYLETTENS
SPECTIHLEKTGKGLCATKLSASSEDISERLASISVGPSSTTNYYYNNRATKANGSNKRQTPQSVFELLSFIS
FPINVSSLVNPFFFYPICTSWHCNRCLKHRLQGFIPCRIPASASPQTQRKFSLQFHRNCPENKDSKLSPVFTQSR
PLPSSNIHRPKPSRPTPGNTSKQGDPSKNSMTLDLNSSSKCDDSFGCSSNSSNAVIPSDETVFTPVEEKCRLDVN
TELNSSIEDLLEASMPSSDTTVTFKSEVAVLSPEKAENDDTYKDDVNHNNQCKEKEMEAEAEALAIAMAMSASQD
ALPIVPQLQVENGEDIIIIQQDTPETLPGHTKAKQPYREDTEWLKGQQIGLGAFSSCYQAQDVGTGTLMAVKQVT
YVRNTSSEQEEVVEALREEIRMMSHLNHPNIIIRMLGATCEKSNYNLFIEWMAGGSVAHLLSKYGAFKESVVINYT
EQLLRGLSYLHENQIIHRDVKGANLLIDSTGQRLRIADFGAAARLASKGTGAGEFQGQLLGTIAFMAPEVLRGQQ
YGRSCDVWSVGCAI IEMACAKPPWNAEKHSNHLALIFKIASATTAPSIPSHLSPGLRDVALRCLELQPDQDRPPSR
ELLKHPVFRTTW

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FIGURE 1104A

GTTTAGTGTTAACCTCAGCTACACTGAAGGAATAGACCTTAGTCCTCACAAGTATAAGTTCTAGCTTGGAAGCCT
GGGTTCTGCAGTAGCTGTGGAACCTTAAGCCTCTGAGCTCAGGGATGCAGAGGCATTGAGTTACTACCAAGGGCCT
GATCTTTTCTTTAGCAGGCATCTGTGTTAATTGTTTCAAAGGTGGTGATCAGTTTTACAGCCTATTATAAAGGA
GATTTTTGCCTACTATAAACTAATCCCCCTGAAAGAGTGAGTAAACATAACTTTTTGTGTGTTGACTTCCACAA
GGGAAGGAGTTGGCACTTACACTCTGACTTTTGATTGAGTCGTCCTTCTTGAGCCATTTTTGCAGGGGATCAGTT
TGGAGTGGGCGTTAACAATGTTATTCTTTTTTCTTCTCCAGAACACCTTCCACCATGACCACCTCAGCAAGTTC
CCACTTAAATAAAGGCATCAAGCAGGTGTACATGTCCCTGCCTCAGGGTGAGAAAGTCCAGGCCATGTATATCTG
GATCGATGGTACTGGAGAAGGACTGCGCTGCAAGACCCGGACCCTGGACAGTGAGCCCAAGTGTGTGGAAGAGTT
GCCTGAGTGGAAATTCGATGGCTCTAGTACTTTACAGTCTGAGGGTTCCAACAGTGACATGTATCTCGTGCCTGC
TGCCATGTTTCGGGACCCCTTCCGTAAGGACCCTAACAAGCTGGTGTTATGTGAAGTTTTCAAGTACAATCGAAG
GCCTGCAGGTGTGTTATAGCACAGCTATGGATACCCCTCCTCAATCTGTGAATGCTGTGAAGGGGAGGGAGAAGA
CATTCTGAAATCAGCATTGGGAAGACTAGGCAATTTACAGCACTATTTAAGAATCTGAGTGATTCTTTTCCCTGA
ACTTCTGCTTTGAGGAAGAGATAATATGGCCCATCTTTCTATGGTCTTCTCTGTTGGTTGCATAAAATAGCATTG
GATTTGTCCAGATCTGTTTGCCGGTCTTGGAGTCCCCAGTAACAGCCTTCTGCTGGAATGTAGGCCAGGACAA
ATGTAAACCAATGGACAAATGTTTCTCAAAAATTATAGAATGGCTCCAAGTGCTGAGAAATGAAGAATAAATCT
GACAACCAGAAGCAGCTGTCTTGTGAATAGAGGGTTAAGTGCTGGCATTGGTGCTTGGGAGGTGGCCAGAATG
CAGATAAGGTGAAAGTTGCCCTGTTCTAAATCCACTCCCATGTGACTTGGTTGTAACAGTGTAGTTAAACTG
AAGTCTTTCAGAGTCTTCTACAGATGTACAATTAACAGCTTCTCTCATTTTTCTGACTCGGTGATCCCAAGAAG
GCCTATACTGGGTGAGTTTCATACCATAGTGACACCTCAGTTGTATAGAATCCAAGGACTATTCTCCCATCAGCA
TCGGTATTACAGCATCTATGTCTTTAGATCCCTGATGGCGTATTATTGACTCTTTTTTCTAGAGACCAATTTGAGG
CACACCTGTAAACGGATAATGGACATGGTGAGCAACCAGCACCCCTGGTTTGGCATGGAGCAGGAGTATACCCCTC
ATGGGGACAGATGGGCACCCCTTTGGTTGGCCTTCCAACGGCTTCCCAGGGCCCCAGGGTAAGTCTCCTTGGGTT
AGAGGTGAAATTCCCAGAAGTGCTAACTGTGCAGGAATGCCCTTCCCAGGGATGGGAATGACTTTCAGAATCA
AGAAGCAAATAATACAGTAAAGGCGAAACAGCCCTCACATCACCAAAGTCCAAAATGGATATGAATATATAAA
GTAAGGTTTTAGGGGGAACGTTTGGCCCCACTGAAGCTGTGGTGAAGAGGAACCTCCCTATTGCCCTCCCCTGC
CCCGCACCTGCAGATGAAGGCAAGGATAGTGATTCAAGAGGGCAAGGCTTAAGGGCCTTCTGATCTCTGACTTTG
GGATTCTCTGGATTTCTTGACTCTTAGTGTTTTGTCTGATGCTTCTGTAGGTCCATATTACTGTGGTGTGGGAG
CAGACAGAGCCTATGGCAGGGACATCGTGGAGGCCATTACCGGGCCTGCTTGTATGCTGGAGTCAAGATTGCGG
GGACTAATGCCGAGGTGATGCCTGCCAGGTAAGTATAGCTCCAATCCATCAATGAAGAAGGGTAGGTAGGTGTA
CATAGGACTTTTGTAGTAAGGGCTGCTGATACACCACTCACTAACCCTAAACCTAAGAACGGGTGGAGTACAG
GTGAGAAGAGAACAGGTTTAGGAGATTCTGAGTTGGAGTGAGCAGTTAGCTTTGTTTAAATGGCCAAGCTTCTCG
TTTCTAGTGGGAATTTAGATTGGACCTTGTGAAGGAATCAGCATGGGAGATCATCTCTGGGTGGCCCCGTTTCAT
CTTGATCGTGTGTGTGAAGACTTTGGAGTGATAGCAACCTTTGATCCTAAGCCATTCTGGGAAGTGAATGG
TGCAGGCTGCCATACCAACTTCAGCACCAAGGCCATGCGGGAGGAGAATGGTCTGAAGTGAGTACCTTCTGCTGG
GGCCATCTTTAATCTCCTGTGGCAGAAACTTGGGAGGAGACTTAGCAATCTCTCAGCAAAGTCTCCTTTGCAGG
ATGACTTGCAAATATTTGCCAAAGATGAGTAACTTGACTTCTCAGTCTGGACGTACTTTAGGTGTTGACACTTG
CCTTCACATTCTCTCATTTTGTTCCTATTTGAAAAATACCAAATAATACTTCTGATTACAGTGATAAATATTTG
TTATAATTTATATAATATATATATTAGTCATATATCATTATATAAATATATATCGATATATATATTGTGACATATG
TCATGGTGACAGGGAAAAGTTGACAAATTCATGCATTTGAAAATCTTTAGAACTAAATTAGTAACAATACAGGC
ATGTGGATAAGCTTAATGCTTATGAGGGGGAGAAAGTTTCAAATGATTAGTCTTTTCAACAAACAGTAACCTTGT
ACTGCTTGTGCGGCCTGTTCTCACCCTGAGACACACAGGTAAGAAGATGCAGCCACTGCCCTCATGAAGTATT
TGTTCTACTGGTATCATATTTTGGTGCACCTTATTCTTGGCTCCATACCTGGAGACAAGGTTGGACTGCCATCTT
TTCTGTTTACTCTAGGTACATCGAGGAGGCCATTGAGAACTAAGCAAGCGGCACCAGTACCACATCCGTGCCTA
TGATCCCAAGGGAGGCTGGACAATGCCCGACGTCTAACTGGATTCCATGAAACCTCCAACATCAACGACTTTTC
TGCTGGTGTAGCCAATCGTAGCGCCAGCATACGATTCCCCGGACTGTTGGCCAGGAGAAGAAGGGTTACTTTGA
AGATCGTCGCCCCCTTGCCAACTGCGACCCCTTTTCGGTGACAGAAGCCCTCATCCGCACGTGTCTTCTCAATGA
AACCGGCGATGAGCCCTTCCAGTACAAAATTAAGTGGACTAGACCTCCAGCTGTTGAGCCCTCCTAGTTCTTC
ATCCCACTCCAACCTTCCCCCTCTCCAGTTGTCCCGATTGTAACCTCAAAGGGTGAATATCAAGGTCGTTTTT

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FIGURE 1104B

ITCATTCCATGTGCCCAGTTAATCTTGCTTTCTTTGTTTGGCTGGGATAGAGGGGTCAAGTTATTAATTTCTTCA
CACCTACCCCTCCTTTTTTTTCCCTATCAGTGAAGCTTTTGTGCTTAGTGGGGAGGAGGGTGGGGAGACATAAC
CACTGCTTCCATTTAATGGGGTGACCTGTCCAATAGGCGTAGCTATCCGGACAGAGCACGTTTGCAGAAGGGGG
TCTCTTCTTCCAGGTAGCTGAAAGGGGAAGACCTGACGTACTCTGGTTAGGTTAGGACTTGCCCTCGTGGTGGAA
CTTTTCTTAAAAAGTTATAACCAACTTTTCTATTAAAAAGTGGGAATTAGGAGAGAAGGTAGGGGTTGGGAATCA
AGAATGGCTTTGGTCTCTTGCTTGTGGGACTAGCCTGGCTTGGGACTAAATGCCCTGCTCTGAACACGAAGC
AGTATAAACTGATGGATATCCCTACCTTGAAAGAAGAAAAGGTTCTTACTGCTTGGTCTTGATTTATCACAC
AAAGCAGAATAGTATTTTTATATTTAAATGTAAAGACAAAAACTATATGTATGGTTTTGTGGATTATGTGTGTT
TGGTAAAGGAAAAAACCATCCAGGTCACGGGGCACCAAATTTGAGACAAATAGTCGGATTAGAAATAAAGCATC
ATTTTGAGTAGAGAGCAAGGAAGTGGTTCTTAGATGGTGATCTGGGATTAGGCCCTCAAGACCCTTTTGGGT
GGCCCTGCCCCACCCTCTGGAGAAGGTGGGCACTGGATTAGTTAACAGACAACACGTTACTAGCAGTCACTTG
TCCGTGGCTTTGGTTTTAAAGACACACTTGTCCACATAGGTTTAGAGATAAGAGTTGGCTGGTCAACTTGAG
TCTTACTGACAGAGGGGGTATTGGGGTTATTTTCTGGTAGGAATAGCATGTCACTAAAGCAGGCCTTTTGATA
TAAATTTTTTAAAAAGCAAATTATAGAAGTTTAGATTTTAAATCAAATTTGTAGGGTTTCTAGGTAATTTTTAC
AGAATTGCTTGTGTTGCTTCACTGTCTCCTACCTCTGCTCTTGGAGGAGATGGGGACAGGGCTGGAGTCAAACA
CTGTAAATTTGTATCTTGATGTCTTTGTTAAGACTGCTGAAGAATTATTTTTTCTTTTATAATAAGGAATAA
ACCCACCTTTATTCCTTCATTTCTATCTACCATTTTCTGGTTCTTGTGTTGGCTGTGGCAGGCCAGCTGTGGTTT
TCTTTTGCCATGACAACTTCTAATTGCCATGTACAGTATGTTCAAAGTCAAATAACTCCTCATTGTAAACAACT
GTGTAAGTGGCCAAAGCAGCACTTATAAATCAGCCTAACATAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 1105

MTTSASSHLNKGIKQVYMSLPQGEKVQAMYIWIDGTGEGLRCKTRTLDSEPKCVEELPEWNFDGSSTLQSEGSNS
DMYLVPAAMFRDPFRKDPNKLVLCEVFKYNRRPAGVL

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FIGURE 1106

GCCACAGTGCTCCGGATCCTCCAATCTTCGCTCCTCCAATCTCCGCTCCTCCACCCAGTTCAGGAACCCGCGACC
GCTCGCAGCGCTCTCTTGACCACTATGAGCCTCCTGTCCAGCCGCGCGGCCCGTGTCCCCGGTCCCTTCGAGCTCC
TTGTGCGCGCTGTTGGTGCTGCTGCTGCTGACGCAGCCAGGGCCCATCGCCAGCGCTGGTCCTGCCGCTGCT
GTGTTGAGAGAGCTGCGTTGCGTTTGTGTTTACAGACCACGCAAGGAGTTCATCCCAAAATGATCAGTAATCTGCAA
GTGTTGCGCCATAGGCCCACAGTGCTCCAAGGTGGAAGTGGTAGCCTCCCTGAAGAACGGGAAGGAAATTTGTCTT
GATCCAGAAGCCCCCTTTCTAAAGAAAGTCATCCAGAAAATTTTGGACGGTGGAACAAGGAAACTAGATTAAAGA
GAAATGAGCACGCATGGAAAAGTTTCCAGTCTTCAGCAGAGAAGTTTCTGGAGGTCTCTGAACCCAGGGAAGA
CAAGAAGGAAAGATTTTGTGTTGTTTGTGTTTATTTGTTTTCCAGTAGTTAGCTTTCTTCCTGGATTCTCACTT
TGAAGAGTGTGAGGAAAACCTATGTTTGCCGCTTAAGCTTTCAGCTCAGCTAATGAAGTGTGTTAGCATAGTACCT
CTGCTATTTGCTGTTATTTTATCTGCTATGCTATTGAAGTTTGGCAATTGACTATAGTGTGAGCCAGGAATCAC
TGGCTGTTAATCTTTCAAAGTGCTTGAATTGTAGGTGACTATTATATTCCAAGAAATATTCCTTAAGATATTA
ACTGAGAAGGCTGTGGATTTAATGTGGAATGATGTTTCATAAGAATCTGTTGATGGAATACACTGTTATCTT
CACTTTTATAAGAAATAGGAAATATTTAATGTTTCTTGGGGAATATGTTAGAGAATTTCTTACTCTTGATTGT
GGGATACTATTTAATTATTTCACTTTAGAAAGCTGAGTGTTTACACCTTATCTATGTAGAATATATTTCTTAT
TCAGAAATTTCTAAAAGTTTAAGTTCTATGAGGGCTAATATCTTATCTTCCTATAATTTTAGACATTCTTTATCTT
TTTAGTATGGCAAACCTGCCATCATTTACTTTTAACTTTGATTTTATATGCTATTTATTAAGTATTTTATTAGGA
GTACCATAATTCTGGTAGCTAAATATATATTTTAGATAGATGAAGAAGCTAGAAAACAGGCAAATTCCTGACTGC
TAGTTTATATAGAAATGATTCTTTTAGTTTTTAAAGTAAAGGCAAACCTTAACAATGACTTGTAAGTCTGAAAGTT
TTGGAAACGTATTCAAACAATTTGAATATAAATTTATCATTTAGTTATAAAAAATATATAGCGACATCCTCGAGGC
CCTAGCATTTCTCCTTGGATAGGGGACCAGAGAGAGCTTGGAAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1107

MSLLSSRAARVPGPSSSLCALLVLLLLLTQPGPIASAGPAAAVLRELRCVCLQTTQGVHPKMISNLQVFAIGPQC
SKVEVVASLKNGKEICLDPEAPFLKKVIQKILDGGNKEN

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FIGURE 1108

GTTCATTTCTAAATGCTAATCCTTTTCTTTCTTCTGCTCTATGAGTAGGAACCTCTCTCTCCATCCCTGTAGA
AICTCTTGGACATGTTTATCTCATGCTTATGGGGTCCCCATTTCTTGGAGTGGGATTGACATTGGTGGATTCTGC
TTCAGTGTATCCTTCTTGCAGTCTTATTTGCATGCATGAGTCAACTGTGTGCATCCCATTGTGCTTTCCCCAGGC
CAGTCTCTCATGCCCCATTCCATTTCCCCTGCCCTATAGGCCTCCTTTTCATGTACTCTGCCCCAACGGTTTTGGGGG
ACAATCTGGGCCAGAAGGGGAGCGCAGCTTGGCACCCCTGATGCCAGCATCCTCATCAGCAATGTGTGCAGCAT
CGGGGACCATGTGGCCCAGGAGCTTTTTTCAGGGCTCAGATTTGGGCATGGCAGAAGAGGCAGAGAGGCCTGGGGA
GAAAGCCGGCCAGCACAGCCCCCTGCGAGAGGAGCATGTGACCTGCGTACAGAGCATCTTGGACGAATTCCTTCA
AACGTATGGCAGCCTCATACCCCTCAGCACTGATGAGGTAGTAGAGAAGCTGGAGGACATTTTCCAGCAGGAGTT
TTCCACCCCTTCCAGGTGAGGCTTGAAAGCCCTCCTTGAAAGAAGGGCTGGGGCCTTGGGGATGTGGAGAGAATA
CTGCTGCCTTTTCTTCCATAGGGCTGTAGTTGGGGAGGAGGAAGCTAGAGCTGAAGGGGAGGACTCTGCAGGCAG
GTGCCAAATCCTTGGAAGCTGATGGGAGAGTCTTTACCTGGGACCCTGAAATGTTCTACCTGAGTAGTCATGTTT
ATCTTTCTGGGGAGTGGGCCTTTCGCAGGTCCTCAGAAGGACCCATCATGAGCCAGAAAAAGGGAGTCAGTTAG
AATTTGTATTCCAGGGAGTAGTAGGTATTTCTGTGTGCCCCAGCTGCATCATCTTTTGTGTGACTCCACCCTTGG
CCTACTCAGGAAGGGCCTGGTGTTCAGCTGATCCAGTCTTACCAGCGGATGCCAGGCAATGCCATGGTGAGGGG
CTTCCGAGTGGCTTATAAGCGGCACGTGCTGACCATGGATGACTTGGGGACCTTGATGGACAGAACTGGCTCAG
TGACCAGGTGAGAAAGGGTAGAGAAACAGGCCTGAGAGGGGATTGAGGGAGCAGGGTGTCTGGGGCCCTCTGCAT
GGGGGAGCCCTGTACCCATGCCGCACCCTCCATGGCAAGCTGCCTCCCATCTTCTCCCCAGGTGATGAACATGTA
TGGAGACCTGGTCATGGACACAGTCCCTGAAAAGGTAGGCCCAACCAGATAGGTCAGTACCCAGAGGAACCTCTG
CAGTTTTAAGCAGCTTTTTAAGCTCCTTTTCATCTCTTTTCAATTTTACACAGAGAGGGTCTCTGTTTCAGGGAGAGA
GGTGGTAGTGGTAGTGATTAATTTCAAATCCGTAATCTTGGGCTCTGGATTTATCAGTTGTTTTCTTTCTGCC
AGTATTTAGTGTTCCTATGGCCAGCCCCAAGGATTGGGATGGGTTCTATTGTAACATTGTAACAAGA
TTT

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FIGURE 1109

MSRNSLSIPVESLGHVYLMMLGSPFLGVGLTLVDSASVYPSCGLICMHESTVCIPLCFPQASLSCPFHFPCPIGL
LSCTLPNGFGGQSGPEGERSLAPPDASILISNVCSIGDHVAQELFQGSDLGMAEEAERPGEKAGQHSPLREEHVT
CVQSILDEFLQTYGSLIPLSTDEVVEKLEDIFQQEFSTPSR

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FIGURE 1110

CCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGGAAGATGCGGCTGGGTTCAAAACCGTGGAACCTCT
GGAGTATTACAGGAGATTCTGAAAGAGAAGTCCGCTCCTGATGGAAGAGAAGTGGTGAATTCAGAACCAAC
TGTCAACATCGGTTCAATTAGTACCGCAGATGGTTCTGCTTTAGTGAAGTTGGGAAATACTACAGTAATCTGTGG
AGTTAAAGCAGAATTTGCAGCACCATCAACAGATGCCCTGATAAAGGATACGTTGTTCCATAATGTGGATCTACC
CTGTGTTCATCGAGATTCCGGTCTGGACCTCCTGGAGAAGAGGCCCAAGTGGCTAGCCAGTTCATTGCAGA
ATTGAAAATTCACAGATAATTCAGAAAGAGGACTTATGCATTTCTCCAGGAAAGCTTGTCTGGGTTCTATA
TGATCTCATTTCGCTCGACTACGATGGAAACATTTTGGATGCCTGCACATTTGCTTTGCTAGCGGCTTTAAA
AAATGTACAGTTGCCTGAAGTTACTATAAATGAAGAACTGCTTTAGCAGAAGTTAATTTAAAGAAGAAAAGTTA
TGAATATTAGAACTCATCCAGTTGCAACTTCCTTTGCTGTGTTTGTATGACACTTTGCTTATAGTTGACCCTAC
AGAGGAGGAACATCTGGCAACAGGAACCTTAACAATAGTAATGGATGAGGAAGGCAAACCTCTGTTGTCTTCA
ACCAGGTGGAAGTGGGCTAACTGGAGCTAACTTCAGGACTGTATGAGCCGAGCAGTTACAAGACACAAAGA
TAAAAAACTGATGGATGAAGTAATTAAGAGTATGAAACCCAAATAAACAGCCACCACATTTTCAAAACAGAT
TAAAAAATTGTATTTGTTAACTGTGCACAAACGTTTATACTAAATAAATATCAAACTACAAAAA
AAAAAAGGGCGGCCGCCCTTTTTTTTTTTTTTAAATATATACACAAAACTTAGTTTACAGCAAGGCTTCAT
GATATACACCAATTCCAAAATAAAACAATCAAAATGGTCCAGGTGTAGAATGCCAGATTCCTTTTATCATCTGCGA
GAAAAGAGAAGCAGGATGAGGAAGAGTGAGGGAAGGCGGGGACAGGCTCTGCCAGAAGAGCTGCCGCCCTCCTG
GCACAGCAAACGCTCCAGGCCTGGGCCCTGTTTATCTGGAGTCGGAGGGAGACTCCCATCGGCCGCTTTGGGA
CTGAAAGGCCCAAGGCTGTACCAGCTCCCGGAAGAGAGGGAGGCAGTCTTGTTTTGTCTGTTGGGAAGGGGTTG
GGTGGAGAAAAAGATTACAGGCACATCACCACAGGGGACCAGAAGTGGAGAGAAGACAGAGAGTTCTGCCGAGGC
CTTGGTCTTCTGTCTTTCCAATCTTGCTTCCCCAACTCTCCCTGCTTCTTGGGACCATCGGTAGGGGTGGGGA
GCAGCAGTCAACACAGCCCACTGGGAAGGGAGGCACAAGCAGCACTCCAGCTTCCCAGTGCTGCCCTCACACTCA
CCTGGACAGGTGAGGGGACACAGGATGAAAGCCATGGCCCAATCTAAGAGCAAGACAAGTGAAAAGTGAGTACTC
TCACTGTGTACCCAGCATAGGAATAGTGAAACCTGCTACAACCTGGAGGCTGCGTTCCCATGACTTCTCCTCCG
CTCTCCTTGTCTGGGACTTGCTGGTTCCAGGGGTGCATATAGGGAGGGGGCGGGGGCCACAACCCCCGAGACGGT
GAGGACAGGCTTCCGACCCCCCTGTAAGCCAGATCCAGTGGGATGTGGGAGAGCTGGGCGGTACCTTCCCTCTT
GCCCCGGTGGCCCATCACACTCACACTGCACCCTGGGCAAGCAGTTCCCTGAACCCCCAAGGGGCTCACAACCCT
TAAAGCTGGAGCTTAAAGCCTCCTGGCTTAGTACAAGCAGGAGAACGCCTCACCTTCCACTCCTGCTTGTCTCCT
TTGCTCTACCTGGCTCCCCTGCCCGGAGGGAAAAATATTTACACAGAGTAGGAGACAAATTGGCTGAAAAGCTC
TGGACTGTCTTTAACTTATTTTAAACAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1111

MAAGFKTVEPLEYYRRFLKENCRLPDGRELGEFRTTTTVNIGSISTADGSALVKLGNTTVICGVKAFAAPSTDAPD
KGYVVPNVLDLPPLCSSRFRSGPPGEEAQVASQFIADVIENSQIIQKEDLCISPGKLVWVLYCDLICLDYDGNILD
ACTFALLAALKNVQLPEVTINEETALAEVNLKKKSYLNIRTHPVATSFVFDLTLIVDPTGEEHHLATGTLTIV
MDEEGKLCCLHKPGGSLTGAKLQDCMSRAVTRHKEVKKLMDEVIKSMKPK

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FIGURE 1112

TCTCTCTCGGCGTTTCCGCTGTCAGGGCCTGCGGTGTGACTCGCGGGCTCAGCTGGTCCGGCCGTAGCACCTCCG
CGCCGTGCGCCATGTCGCGGTTTTCACCACCGGTTTCGGACAGCGAGTCCGAGTCGTCCTTGTCGGGGGAGGAGCT
CGTCACCAAACCTGTCGGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGCAGTGCCAAGGACAAGAGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAA
GATTCGTGATGTACCAAGTGCCTGGAAGAGTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGT
GGACAAAGAAGGTGTCCCCCGGTTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGA
AGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGAGCACCTTGGCTCAGAAGATCCGAAA
ATACAACCGTGATTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCCGAGCAGTCTGCGGATGAAGATGCTGA
GAAAAATGAGGAGGATTGAGAAGGCTCTTCAGATGAGGATGAGGATGAGGACGGAGTCAGTGTGCTGCACTTTCTT
GAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTCTCAAAAAGATGGATGATGAAGATGAGGACTC
AGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGG
GAAACAAACCGCGCTGGCCTCAAGATTTCTTAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAA
GAAACGGGAGGACAAAGCTAAGAAGAAGCAGCAGGAAATCCAAGCGCCTGGATGAGGAGGAGGAGGACAATGA
AGGCGGGGAGTGGGAAAGGGTCCGGGGCGGAGTGCCGTTGGTTAAGGAGAAGCCAAAAATGTTTGCCAAGGGAAC
TGAGATCACCCATGCTGTTGTTATCAAGAACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAACCTGATCG
TGCTGCCCAGATTGAGCTGCTGCAACTGCTGGTTTCAAGATTGAGCGGAAAAACAACCTGGGAGAGGGCGTCAATTGT
CAAGATCAAGTTCAATATCATCGCCTCTCTCTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGAT
GTGGGGGAAGTGCCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTGCAATCCCAACATTTTTGTTGGAGA
GAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGCGTGTCCGTGGCTGCATCCTAACTCT
GGTGAACGAATGGATGAAGAATTTACCAAAATAATGCAAAATACTGACCCTCACTCCCAAGAGTACGTGGAGCA
CTTGAAGGATGAGGCCAGGTGTGTGCCATCATCGAGCGTGTGCAGCGCTACCTGGAGGAGAAGGGCACTACCGA
GGAGGTCTGCCGCATCTACCTGCTGCGCATCCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACA
GCTGACCCCGCCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
GATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCA
CATCTACCACCATGCTCTGCACTCGCGCTGGTACCAGGCCCGCGACCTCATGCTCATGAGCCACTTGCAGGACAA
CATTGAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGGTGCAGCTGGGCATCTGTGCCCTTCCG
CCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTCGAGTGGCCGAGCCAAGGAGCTTCTGGG
CCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGAAGGTGGAGCGGCGCCGTCAGGTCCC
CTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGTCTGCCATGCTCCTGGAGATCCCCCTA
CATGGCCGCCCATGAGAGCGATGCCCCGCCGACGCATGATCAGCAAGCAGTTCCACCACCAGCTGCGCGTGGGCGA
GCGACAGCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTCTGCTGCCCTCCAAGGCCATGAAGATGGG
TGACTGGAAGACCTGTACAGTTTTATCATCAATGAGAAGATGAATGGGAAAGTGTGGGACCTTTTCCCCGAGGC
TGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTCTTACCTACAGCAG
TGTCTATGACTCCATCAGCATGGAGACGCTGTGACATGTTTGAGCTGGATCTGCCCCTGTGCACTCCATCAT
CAGCAAAATGATCATTAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAACACAGACAGTGGTGTGACCCGCAC
TGAGCCCCTGCCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAACGAACG
GGTGTGTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGTCTCAGACGGCCTACTGAGCTCTCCACTCTGTTTCCCGCCT
GGGCCATCCAACCTTGAAGTCTTAAACCACACCTCAGTCACTAAAGGTCTGTTTAAAGTTGTTCTGGTTGATTGC
TTGTTGCCACAAAGGTGTGTTGAGCCATTCAATTTGCTGATTATACTTCTGAGCTGCTACCACATGACAGACACA
AGGCTCAGATGAAGAGGTGAATTGAAC

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FIGURE 1113

MSRFFTTGSDSESESSLGSEELVTKPVGGNYGKQPLLLSEDEEDTKRVVRS AKDKRFEELTNLIRTIRNAMKIRD
VTKCLEEFELLGKAYGKAKSIVDKEGVPRFYIRILADLEDYLNELWEDKEGKKKMKNNAKALSTLRQKIRKYNR
DFESHITSYKQNPEQSADEDAEKNEEDSEGSSDEDEDEDGVSAATFLKKKSEAPSGESRKFLKKMDEDEDESDS
EDDEDWDTGSTSSSDSDEEEEGKQTALASRFLKKAPTDEDKAAEKKREDKAKKKHDRKSKRLDEEEDNEGGE
WERVRGGVPLVKEKPKMFAKGTEITHAVVIKKLNEILQARGKKGTDRAAQIELLQLLVQIAAENNLGEGVIVKIK
FNIIASLYDYNPNLATYMKPEMWGKCLDCINELMDILFANPNIFVGENILEESENLHNADQPLRVGCIITLVER
MDEEFTKIMQNTDPHSQEYVEHLKDEAQVCAIIERVQRYLEEKGTTEEVCRIYLLRILHTYYKFDYKAHQRLTP
PEGSSKSEQDQAENEGEDSAVLMERLCKYIYAKDRTDRITCAILCHIYHHALHSRWYQARDLMLSHLQDNIQH
ADPPVQILYNRTMVQLGICAFRQGLTKDAHNALLDIQSSGRAKELLGQGLLLRSLQERNQE QEKVERRRQVPFHL
HINLELLECVYLVSAMLLEIPYMAAHESDARRRMISKQFHHQLRVGERQPLLGPPESMREHVVAASKAMKMGDWK
TCHSFIINEKMNGKVWDLFPEADKVRTMLVRKIQEESLRTYLFTYSSVYDSISMETLSDMFELDLP TVHSIISKM
IINEELMASLDQPTQTVMHRTEPTAQQNLAQLAEKLGSLVENNERVFDHKQGTYGGYFRDQK DGYRKNEGYMR
RGGYRQQQSQTAY

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FIGURE 1114A

GAGATATCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGAAAGGTGGAAGTGAACGATCGTCAGGGTTTTG
TGCCGGCTGCGTACGTGAAGAAATTGGACCCCGCCAGTCAGCCTCCCGGGAGAATCTCCTGGAGGAGCAAGGCA
GCATAGCACTGCGGCAGGAGCAGATTGACAATCAATATCATTCTCTGCTGGAACCTGGGTGAGAAGCGTAAAGGCA
TGTTGGAGAAGAGTTGCAAGAAGTTTATGTTGTTCCGTGAAGCGAATGAACTACAGCAATGGATCAATGAGAAGG
AAGCCGCTCTGACAAGTGAGGAGGTGGGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAGTTTGATGACT
TCCAGAAGGACCTGAAGGCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAG
GTCTTATGGCAGAGGAGGTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCAGGGATGAACTGATT
CCAAGACAGCCTCCCCGTGGAAGTCTGCTCGTCTGATGGTTACACCGTGGCCACCTTTAATTCCATCAAGGAGC
TGAATGAGCGCTGGCGGTCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTAC
AGAGGTTCCACAGAGATGCTGATGAAACCAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATT
ATGGACATGATCTCGCCAGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCG
GTGACAAGGTAACTCCCTTGGTGAAACAGCAGAGCGCTGATCCAGTCCCATCCCGAGTCAGCAGAAGACCTGC
AGGAAAAGTGACAGAGTTAAACCAGGCCTGGAGCAGCCTGGGGAAACGTGCAGATCAGCGCAAGGCAAAGTTGG
GTGACTCCACGACCTGCAGCGCTTCCTTAGCGATTTCCGGGACCTCATGTCTTGATCAATGGAATACGGGGGT
TGGTGTCTCAGATGAGCTAGCCAAGGATGTACCGGAGCTGAGGCATTGCTGGAGCGACACCAGGGACACCGGA
CAGAAATCGATGCCAGGGCTGGCACTTTCCAGGCATTTGAGCAGTTTGGACAGCAGCTGTTGGCTCACGGACACT
ATGCCAGCCCTGAGATCAAGCAGAACTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTT
AGCGCAGGATGATGCTGGATCAGTGCCCTTGAAGTGCAGCTGTTCCATCGGGACTGTGAGCAAGCTGAGAAGTGA
TGGCTGCCCCGGGAGGCCTTCTTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAA
AACATGAAGACTTTGACAAAGCGATTAACGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCCTTTGCCGACCAGC
TCATCGCTGCCGGCCATTATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCTTGGACAGGTGGCGACGTC
TGAAAGCCCAGATGATTGAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCTCCAACAGTTTACGCCGGGATGTGG
ATGAGATTGAGGCTTGGATCAGTGAAAAATTGCAACAGCGAGTGATGAGTCGTACAAGGATCCCAACATCC
AGAGCAAGCACCAGAAGCACCAGGCTTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCG
ACATGGGCAACTCCCTCATTGAACGTGGAGCCTGTGCCGGCAGTGAGGATGCTGTCAAGGCCCGCCTGGCTGCCT
TAGCTGACCAGTGGCAGTTCTTGGTGCAAAAGTCAGCGGAAAAAGGCCAGAACTGAAAGAAGCCAACAAGCAGC
AGAACTTCAACACAGGGATCAAGGACTTTGACTTCTGGCTGTCTGAGGTGGAGGCCCTGCTGGCATCCGAAGATT
ATGGCAAAGACCTGGCTTCTGTGAACAACCTGCTGAAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATG
AGGATCGCTGAAGGACCTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCCTTCGACACCTCCCAAGTAA
AGGACAAGAGGGACACCATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCTCCCGGCGAGCCAAGCTGA
ATGAATCCCATCGCTGCACCAAGTTCTTCCGGGACATGGATGACGAGGAGTCTTGGATCAAGGAGAAGAAGCTGC
TGGTGGGCTCAGAGGACTACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAGCGGCTGGAAG
CAGAACTGGCTGCGCATGAGCCGGCTATTGAGGCTGTCTGGACACTGGCAAGAAGCTGTCCGATGACAACACCA
TCGGGAAAGAGGAGATCCAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAAGAGCTGAAGCAGCTGGCAGCTG
CCCGGGGTCAGCGGCTGGAAGAGTCCTTGAATATCAGCAGTTTGTAGCCAATGTGGAAGAGGAAGAAGCCTGGA
TCAATGAGAAAATGACCCTGGTGGCCAGCGAAGATTATGGCGACACTCTTGCCGCCATCCAGGGCTTACTGAAGA
AACATGAAGCTTTTGAGACAGACTTCACCGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACC
TCATTAAGAAGAACAATCACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCCTGAACGGGAAAGTGTGAGACC
TGGAGAAAGCTGCAGCCAGAGAAAGGCGAAGCTGGATGAGAACTCGGCCTTCCTTCAGTTCAACTGGAAGGCGG
ACGTGGTGGAGTCTTGGATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTG
TGCAGACGCTCCTCACCAAACAGGAAACTTTTGACGCTGGGCTGCAGGCCTTCCAGCAGGAAGGCATTGCCAACA
TCACTGCCCTCAAAGATCAGCTTCTCGCCGCCAAACACGTTTCACTCCAAGGCCATCGAGGCCCGGCACGCCTCCC
TCATGAAGAGGTGGAGCCAGCTTCTGGCCAACTCAGCCGCCCGCAAGAAGAAGCTTCTGGAGGCTCAGAGTCACT
TCCGCAAGGTGGAGGACCTCTTCTGACCTTCGCCAAAAAGGCTTCTGCCTTCAACAGCTGGTTTGAAGATGCAG
AGGAGGACTTAAACAGACCCCGTGCCTGCAACTCCTTGAAGAAATCAAAGCTTTGCGCGAGGCCACGACGCCT
TCCGCTCCTCCCTCAGCTCTGCCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCC
GCGTAGCCTCCAACCCCTACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAAATCA
TCAAGGAGAGGGAGCTGGAGCTGCAGAAGGAGCAGCGCGGCAGGAGGAGAACGACAAGCTGCGCCAGGAGTTTG

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FIGURE 1114B

CCCAGCACGCCAACGCCTTCCACCAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCCTGTATGGTGG
AAGAGTCGGGGACCCTCGAATCCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTC
AGCTCAAAAAGATCGAGGACCTGGGGGCGCCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACA
GCACCGTGGGCCTCGCCCAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGC
AGATCCAGGCCAGGAACACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTCAGCATGATGTTTAAACACTTTG
ACTAGGACAAGTCTGGCAGGCTGAACCATCAGGAGTTCAAATCTTGCCTGCGCTCCCTGGGCTATGACCTGCCCA
TGGTGGAGGAAGGGGAACCTGACCCTGAGTTTCGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATG
TCTCCTTGCAAGAATACATGGCTTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGA
GCGCCTTCCGGGCCCTCTGCTCAGAGGGAAAGCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGG
AACAAGCCGACTACTGCGTCTCCACATGAAGCCCTACGTGGACGGCAAGGGCCGCGAGCTCCCCACCGCGTTTCG
ACTACGTGGAGTTCACCCGCTCGCTTTTCGTGAAGTGAAGCCACTCCCTGGGTCACCCACCCCTCGCTGCTTGCCC
TGCGTCGCCTTGCTGCATGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGG
AATAAGACTTAGGAGAATATGGTGCTTCACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGGA
CCCAGATCTGTGTCTTGAAGCAGCTGCCCTCATTCGACTTCAGAAAATCGAAGCAGCTGGCTCCTCCCCCTTGTT
CTCTCTCCACCCCTCCCCCAAATCTGTTTTTCATGTAAAAGACAAATAAATGATGACTTCCCCCAAAAAAAAAAA
AAAAAAAC

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FIGURE 1115

GCGACTGTCTCCGCCGAGCCCCGGGGCCAGGTGTCCCGGGCGCGCCACGATCGCGCCGCGGCTGTGGCTCCTCC
TGGCCGCGCAGCTGACAGTTCTCCATGGCAACTCAGTCCTCCAGCAGACCCCTGCATACATAAAGGTGCAAACCA
ACAAGATGGTGATGCTGTCTGCGAGGCTAAAATCTCCCTCAGTAACATGCGCATCTACTGGCTGAGACAGCGCC
AGGCACCGAGCAGTGACAGTCACCACGAGTTCTGGCCCTCTGGGATTCGCGAAAAGGGACTATCCACGGTGAAG
*TTTGGACAGGAGAAGATAGCTGTGTTTCGGGATGCAAGCCGGTTCATTCTCAATCTCACAAGCGTGAAGCCGG
AGTGGCATCTACTTCTGCATGATCGTCGGGAGCCCCGAGCTGACCTTCGGGAAGGGAAGTCAAGCTGAGTG
TIGATTTTCCTTCCCACTGCCCAGCCCACCAAGAAGTCCACCCCTCAAGAAGAGAGTGTGCCGTTACCCA
GAGCAGAGACCCAGAAGGGCCCACTTTGTAGCCCCATCACCCCTGGCCTGCTGGTGGCTGGCGTCCTGGTTCTGC
TTTCCCTGGGAGTGGCCATCCACCTGTGCTGCCGGCGGAGGAGAGCCCGGCTTCGTTTTCATGAAACAATAA
ACATCCACTGGAGAAATGTTCCAGAATGGACTACTGAATATACAGGCCTCAAGGGGAAGGTATATCAGGAA
GTGTCCTCCCAATGCCTGCATGGATACTACAGCAATACTACAACCTCACAGAAGCTGCTTAACCCATGGATCC
*AACATAGGCAAGAAGCACAGGTCCTGATGAGTGGATCTTTACTACTTTTACCAGATTCTCCCTCGCTCAG
CATCCTCCACACACCCAGCAGAGACTTCTCTGCCACCATCAACCCCCCAAGTCATAGGGGGCTCAAGTTCTG
CTGGTGAGCTGTGGCCCCCATCCTTGTGAACCCCAAAGTGTCCCCTTGTGGAACCAAATGTATCCATCTTGA
ATAAATTTGCCCAAATCCTAAAGACCGGGAAAAGGGAACCATTG

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FIGURE 1116

MRPRLWLLLAQLTVLHGNSVLQOTPAYIKVQTNKMVMLSCEAKISLSNMRIYWLRQRQAPSSDSHHEFLALWDS
AKGTIHGEEVEQEKIAVFRDASRFILNLTSVKPEDSGIYFCMIVGSPELTFGKGTQLSVVDFLPTTAQPTKKSTL
KKRVCRLPRPETQKGPLCSPITLGLLVAGVLVLLVSLGVAIHLCCRRRRARLRFMKQLRLHPLEKCSRMDY

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FIGURE 1117A

GTACTCTCGCGGTATTTGTCCCGACTCTCGCGGGGTTTAGCGTGGCATTGGGAGGCCCGCCTGGGGGAGGAGAC
GGCGTTCCGTTAGCGGCGTTGGGGTTTGGCTGCAGTGGCAGTGCTTTCTCTTCTGCTCACGGGGACCCGCTCAGG
CTGGAGGCCAGCCAGCTCTTGCCGCCACCTCGGTTCGCGATGGGGGCGCAGGACCGGCCGAGTGCCACTTCGACA
TCGAGATCAACCGGGAGCCGTTGGTTCGCATTATGTTTCAGCTCTTCTCAGACATATGTCCAAAAACATGCAAAA
ACTTCCTTTGCTTGTGCTCAGGAGAGAAAGGCCTTGGGAAAAACAACCTGGGAAGAAGTTATGTTATAAAGGTTCTA
CGTTCCATCGTGTGGTTAAAAACTTTATGATTTCAGGGTGGGGACTTCAGTGAAGGTAATGGAAAAGGTGGAGAAT
CAATTTATGGTGGATATTTTAAAGATGAAAACCTTTATTCTCAAACATGACAGAGCGTTCTTTTATCAATGGCAA
ATCGAGGGAAACATAACCAATGGTTCCAGTTTTTTCATTACCACAAAAGCCTGCTCCACACCTGGATGGGGTGCATG
TAGTCTTTGGACTGGTTATTTCTGGTTTTGAAGTAATCGAACAAATTGAAAACTGAAGACCGATGCTGCAAGCA
GACCATATGCAGATGTGCGAGTTATTGACTGTGGAGTACTTGCCACAAAATCAATAAAAGATGTTTTTGGAGAAA
AAAGGAAGAAACCAACTCATTGAGAAGGCTCGGATTCTCTTCCAATTCTCTCTTCTTTCAGAATCATCTTCAG
AAAGTGAACCTGAACATGAGAGAAGCAGAAGGAGGAAACATAAGAGGAGGCCAAAAGTTAAACGTTCTAAAAAGA
GGCGAAAGGAAGCAAGCAGTTGAGAAGAGCCAAGGAATAAACATGCAATGAACCCAAAAGGTCACTCTGAGAGGA
GTGATACCAATGAAAAAGGTGAGTTGATTCCAGTGCTAAAAGGGAAAAACCTGTGGTCCGCCAGAGAGATTCTC
CTCCAGTGCCTGAGAACCGATTTTTACTGAGAAGAGATATGCCTGTTGTTACTGCAGAACCTGAACCGAAGATTCT
CTGATGTTGCACCCATTGTAAGTGATCAGAAACCATCTGTATCAAAGTCTGGACGGAAGATTAAAGGAAGGGGCA
CAATTCGCTATCACACACCTCCAAGATCAAGATCCTGTTCTGAGTCAGATGATGATGACAGCAGTGAAACTCCTC
CTCACTGGAAAGAGGAAATGCAGAGATTAAGAGCATATAGACCACCTAGTGGAGAAAAATGGAGTAAAGGAGATA
AGTTAAGTGACCCCTGTTCAAGCCGATGGGATGAAAGAAGCTTGCTCTCAGAGATCCAGATCATGGTCTATAATG
GATATTATTTCAGACCTTAGTACAGCAAGACACTCTGGCCACCATAAAAAACGCAGAAAAAGAAAAAAGGTTAAGC
ATAAAAAAGAAAGGGAAAAAGCAGAAACACTGCAGAAGACACAAACAAACAAAGAAGAGAAGGATTCTTATACCGT
CTGACATAGAATCCTCAAAATCTTCCACTCGAAGAATGAAATCCTCTTGTGATAGAGAAAGGAGTTCTCGTTCTT
CCTCATTGTCTATCTCATCACTCATCAAAGAGAGACTGGTCTAAATCTGATAAGGATGTCCAGAGCTCTTTAACCC
ATTCCAGCAGAGACTCATACAGATCAAAATCTCACTCACAGTCTTATTCTAGAGGAAGCTCAAGATCAAGGACTG
CGTCAAAGTCCTCATCACATTCTCGAAGTAGATCAAAGTCCAGATCTAGTTCCAAGTCTGGGCACCGAAAGAGAG
CATCAAAATCACCAAGAAAAACAGCTTCTCAGTTAAGTGAAAAATAAACAGTTAAAAACAGAACCTTTAAGAGCAA
CCATGGCACAAAATGAAAATGTAGTAGTACAACAGTTGTAGCAGAAAAATATTCTGTAAATACCACTGAGTGACA
GTCCCCCCCCCTTCAAGATGGAAGCCTGGACAGAAACCTTGGAAGCCCTCTTATGAGCGAATTCAGGAAATGAAAG
CTAAAAACAACCCATTTGCTACCCATCCAAAGCACTTACAGTTTAGCAAAATATTAAAGAGACTGGTAGCTCATCAT
CCTACCATAAAAGAGAAAAAATTTCGGAAGTGATCAGAGCACTTATTCAAAATACAGTGATAGAAGTTTCAGAAA
GCTCACCAGGTCAAGGAGCAGATCTTCTAGGAGTAGATCTTATTCCAGATCATATACAAGATCACGTAGTCTAG
CTAGTTCACATTCAAGGTCTAGGTCTCCATCATCTAGATCTCATTACGAAATAAATACAGTGATCATTACAGT
GTAGTAGATCATCTTCATATACTTCTATTAGCAGTGATGATGGAAGGCGAGCTAAGAGGAGACTTAGATCCAGTG
GGAAAAAAATAGCGTTTCACATAAAAAGCATAGCAGCAGCTCTGAAAAGACACTTCACAGTAAATATGTCAAAG
GTAGAGACAGGTCTTCATGTGTGAGAAAGTATAGCGAGAGCAGATCATCTTTAGATTATTCTTCAGACAGTGAGC
AGTCAAGTGTTCAGGCCACACAGTCAGCCAGGAAAAAGAGAAGCAGGGCCAAATGGAAAGAACACATAATAAAC
AAGAAAAAACAGAGGTGAAGAAAAATCCAAGTCTGAACGGGAATGCCCTCATTCAAAAAAAGAAGCTTTGAAAG
AGAATCTTTCTGATCACCTTAGAAATGGCAGTAAGCCCAAAGGAAGAATTATGCTGGTAGTAAATGGGACTCTG
AGTCAAATTCAGAACGAGATGTCACTAAAAACAGTAAAAATGACTCCCATCCATCCTCTGACAAGGAAGAAGGTG
AGGCCACATCCGATTCTGAATCAGAGGTTAGTGAAATTCACATCAAAGTCAAACCCACAACCAAGTCGTCCACAA
ATACTTCACTGCCTGATGATAATGGTGCTTGGAATCAAGCAAACAGCGCACATCAACTTCTGACTCTGAGGGGT
CCTGTTCCAATTTCGGAACAAATAGGGGAAAGCCACAAAGCACAAACATGGGTCAAAGGAAAAATCTTAAAGAG
AACACACCAAAAAAGTGAAAGAGAAATTGAAAGGGAAAAAAGACAAAAAGCATAAGGCTCCAAAACGAAAGCAAG
CATTTCACTGGCAGCCTCCACTAGAATTTGGTGAAGAGGAGGAGGAGATTGATGACAAGCAAGTTACTCAGG
AATCAAAGAGAAAAAAGTTTCTGAAAACAATGAAACCATAAAAGATAATATTCTAAAAACTGAGAAATCCAGTG
AAGAGGACCTTTCAGGTAAACATGATACAGTGACTGTTTCATCAGATCTTGATCAGTTTACTAAAGATGATAGTA
AACTCAGTATTTCTCCACAGCTTTAAATACTGAGGAAATGTGGCCTGTTTACAAAACATTCAGCACGTTGAAG
AAAGTGTTCCCAATGGAGTGGAAGATGTGCTTCAAACAGATGACAACATGGAGATCTGCACTCCTGATAGGAGTT

CCCCAGCAAAAGTAGAGGAGACTTCCCCTCTAGGAAATGCACGGCTTGATACCCAGCATATAAACATTGTTTGA
AGCAGGATATGGCAACGGAACATCCTCAAGCAGAGGTAGTAAACAGGAAAGCAGCATGTCCGAAAGTAAAGTGT
TGGGTGAAGTGGGGAAACAGGACAGCAGCTCTGCTAGCTTGGCTAGTGCTGGAGAAAGTACCGGGAAGAAGGAGG
TGGCTGAGAAGAGCCAGATCAACCTCATTGATAAGAAATGGAAGCCCCCTGCAAGGTGTGGGGAACCTGGCAGCAC
CTAATGCTGCCACATCCAGTGCTGTGGAAGTTAAGGTGTTGACCACTGTGCCTGAAATGAAACCACAAGGCTTGA
GAATAGAAATTAAAGCAAAAATAAAGTTCGGCCTGGGTCTCTCTTTGATGAAGTAAGAAAGACAGCAGCGTTAA
ACCGTAGACCAAGAAATCAGGAGAGTTCAAGTGATGAGCAGACGCCTAGTCGGGATGATGATAGCCAGTCCAGGA
GTCCAAGTAGATCTCGAAGTAAATCTGAAACCAATCAAGACACAGAACAAGGTCTGTCTCCTATAGTCACTCAA
GAAGTCGATCGAGAAGTTCCACATCATCTTATCGATCAAGAAGCTACTCTAGAAGTCGGAGCAGAGGATGGTACA
GCAGAGGCCGAACCAGAAGCCGGAGCAGTTTCTACCGGAGTTACAAAAGTCACAGGACGTCCAGCAGGAGCAGAT
CCAGGAGCAGCTCATATGATCCCCACAGTCGATCCAGGTCTACACCTACGATAGCTACTATAGCAGGAGTCGGA
GTGCAAGTAGAAGCCAGAGAAGTGACAGTTACCACCGAGGCAGAAATTATAATCGGCGGTCCAGGAGTTGTAGAT
CTTATGGCTCTGACAGTGAAAGTGACCGAAGTTACTCTCATCACCGGAGCCCCAGTGAGAGCAGCAGATACAGT
GAAACCGTCCGGATACAAATTATATCTTATTTGTAAATATCTGGCAACTTAGCTTAAGAAATGTAATGACAGTCT
GTTGTTCTATTTCAATATCAGAGGTGAATTTCAAAAATAGACACTTCTTAATTGTTACTGGTTCATTACATGTG
GGGAGAAGAATTTAAATAACAGATATGTCTCCTAAAAATATTTTTATGCCACATTTTACAGTAGCCAACTATGGA
AATGAATTTCATTTTCTTGAATCAAGAAATCGTGAAATTTATCTATGTATAATTTGCAATATTATTTTAAGTCTA
TTTCACTCTATCTTACGTATCCCTTAGAATACAGATTCTTTTTGCGTGTTTTTCCAGTTTTAGCATATATGCTGC
CAAGCATAGAACTGTGAAGGAGAACTGTTAAAGGCGGCCAAATATTTATATACTGATTACATAGAGTCTTGTACA
TATGTGCTCTAAAAACAAACCACCCAGAATTGATACTGTTGGTAACCAGGAGTATAAGGCAGTGGCTCTGGGGTT
CTTAATTCATTCTTAACCTTCTTTGATACTTCACAGGATTAGGAAAGTGGTCATCATACATCCACACAGTCTGTA
TTACTTCAGGCTTGTGGGCAAGGTTAGGAAGAATCAATCAGCCTTAACATAAAATACCTGCACTGTCTCTGAGGA
CTTACTATTTTATGTTCTTTTTAATCAATACCGATCAGAAGTTTAGGTTATAAAAACAATTCTACTTCATGCTTT
GGTGCTTGGTAATTTTTGGTGCGTCTTTAAGCATTACTCTTATATATCATATATTAAATACCATAAAAATGAAA
TTCAGACAAAATCACTGGCACCAAAAATGGTTTTATTCTGAGCTGTCTTCACCTTGACTATTTGGGGGGCTTCTCT
CAAGTACAGATGTGGGTGGGGTCCCCTGGAGCAGGCAGGATTGGCAGTAAGAGATATTGGCCACTCAAGTCTAC
TGTGTGTGTGTGCCTCTGGAAGAGTGAAGAATGGACTTCAAAAGTAACATCAAAAATCTAACTGCCACCATCCTG
GAGACATTTTGCAGGGCTTTCCCTTTCAAGTCTTTCAAGTACAGGATATTACCACAACAGCAGCTGAACTGTTGTA
ACCAGCATGTTTTTCCCTATTTCCACTGTGACCTGCAGCTGACTCAAAGCCTTGCGTGACCTGACCCAGGTGCAAG
AGACAGGGGAAGAGGGATAGAGGGTATAGCATAAATTACATATTTTCATGGCTTTGGGTGGTTTCTCCAAAAATA
ATTGGACCTGTAAAACTAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGGTTTTTTTTTTTAAATCTTTAC
TTTGAATTTGTTCCCAAGTGTAATTAATCACCTTAGTGCCAGTTTAAATCCAGTTATGCAGAAGAAATTCATATT
GGTTGCCTGATGTAGAGCTCAGCACCCACCTACCACAGGCCTTGCTGGTGTATTTGGGAAGTGAAAAGAGCCC
TCAGTTGGAGGGAGCTGACAACCCCTGGTGAGGGGAGGGTGCCCTTGAATGTATTAAAACTATACCCCAAAGAAG
GTATGAAAACAGGGTAAGGTGGTCAGTTGTTTGCCAGGTCAATAGACAGAAAGTACATTAGAAAACAGGACTTAG
GCCAAACAAACAATACTGGATACTGAATACAAAACAGTATGATTATATTAAAGGTTTTCCAAAGGTTGCGTGCAA
AGGAGAATATTACTACTAGTCAGCAGGAAAAAAATGCATTGAGAACCAAGCAGAAACTGCCAAATGTAATTAGG
TTAAGAAAAGTTACCCCTGGGCAGTGTAATTAGTTTTCTATTGCTGTGTGACAAATTACCCCAAATTTAGCAGTTT
AAAAACAATAACCCATAGCAGTTCTGTAGCTCATGAGTCTGGCACAGTGTGGCTGGATTCTCTGCTCAGGGTCTT
AAAGGCTGAAATAAGGGTTGGCAGGACAACATTCCTTCATGGAGGCTCTGGGGAAGAACTGCTTCTAAGTTCAT
TCAGGTTGTTGGCGGAATTCAGTCTTTGCTGGCTCTCAGCTGGAGGCCCTCTCTCACCTCAAGGCTGCCTGCA
TTCTTCTTATGTGGTCCCCCTCAGCTTCAAACCAGCCTTCTGCTCTTTCTCATGCTTCATATCTCTCTCCCGT
CCTCCTGTTTTAGGGGCATATGATTAGCTCAAGCCCACAGATATATTTTAAGGTTGATTGTGCGATAGAACATAA
TTGCAGGAGTACTGTCTCATCTCATCATATTCACGGGTTCTGGAGATTAGCTCATTGAAAGTGGGAGGGGCATT
TCAAATTCGCCACACAGGCAATAACTGCCCATCTCAGCTGTAGGTGGAATTTTTACCCAGAAAAGATAGGCC
CTAGAAGCCTCATTTCTTTTCTCCATGGAAAAGGACAGCCCTCTGCTGCAGCGTTCAACTTGTGTGTTTACTGAC
AGAGTGAACCTACAGAAATAGCTTTTCTTCTAAAGGGGATTGTTCTACATTTTGAAGTTATTTTTTAATAAAAT
GAATTATGTTGT

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FIGURE 1118

MGAQDRPQCHFDIEINREPVGRIMFQLFSDICPKTCNLFCLCSGEKGLGKTTGKKLCYKGSTFHRVVKNFMIQG
GDFSEGNGKGGESIYGGYFKDENFILKHDRAFLLSMANRGKHTNGSQFFITTKPAPHLDGVHVVFGLVISGFVI
EQIENLKTDAAASRPYADVVIDCGVLATKSIKDVFEKKRKKPTHSEGSDDSSNSSSSSESESELEHERSRRRK
HKRRPKVKRSKKRRKEASSSEEPNKHAMNPKGHSESDTNEKRSVDSSAKREKPVVRPEEIPVPENRFLLRD
MPVVTAEPKIPDVAPIVSDQKPSVSKSGRKIKGRGTIRYHTPPRSRSCSESDDDDSSETPPHWKEEMQRLRAY
RPPSGEKWSKGDKLSGPCSSRWDERSLSQRSRSWSYNGYYSDLSTARHSGHHKKRRKEKKVKHKKKGKKQKHCR
HKQTKRRILIPSDIESSKSSTRMKSSCDRESRSSSSSLSSHSSKRDWSKSDKDVQSSLTHSSRDSYRSKSHS
QSYSRGSSRSRTASKSSSHSRSRSKSRSSSKSGHRKRASKSPRKTAQSLSENKPVKTEPLRATMAQNEENVVQPV
VAENIPVIPLSDPPPSRWKPGQKPWKPSYERIQEMKAKTTHLLPIQSTYSLANIKETGSSSSYHKREKNSESDQ
STYSKYSDRSSESPRSRSRSSRSRSYSRSYTRSRLASSHSRSPSSSRSHSRNKYSDHSQCRRSSSYTSISSD
DGRRAKRRRLRSSGKKNSVSHKKHSSSEKTLHSKYVKGRDRSSCVRKYSESRSLLDYSSDSEQSSVQATQSAQEK
EKQGMERTHNKQEKNRGEEKSKSERECPHSKKRTLKENLSDHLRNGSKPKRKNYAGSKWDSESNSESDVTKNSK
NDSHPSSDKEEGEATSDSESEVSEIHIKVKPTTKSSTNTSLPDDNGAWKSSKQRTSTSDSEGSCSNSENNRGKPQ
KHKHGSKENLKREHTKKVKEKLKGKKDKKKHAPKRKQAFHWQPPLEFGEEEEEEIDDKQVTQESKEKKVSENNET
IKDNILKTEKSSEEDLSGKHDTVTVSSDLQFTKDDSKLSISPTALNTEENVACLQNIQHVEESVPNGVEDVLQT
DDNMEICTPDRSSPAKVEETSPLGNARLDTPDINIVLKQDMATEHPQAEVVKQESSMSESKVLGEVGKQDSSSAS
LASAGESTGKKEVAEKSQINLIDKKWKPLQGVGNLAAPNAATSSAVEVKVLTTPPEMKPQGLRIEIKSKNKVRPG
SLFDEVKRTARLNRRPRNQESSSDEQTPSRDDDSQSRSPSRSRKSETKSRHRTSVSYSHSRSRSRSTSSYRS
RSYSRSRSGWYSRGRTRSRSSSYRSYKSHRTSSRSRSRSSSYDPHSRSRSYTYDSYYSRSRSRSRQRSDSYHR
GRSYNRRSRSCRSYGSDESSEDRSYSHHRSPSESSRY

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FIGURE 1119

GGCTTCTGGGAGCGACCGCTCCGCTCGTCTCGTTGGTTCCGGAGGTCGCTGCGGCGGTGGGAAATGCTGGCGCGC
GCGGCGCGGGGCACTGGGGCCCTTTTGCTGAGGGGCTCTCTACTGGCTTCTGGCCGCGCTCCGCGCCGCGCCTCC
TCTGGATTGCCCCGAAACACCGTGCTACTGTTTCGTGCCGAGCAGGAGGCCTGGGTGGTGGAGCGAATGGGCCGA
TTCCACCGGATCCTGGAGCCTGGTTTGAACATCCTCATCCCTGTGTTAGACCGGATCCGATATGTGCAGAGTCTC
AAGGAAATTGTCATCAACGTGCCTGAGCAGTCGGCTGTGACTCTCGACAATGTAACCTTGCAAATCGATGGAGTC
CTTTACCTGCGCATCATGGACCCTTACAAGGCAAGCTACGGTGTGGAGGACCCTGAGTATGCCGTCACCCAGCTA
GCTCAAACAACCATGAGATCAGAGCTCGGCAAACCTCTCTCTGGACAAAGTCTTCCGGGAACGGGAGTCCCTGAAT
GCCAGCATTGTGGATGCCATCAACCAAGCTGCTGACTGCTGGGGTATCCGCTGCCTCCGTTATGAGATCAAGGAT
ATCCATGTGCCACCCCGGGTGAAAGAGTCTATGCAGATGCAGGTGGAGGCAGAGCGGCGGAAACGGGCCACAGTT
CTAGAGTCTGAGGGGACCCGAGAGTCGGCCATCAATGTGGCAGAAGGGAAGAAACAGGCCAGATCCTGGCCTCC
GAAGCAGAAAAGGCTGAACAGATAAATCAGGCAGCAGGAGAGGCCAGTGCAGTTCTGGCGAAGGCCAAGGCTAAA
GCTGAAGCTATTTCGAATCCTGGCTGCAGCTCTGACACAACATAATGGAGATGCAGCAGCTTCACTGACTGTGGCC
GAGCAGTATGTCAGCGCGTTCTCCAAACTGGCCAAGGACTCCAACACTATCCTACTGCCCTCCAACCCTGGCGAT
GTCACCAGCATGGTGGCTCAGGCCATGGGTGTATATGGAGCCCTCACCAAAGCCCCAGTGCCAGGGACTCCAGAC
TCACTCTCCAGTGGGAGCAGCAGAGATGTCCAGGGTACAGATGCAAGTCTTGATGAGGAACCTTGATCGAGTCAAG
ATGAGTTAGTGGAGCTGGGCTTGGCCAGGGAGTCTGGGGACAAGGAAGCAGATTTTCTGATTCTGGCTCTAGCT
TCCCTGCCAAGATTTTGGTTTTTATTTTTTATTTGAACTTTAGTCGTGTAATAAACTCACCAGTGGCAAACCTG
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1120

MLARAARGTGALLLRGSLASGRAPRRASSGLPRNTVVLFVPPQAEAWVVERMGRFHRILEPGLNILIPVLDRIY
VQSLKEIVINVPEQSAVTLDNVTLOIDGVLYLRIMDPYKASYGVEDPEYAVTQLAQTMRSELGKLSLDKVFRE
ESLNASIVDAINQAADCWGIRCLRYEIKDIHVPPRVKESMQMQVEAERRKRATVLESEGTRESAINVAEGKKQAQ
ILASEAEKAEQINQAAGEASAVLAKAKAKAEAIRILAAALTQHNGDAAASLTVAEQYVSASFSLAKDSNTILLPS
VTSMVAQAMGVYGALTKAPVPGTPDSLSSGSSRDVQGTDSLDEELDRVKMS

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FIGURE 1121

TGTATTCAATGCACTGGATTGATGGAAAATAAGACATTCTTGAAAAAACAAGTTTGGTATAGGAGATGGCAA
TTTGCAGTATTACCTGTACAATTGGAGGTGTCCAGGTACAGATTCTGAAAAGGGCTCTGGTAACTTCGTTAACGC
CAATGGCAAGCTGCTTCCTGACGTGTGCAGGCGTCCACCCTGACACTTGCTGCTTAGCATCTGTTTTCTTCTCCT
TCAGATTCTCACTAATATCAACAGCAATGCTGCATTTCTCTCTGCTTTCTTTTTTCAGAAAAGGTGTTTTGTTCT
TTTTCTTCTTATCTTCAATCTTCTGAAGTCCAATAGCTTTAAGCCTGTCCTCAAGCGTCTGTAGGATGAAGTGCA
TATCCTCGCTCTCCAGAGCGCTCCAGCGGATGATGTATGGGTGTTCAACGACGTCTCCACAACCAGAGGTCTCG
TCTTACGGAGAGATCCCCGCCCCGGTGCTTGAGGAGCTGCAGCCATTTGAAAATCCTTCCAAGAAGCAAAATGA
CAACAGAAAAAATTCATGTTAGCGACAACATGCACTTAAGAATATCTTGACTGTACTCTCTGATTCTTATTTA
TTTATGTATTTATTTTTTGAGACAGAATTTCACTCTTGTTGCCAGGCTGGAGTGCAGTGGCACAATCTCAGCTC
ACTGCAACCTCCACCTCCTGGGTTCAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCGCCC
GCCACCAAGCCCAGCTAATGTTTCTATTTTTTTTTTAGTAGAGACAGGGTTTCACCATGTTGCCAGGCTGGTCTC
AACTCCTGACCTCAGGTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCC
CGGCCTGTACTCTGATTCTGGATAAGCTAGAGCAAGCCTGATTATATAAGTCCAATTAGGTGAGCATACGCTTGT
CTTCCTTTTAAAGATTAAAGTAATTTTATTTTTCCCATTTTTCTTACCCGATTTTGAATGCTCTACGAAGGCTCT
TTAAAATACTCAGGACTATGGGTGAGTAGTGTAAATTTCCCATTTTTTATATGACTTTGTCTTTATTCCTA
TACAAGCAATATGTGAAAGTTTAAATTATTGCAATCATAGTACAATTCCATTTGTCTATTTCAATTTATTAAAAAT
ATTCTGTTTCTACTTGTTTCATAATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1122A

CGCCCCGGCGCGGGGCCCTGCGGTAGCCTCAGGCCCTCCCTGGACCCGCCGAGAGCCAGTGCAGAATACAGA
AACTGCAGCCATGACCACGCACGTACCCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTTGAAGAGCTTCCCCT
CCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCTCCATCATGTACCAGGCTAACTTTGACACAAACTTTGA
GGACAGGAATGCATTTGTACGGGCATTGCAAGGTACATTGAGCAGGCTACAGTCCACTCCAGCATGAATGAGAT
GCTGGAGGAAGGACATGAGTATGCGGTTCATGCTGTACACCTGGCGCAGCTGTTCCCGGGCCATTCCCCAGGTGAA
ATGCAACGAGCAGCCCACCGAGTAGAGATCTATGAGAAGACAGTAGAGGTGCTGGAGCCGGAGGTACCCAAGCT
CATGAAGTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGCAGCGAGGTGAAGCGGCTGTGCCATGCCGA
GCGCAGGAAGGACTTTGTCTCTGAGGCCCTACCTCCTGACCCTTGGCAAGTTCATCAACATGTTTGTGTCTGGA
TGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCCTCTGCCTACAAGAGGGCAGCACAGTTCCTGCGGAA
GATGGCAGATCCCCAGTCTATCCAGGAGTCGCAGAACCTTTCCATGTTTCTGGCCAACCACAACAGGATCACCCA
GTGTCTCCACCAGCAACTTGAAGTATCCAGGCTATGAGGAGCTGCTGGCTGACATTGTCAACATCTGTGTGGA
TTACTACGAGAACAAGATGTACCTGACTCCCAGTGAGAAACATATGCTCCTCAAGGTGATGGGCTTTGGCCTCTA
CCTAATGGATGGAAATGTCAGTAACATTTACAACTGGATGCCAAGAAGAGAATTAATCTTAGCAAATTTGATAA
ATTCTTTAAGCAGCTGCAGGTGGTGGCCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAG
TGCTCACTATGAAGAGAACAGTCCAAGTGGACGTGCACCCAGAGCAGCATCAGCCCCCAGTACAATATCTGCGA
GCAGATGGTTTCAGATCCGGGATGACCACATCCGCTTCATCTCCGAGCTCGCTCGCTACAGCAACAGTGAGGTGGT
GACGGGCTCAGGGCTGGACAGCCAGAAGTCAGACGAGGAGTATCGCGAGCTCTTCGACCTAGCCCTGCGGGGTCT
GCAGCTTCTATCCAAGTGGAGCGCCACGTCATGGAGGTGTACTCTTGGAGCTGGTTCATCCCACAGACAAGTT
CTGCAACAAGGACTGTCTGGCACCGCGGAGGAATATGAGAGAGCCACACGCTACAATTACACAGTGAGGAAAA
ATTTGCCTTCGTTGAGGTGATCGCCATGATCAAAGGCCTGCAGGTGCTCATGGGCAGGATGGAGAGCGTCTTCAA
CCAGGCCATCAGGAACACCATCTACGCGGCATTGCAGGACTTCGCCCAGGTGACGCTGCGTGAGCCCTGCGGCA
GGCGGTACGGAAGAAGAAGAATGTCCTCATCAGCGTCTTACAGGCAATTGAAAGACCATCTGTGACTGGGAGGG
AGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGACCCCAAAGGTGGATTTGATATCAAGGTGCC
CCGCGTGTCTGTGGGGCCATCCAGCACACAGCTGTACATGGTGCGGACCATGCTTGAATCACTCATTGCAGACAA
AAGCGGCTCCAAGAAGACCCTGAGGAGCAGCCTGGATGGACCCATTGTCTCGCCATAGAGGACTTTTACAAACA
GTCCTTCTTCTTACACATCTGCTCAACATCAGTGAAGCCCTGCAGCAGTGTGTGACCTCTCCAGCTCTGGTT
CCGAGAATTCTTCTGAGTTAACCATGGGCCGACGAATCCAGTTCCCCATCGAGATGTCCATGCCCTGGATTCT
AACGGACCATATCCTGGAAACCAAGAACCTTCCATGATGGAGTATGTCTCTACCTCTGGATCTGTACAACGA
CAGCGCTACTATGCTCTGACCAAGTTTAAAAAGCAGTTCTGTACGATGAGATAGAAGCTGAGGTGAACCTGTG
TTTTGATCAGTTTGTCTACAAGCTGGCAGACCAGATCTTGTCTTACTACAAAGCCATGGCTGGCAGTGTCTGT
GGATAACGTTTTTCGAGCTGAGTGTAAAGATTATGGCGTCATCATTCCGTATCCACCGTCCAATCGCTATGAAAC
ACTGCTGAAGCAGAGACACGTCCAGCTGTTGGGTAGATCAATTGACTTGAACAGACTCATTACCCAGCGCATCTC
TGCCGCCATGTATAAATCCTTGGACCAAGCTATCAGCCGCTTTGAGAGTGAGGACCTGACCTCCATTGTGGAGCT
GGAGTGGCTGCTGGAGATTAACCGGCTCACGCATCGGCTGCTCTGTAAGCATATGACGCTGGACAGCTTCGATGC
CATGTTCCGAGAGGCCAATCACAATGTGTCCGCCCCCTATGGCCGTATCACCTGCATGTCTTCTGGGAAGTGA
CTTTGACTTTCTCCCCAACTACTGCTACAATGGGTCCACTAACCGTTTTGTGCGGACTGCCATTCTTTACCCA
AGAACCACAACGAGACAAACCTGCCAACGTCCAGCCTTATTACCTCTATGGATCCAAGCCTCTCAACATTGCCTA
CAGCCACATCTACAGCTCCTACAGGAATTTCTGTTGGGGCCACCTCATTTCAAGACTATCTGCAGACTCCTGGGTTA
TCAGGGCATCGCTGTGGTCATGGAGGAACCTGCTAAAGATTGTGAAGAGCTTGCTCCAAGGAACCATCTCCAGTA
TGTGAAAACACTGATAGAGGTGATGCCAAGATATGCCGCTTGCCCCGACATGAGTATGGCTCCCCAGGGATCCT
GGAGTTCTTCCACCACCAGCTGAAGGACATCATTGAGTACGCAGAGCTCAAAACAGACGTGTTCCAGAGCCTGAG
GGAAGTGGGCAATGCCATCCTCTTCTGCCTCCTCATAGAGCAAGCTCTGTCTCAGGAGGAGGTCTGCGATTTGCT
CCATGCCGCACCCCTTCCAAAACATCTTGCTTAGAGTCTACATCAAAGAGGGGGAGCGCCTGGAGGTCCGGATGAA
ACGTCTGGAAGCCAAGTATGCCCGCTCCACCTGGTCCCTCTGATCGAGCGGCTGGGGACCCCTCAGCAAATCGC
CATTGCTCGCGAGGGTGACCTCCTGACCAAGGAGCGGCTGTGCTGTGGCTGTCCATGTTTCGAGGTCTCCTGAC
CCGCATTCCGAGCTACCTGCAGGACCCCATCTGGCGGGGCCACCGCCCAACATGGCGTCATGCACGTCGATGA
GTGTGTGGAGTTCCACCGGCTGTGGAGCGCCATGCAGTTCTGTGTACTGCATCCCTGTGGGAACCAACGAGTTTAC
AGCTGAGCAGTGTTCGGCGATGGCTTGAAGTGGGTTGGTTGCTCCATCATTGTCTGCTGGGCCAGCAGCGTGC

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FIGURE 1122B

CTTTGACCTGTTTCGACTTCTGTTACCACCTGCTAAAAGTGCAGAGGCAGGACGGGAAGGATGAAATCATTAAAGAA
TGTGCCCCCTGAAGAAGATGGCCGACCGGATCAGGAAGTATCAGATCTTGAACAATGAGGTTTTTGGCATCCTGAA
CAAATACATGAAGTCCGTGGAGACAGACAGTTCCACTGTGGAGCATGTGCGCTGCTTCCAGCCACCCATCCACCA
GTCCTTGGCCACCACTTGCTTAAGCAGAAGATCCTGCAGACCCTTATCTGGAGGAGGAAGAGAAGCAGGAGAGAGA
AAGCCACAGCCAGCCTGCCATAGGATCCAACCTGGACAACGTGTGGGATGGACCTGGAAACAAGCACCTCCCCAAA
CACATCACCCTCCCTAGGGCGGGGCCTGTGCATGCTCTCCCATGACATCTCCATGCTGGTTTCTCCATAGCATA
AATG

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FIGURE 1123

APARGPAVASGSPSPGPAAEPVQNTETAAMTTHVTLEDALSNDLLEELPLPDQQPCIEPPSSIMYQANFDTNFE
DRNAFVTGIARYIEQATVHSSMNEMLEEGHEYAVMLYTWRSRAIPQVKCNEQPNRVEIYEKTVEVLEPEVTKL
MKFMYFQRKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKF INMFAVLDELKNMKCSVKNDHSAYKRÅAQFLRK
MADPQSIQESQNLMSFLANHNRI TQCLHQQLEVIPGYEELLADIVNICVDYYENKMYLTPSEKHMLLKVMGFGLY
LMDGNVSNIYKLDAKKRINLSKIDKFFKQLQVPLFGDMQIELARYIETSAHYEENKSKWTCTQSSISPQYNICE
QMVQIRDDHIRFISELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKLVHPTDKF
CNKDCPGTAEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVTLREPLRQ
AVRKKKNVLISVLQAIRKTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPPSSTQLYMVRTMLES LIADK
SGSKKTLRSSLDGPIVLAIEDFHKQSFFFTHLLNISEALQCCDLSQLWFRFFLELTMGRRIQFPIEMSMPWIL
TDHILETKEPSMMEYVLYPLDLYNDSAYYALT KFKKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLL
DKRFRAECKNYGVII PYPSPNRYETLLKQRHVQLLGRSIDLNRLITQRI SAAMYKSLDQAISRFESEDLT SIVEL
EWLLEINRLTHRL LCKHMTLDSFDAMFREANHNVSAPYGRITLHVFWELNFDLPNYCYNGSTNR FVRTAIPFTQ
EPQRDKPANVQPYLYGSKPLNIAYSHIYSSYRNFVGPPHFKTICRL LGYQGI AVVMEELLKIVKSLLQGTILQY
VKTLIEVMPKICRLPRHEYGSPGILEFFHHQLKDII EYAEKTDV FQSLREVGNAILFCLLIEQALSQEEVCDLL
HAAPFQNILPRVYIKEGERLEV MRKLEAKYAPLHLVPLIERLGTPQQIAIAREGDLLTKERLCCGLSMFEVILT
RIRSYLQDPIWRGPPPTNGVMHVDECVEFHRLWSAMQFVYCIPVGTNEFTAEQCFGDGLNWVGCSII VLLGQQR
FDLDFCYHLLKVQRQDGKDEI IKNVPLKKMADRIRKYQILNNEVFAILNKYMKSVETDSSTVEHVRCFQPP IHQ
SLATTC

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FIGURE 1124

GCTGTGCAACCTCGGCGCCATGCGCAACCTCTATGCGATGCACCGGCGGCTGCAGCGGCACCCGCGCTCCTGCAC
CAGGGACTGTGCCGAGCCGCGCGCGGACGGGAGGGGAAGCGTCCCCTCAGCCCCTGGAGGAGCTGGATCACCTCCT
GCTGCTGGCGCTGATGACCGTGCTCTTCACTATGTGTTCTCTGCCCCGTAATTTATCGCGCTTACTATGGAGCATT
TAAGGATGTCAAGGAGAAAAACAGGACCTCTGAAGAAGCAGAAGACCTCCGAGCCTTGCGATTTCTATCTGTGAT
TTCAATTGTGGACCCTTGGATTTTTATCATTTTCAGATCTCCAGTATTTCGGATATTTTTTCACAAGATTTTCAT
TAGACCTCTTAGGTACAGGAGCCGGTGCAGCAATTCCACTAACATGGAATCCAGTCTGTGACAGTGTTTTTCACT
CTGTGGTAAGCTGAGGAATATGTCACATTTTCAGTCAAAGAACCA

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FIGURE 1125

LCNLGAMRNLYAMHRRLLQRHPRSCTRDCAEPRADGREASPOPLEELDHLALLALMTVLFTMCSLPVIYRAYYGAF
KDVKEKNRTSEEAEDLRALRFLSVISIVDPWIFIIFRSPVFRIFFFHKIFIRPLRYRSRCSNSTNMESL

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FIGURE 1126

CTTATTTTCAACTCCCGAGTGGCTAGACAGGAAAAAGAAAGAAATGATGTGAGGAAAGTTGGGAAGCTCTGCACA
GTGATCCCTGAGAGCCCTGGCACCCTTTAGGAGACGTGGTAGGTCCTCTGTACATGTTCTTCCTCAGCAAGGG
GGGTTTTCCCAAAAGGGACACAAGAAGAAATCTTACTCAGTGGAGTAAATGGAAAGAAGAGGGAGCATGTCTGTC
TGGTTCCTTCTTATTTCTCCTTTCTCAGAGTCAAGTTTACCCACAGGGAGTTCACGCTTCCATGTTGCCTCA
TCCAGCCCTTCAGGAAGCCAGAGTCTGTGCTCCAGTGTGGCATTTCAGCCAACCTAGAAATGAAGGGTGACTTAG
CACAGAGAGGTTCAACAAGTGGGGCATGCAGGCCACTGATCTCTGCAAGGGCAGCAGTGCCGGGTGCTCTGGGA
TACAGGCAGTGCCTTCGGAAAGAAGGGCAATTGAAGACAGTTGAGAAGGTGAACAAAGTTTACATCTAACAAATT
TTAAAGTTTTATTATTTTTATTTTTATATTCTTGGGGTCTCACTATTTTGCCAGGCTGGAGTGCAGCAGCTATT
TGCAGGCTGAATCCCACTACTGATCAGTACTGGAGTTTTATTTTATTTAATTAACCTATTTATTTTGAGACAGAG
TCTTGCTCTATTGCTCAGGCTGGAGTGCAGTGTTCGATCTCGGCTCACTGCAGTCTCGACCTCCAGGCTCAAT
CGATCCTGCCACCTCAGCCTCTGGAGTAGCTGGGACTACCTGTAGGTGCGTGCCACCACGCCAGGTAATCTTTT
ATTTTTGTAGATAACAGTTATCCTATGTTGCCAGGCTGGTCTCCAACCTCCTGGGCTCAAGCAATCCTCCACC
TCAGCCTCCCTAAGTGCTGAGATTACAGGTGTGAGTCACTGTGCCAGCCAACCTGGACTATTCTAAATTTTAAAC
AGTGCCCTAAGAGAATCATGCTTAATTAATACTAGCTGGACGTGGTGGCTTACGCCTGTAATCCAGCACTTTGG
GAGGCCGAGATGGGCGGATCCCTTGATTCCAGGAGTTCGAGTCCAACCTGGGCAGCACGAAGAAACCTCATCTC
TACCAAAAATACAAAATTAGCCAGGCATTGTGGTGTATACCTGTAGTCCCAGCTGCTTGGGAGGATGAGGCAGG
AGGATTGCTGGAGCCTGGGAGGTGGAGGTTGCAAAAAATAATGACTTTTAGTGTTACTGCAGATGCAACGCATG
TTCAGTGTAGACCAATTTAAACTATAGATAAACCAAAACAACAACTTTTTCTTTTTTTAAGAGACGGAGTCT
CGCTCTGTTGCCAGGCTGGAGTGCAGTGGTGCAATCTCGGCTCGCTGCAACCTCAGCCTCCAGGTTCTAGCAA
CTCCTGCCTCAGCCTCTTGAGTAGCTGGGACTACAGGCGCACACCACACCCATCTAATTTTTTGATTTTAG
TAGAGACGGGGTTTTACCTTGTTATCCACTGTGGTCTCAAACCTCCTGAGCTCAGACAATCCGCCCGCCTCGCCTC
CCAAAGCGCTGGGATTACAGGGGTGAGCCACCACACCCGGCCAAGAACTTTAAATACTACCTAGAGACAATCCC
TTTTAAACTTTAGTGATGTCTTTTTATACATTTTCTAGGCTTCTAGGCTCATTGCAAAAATGAGATACCAC
TGTAATACTTAATCTGTAAATTATCTTTTTTCAGGAGTCTCTCTGAGTCTTCTGGCTCAGGGAGCTGTCCTATAA
CATAAATAAGTAAATTTTTTTTTTACAATGGTTGTTGAAGATACTAATAAATATTACAGGGCTGGGCACAGTGGTTT
ATAGCTGTAATCCCACTTTCGGGAGGTCAAGGTGGGAGGATTGCTTTAGCCCAGGAGTTTGAGACCAGCCTGG
GGAACATAATGAGACCCATCTGTAAAAAAGAAATTAATTCACCTTTAGTATTATCTTATTAAATTTCCATTG
TGCATTTACACAATCATTTACCTTATCAGTCCCTTCAGAAGAACATTTAAGTTGTTATCACTTACATCCTTGCA
CTAAATCTTTGAGTACATCCTAATACCTGTCTGTTTTTAATGACCTATCTAAGGAATCCTTTGAAACCTATACAC
TTAACCCTGTGTTAGCTAAGAGCCTCCAAAAAGGCTGGGTGTGGCGGCTCATGCCTGTAATCCAGCACTTTGG
GAGTCCGAGGCGAGTGAATCACTTGAGGTCAGGAGTTCGAGACCAGCCGGGCCAACATGGTGAAACCCGCTCTCT
ACAAAAATGCAAAAATTAGTTGGGCATGGTGGCTCACTCCTGTAGTCTGGCTACTCAGGAGGATAAGTGGAAG
GATGGCTTAAGCTCAGGAGGTAGAGATTGCAATGAGCCGAGATTGTGCCACTGCACTACAACCTGGGCAACAGAG
CCAGACCCTGTCTCAAAAAAAAAAAAAAAAAA

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FIGURE 1127

CTTGTCTCCCCTGGTTTGTGAAGTGC GGAAAACCAGAGGCGCAGTCATGTCGGGATTTCGACGATCCTGGCATT
CTACAGCGACAGCTTCGGGGGCGACGCCAGGCCGACGAGGGGCGAGGCCGCAAATCGCAGCTGCAGAGGCGCTT
CAAGGAGTTCTGCGGCAGTACCGAGTGGGCACCGACCGCACGGGCTTCACCTTCAAATACAGGGATGAACTCAA
GCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGAGATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGC
CGACTACTTGTACAAGCAGCCAGCCGAGCACCTGCAGCTGCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGT
GACCCGGCCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGACATCCAGGTTCATGCTCAAGTCGGACGCCAGCCCTTC
CAGCATTTCGTAGCCTGAAGTCGGACATGATGTACACCTGGTGAAGATCCCTGGCATCATCATCGCGGCCCTCTGC
GGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGCCGCGAGCTGCCGCAACACCCTCACCAACATTGCCATGCG
CCCTGGCCTCGAGGGCTATGCCCTGCCAGGAAGTGCAACACAGATCAGGCTGGGCGCCCCAAATGCCATTGGA
CCCGTACTTCATCATGCCCGACAAATGCAAATGCGTGGACTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGC
AGTCCCCACGGGGAGATGCCAGACACATGCAGCTCTACTGCGACAGGTACCTGTGTGACAAGGTCTGTCCTGG
GAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAAGTTTGGCCTGACCACCAGCAGGGGGCGTGACAGGGT
GGGCGTGGGCATCCGAAGCTCCTACATCCGTGTCTGGGCATCCAGGTGGACACAGATGGCTCTGGCCGCGAGCTT
TGCTGGGGCCGTGAGCCCCAGGAGGAGGAGGAGTTCCGTGCGCTGGCTGCCCTCCCAAATGTCTATGAGGTCTAT
CTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGCGACAGACATGAAGAAGGCCATTGCCTGCCTGCTCTTTGGGG
CTCCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGGAGACATCAACCTGCTGATGCTAGGGGACCCCTGGGAC
AGCCAAGTCCCAGCTTCTGAAGTTTGTGGAGAAGTGTTCTCCCATTTGGGGTATACACGTCTGGGAAAGGCAGCAG
CGCAGCTGGACTGACAGCCTCGGTGATGAGGGACCCCTTCGTCCCGGAATTTTCATCATGGAGGGCGGAGCCATGGT
CCTGGCCGATGGTGGGGTCTGTCTGTATTGACGAGTTTGACAAGATGCGAGAAGATGACCGTGTGGCAATCCACGA
AGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGGGATCACCAACCACCCTGAACTCCCCTGCTCCGTCTCT
GGCTGCTGCCAACTCAGTGTTTCGGCCGCTGGGATGAGACGAAGGGGGAGGACAACATTGACTTTCATGCCCACCAT
CTTGTGCGGCTTCGACATGATCTTCATCGTCAAGGATGAGCACAAATGAGGAGAGGGATGTGATGCTGGCCAAGCA
TGTCATCACTCTGCACGTGAGCGCACTGACACAGACACAGGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAA
GAAGTTTATTGCCTACTGCCGAGTGAAATGTGGCCCCCGGCTGTCTAGCAGAGGCTGCAGAGAACTGAAGAACCG
CTACATCATCATGCGGAGCGGGGGCCGTCAGCACGAGAGGGACAGTGACCGCCGCTCCAGCATCCCCATCACTGT
GCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCTCAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGC
AGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCACGTTGGATGCTGCCTTGTCCGGTACCCTGTGAGGGGT
GGAGGGCTTCACCAGCCAGGAGGACCAGGAGATGCTGAGCCGCATCGAGAAGCAGCTCAAGCGCCGCTTTGCCAT
TGGCTCCAGGTGTCTGAGCACAGCATCATCAAGGACTTCACCAAGCAGAAATACCCGGAGCACGCCATCCACAA
GGTGCTGCAGCTCATGCTGCGGCGCGGCGAGATCCAGCATCGCATGCAGCGCAAGGTTCTCTACCGCCTCAAGTG
AGTGCGCGCCGCTCACTGGACTCATGGACTCGCCACGCCTCGCCCTCCTGCCGCTGCCTGCCATTGACAAATGT
TGCTGGGACCTCTGCCTCCCCACTGCAGCCCTCGAACTTCCAGGCACCCTCCTTTCTGCCCCAGAGGAAGGAGC
TGTAGTGTCTGCTGCCTCTGGGCGCCCGCCTCTAGCGCGTTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAA
TAAAGCCACGGTGTGTTCAAGTAAAAAAAAAAAAAAAAA

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FIGURE 1128

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWIEVEME
DLASFDEDLADYLYKQPAEHLQLLEEAAKEVADEVTRPRPSGEEVLQDIQVMLKSDASPSSIRSLKSDMMSHLVK
IPGIIIAASAVRAKATRISIQCRSCRNTLTNIAMRPGLEGYALPRKCNTDQAGRPKCPLDPYFIMPDKCKCVDFQ
TLKLQELPDVPHGEMPRHMQLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIQ
VDTDGSGRSFAGAVSPQEEEEFRRLAALPNVYEVISKSIAPSIFFGGTDMKKAIACLLFGGSRKRLPDGLTRRGDI
NLLMLGDPGTAKSQLLKFEKCSPIGVYTSKGSSAAGLTASVMRDPSSRNFIMEGGAMVLADGGVVCIDEFDKM
REDDRVAIHEAMEQQTISIAKAGITTTLSRCSVLAAANSVFGRWDETKGEDNIDFMTILSRFDMIFIVKDEHN
EERDVMLAKHVITLHVSALTQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS
DRRSSIPITVRQLEAIVRIAELSMMKLQPFATEADVEEALRLFQVSTLDAALSGTSLSGVEGFTSQEDQEMLSRI
EKQLKRRFAIGSQVSEHSIIKDFTKQYPEHAHKKVLQLMLRRGEIQHRMQRKVLYRLK

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FIGURE 1129

CTGGAAGGAGTCAATGGCGGATGGTCAGGTGGCGGAAGTCTGCTCCGGCGGCTGGAGGCGTCTGATGGCGGCCTG
GACAGCGCCGAGTTGGCGGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTCAATCGAGGCTGAACCTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCGCGTGTGTTTTCGAAGCATTCCCCAGAGGGCCTGGCCCAGAGCGAGCTTATGCGA
CTGCCCAGTGCCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTTCGGGTGGACAAGAGTGGCGCTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGCGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGACTCTGAAG
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGGCGGGACCGGCCCTTCAAGCCCTACAACCTCTTGGGCCACGGTGTCTCCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCCAGTTCCGACAGATCTTCCTGGAGATGGGGTTCACCGAGATG
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAACCTTGACGCCCTCTCCAGCCCCAGCAGCACCAGCCCGT
GACCAGCACGACACCTTCTTCCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCGGAAA
AACCTACTGCGAACCACACACATCAGCCAGCGCCCGTGCCTCTACCGCCTTGCCCAGAAGAAGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGCGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTACCTTGGGCCACCTCATGGGCGTTCTGCGGGAGTTCTTCACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCCAGCATGGAGGTGTTTCAGC
TACCACCAAGGCCTGAAGAAGTGGGTGGAGGTTCGGAAGTTCGGGGGTCTTCCGTCCAGAGATGCTGCTGCCCATG
GGGCTTCCCAGAACGTGTGCGGTCAATTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAATATGGCATC
AACAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTGACATGGGCCACTCTAGGACAGGTATCCTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGTATTTATGAGGCTCTGTGAGGCCAGCCCCACC
TTCTCTTTTCCACCTGTCCCAGGACCAGAATCCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTGTCTCT
GTGTGGTGTGTCTACTGTGAGGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT
GCCCCA

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FIGURE 1130

MADGQVAELLLRRLEASDGGLDSAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEIAREGS
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVDSEDEVQRRQLVRGGQAEK
LGEKERSELRRKLLAEVTLKTYWVSKGSASFSTISISKQETELSPEMISSGSWRDRPFKPYNFLAHGVLDPDSGHLH
PLLKVR SQFRQIFLEMGFTEMPD NFI ESSFWNF DALFQPQQHPARDQHDTFFLRDPAEALQLPMDYVQRVK RTH
SQGGYGSQGYKYNWKLDEARKNLLRTH TTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHLAEFHQIEG
VVADHGLTLGHLMGVLEFFTKLGITQLRFKPAYNPYTEPSMEVF SYHQGLKKWVEVGNSGVFRPEMLLPMGLPE
NVS VIAWGLSLERPTMIKYGINNIRELVGHKVNLMVYDSPLCRLDAEPRPPPTQEAA

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FIGURE 1131

GAATTCGGGCGTGGGCGCGGGGCGCGGCGTGCGGCACGCTGCAGGGCTGAAGCGGCGGCGGCGGTGGGGACTGC
ACGTAGCCCGGCGCTCGGCATGGCTCTCCTGGTGCTCGGTCTGGTGAGCTGTACCTTCTTTCTGGCAGTGAATGG
TCTGTATTCTCTAGTGATGATGTGATCGAATTAACCTCCATCAAATTTCAACCGAGAAGTTATTCAGAGTGATAG
TTTGTGGCTTGTAGAATTCTATGCTCCATGGTGTGGTCACTGTCAAAGATTAACACCAGAATGGAAGAAAGCAGC
TGTGCATTAAAAGATGTTGTCAAAGTTGGTGCAGTTGATGCAGATAAGCATCATTCCCTAGGAGGTCAGTATGG
TCAGGGATTTCCTACCATTAAAGATTTTTGGATCCAACAAAAACAGACCAGAAGATTACCAAGGTGGCAGAAC
TGAAGCCATTGTAGATGCTGCGCTGAGTGCTCTGCGCCAGCTCGTGAAGGATCGCCTCGGGGGACGGAGCGG
AGGATACAGTTCTGGAAAACAAGGCAGAAGTGATAGTTCAAGTAAGAAGGATGTGATTGAGCTGACAGACGACAG
TTGATAAGAATGTTCTGGACAGTGAAGATGTTTGGATGGTTGAGTTCTATGCTCCTTGGTGTGGACACTGCAA
TACCTAGAGCCAGAGTGGGCTGCCGCAGCTTCAGAAGTAAAAGAGCAGACGAAAGGAAAAGTGAAGTGGCAGC
TGGATGCTACAGTCAATCAGGTTCTGGCCTCCCGATACGGGATTAGAGGATTTCCTACAATCAAGATATTTCA
TGAAGGCGAGTCTCCTGTGGATTATGACGGTGGGCGGACAAGATCCGACATCGTGTCCCGGGCCCTTGATTTGTT
TTGATAACGCCCCACCTCCTGAGCTGCTTGAGATTATCAACGAGGACATTGCCAAGAGGACGTGTGAGGAGCA
TAGCTCTGTGTTGTGGCTGTGCTGCCCCATATCCTTGATACTGGAGCTGCAGGCAGAAATCTTATCTGGAAGT
TCTTCTGAAGTTGGCAGACAAATACAAAAGAAAATGTGGGGGTGGCTGTGGACAGAAGCTGGAGCCCAGTCTGA
ACTTGAGACCGCGTTGGGGATTGGAGGGTTTGGGTACCCCGCCATGGCCGCCATCAATGCACGCAAGATGAAATT
TGCTCTGCTAAAAGGCTCCTTCAGTGAGCAAGGCATCAACGAGTTTCTCAGGGAGCTCTCTTTTGGGCGTGGCTC
CACGGCACCTGTAGGAGGCGGGGCTTTCCCTACCATCGTTGAGAGAGAGCCTTGGGACGGCAGGGATGGCGAGCT
TCCCGTGGAGGATGACATTGACCTCAGTGATGTGGAGCTTGATGACTTAGGGAAAGATGAGTTGTGAGAGCCACA
ACAGAGGCTTCAGACCATTTTCTTTTCTTGGGAGCCAGTGGATTTTCCAGCAGTGAAGGGACATTCTCTACTTT
CTTTTCTTGGGAGCCAGTGGATTTTTCCAGCAGTGAAGGGACATTCTCTACACTCAGATGACTCTACCAGTGGCC
TTTAAACCAAGAAGTAGTACTTGATTGGTCATTTGAAAACACTGCAACAGTGAACTTTTGCATCTCAAGAAAACA
TTGAAAATTTCTATGAATTGTTGTAGCCGGTGAATTGAGTCGTATTCTGTACATAATATTTTGAAGAAAACCTG
GCTGTCGAAACATTTTCTCTCTGACTGCTGCTTGAATGTTCTTGGAGGCTGTTTCTTATGTATGGGTTTTTTTT
AATGTGATCCCTTCATTTGAATATTAATGGCTTTTCCATTAAAGAATAAATTGGAAAAAAGAAAAA
GGAATTC

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FIGURE 1132

MALLVLGLVSCTFFLAVNGLYSSDDVIELTPSNFNREVIQSDSLWLVEFYAPWCGHCQRLTPEWKKAATALKDV
VKVGAVDADKHHSLGGQYGVQGFPTIKIFGSNKNRPEDYQGGRTGEAIVDAALSALRQLVKDRLGGRSGGYSSGK
QGRSDSSSKKDVIELTDDSFKNVLDSEVMMVEFYAPWCGHCKNLEPEWAAAASEVKEQTKGKVLAAVDATVN
QVLASRYGIRGFPTIKIFQKGESPVVDYDGGRTSRDIVSRALDLFSDNAPPPELLEIINEDIKRTCEEHQLCVVA
VLPHILDTGAAGRNSYLEVLLKLADKYKKKMWGLWTEAGAQSELETALGIGGFGYPAMAAINARKMKFALLKGS
FSEQGINEFLRELSFGRGSTAPVGGGAFPTIVEREPWDGRDGELPVEDDIDLSDELDDLGKDEL

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FIGURE 1133

TAGATGGCAACCTCCCTATCTGCCCGCAGGTCATAGAGGCGACACGTAGCGTCATCTGACCCTGAAGCAAAGGCA
TCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCTAAAGGAATTGAAAGGAACCACTC
ATTCATTCTAGACGACAAAATGCAAAAAGGAGGCCAAAGACTTTTGGAAATGGATATGAAAGCATACCTGAGAT
CTATGATCCACATCTGGAATCTGGAATGAAATCTTCCAAGTCCAAGGATGTACTTTCTGCTGCTGAAGTAATGC
AATGGTCTCAATCTCTGGAAAACTTCTTGCCAACCAAACTGGTCAAAATGTCTTTGGAAGTTTCTTAAAGTCTG
AATTCAGTGAGGAGAATATTGAGTTCTGGCTGGCTTGTGAAGACTATAAGAAAACAGAGTCTGATCTTTTGCCCT
GTAAAGCAGAAGAGATATATAAAGCATTGTGTCATTGATGCTGCTAAACAAATCAATATTGACTTCCGCACTC
GAGAATCTACAGCCAAGAAGATTAAAGCACCAACCCACGTGTTTGTATGAAGCACAAAAGTCATATATACTC
TTATGGAAAAGGACTCTTATCCCAGGTTCCCTCAAATCAGATATTTACTTAAATCTTCTAAATGACCTGCAGGCTA
ATAGCCTAAAGTGAAGTGGTCCCTGGCTGAAGGGAATTAACAGATAGTATCAAGGCACGAAGGAATGTGCCAGTAT
GGCTCCCTGGGTGAACAGCTTGGCCTTTTTTGGGTGTCTTGACAGGCCAAGAAGAACAATGACTCAGAATGGAT
TAACATGAAAGTTATCCAGGCGCAGAGTTGAAGAAGCATAAGCAAGACAAAACAGAGAGACCGCAGAAGGAGGA
AGATACTGTGGTACTGTCATAAAAAACAGTGGAGCTCTGTATTAGAAAGCCCCCTCAGAACTGGGAAGGCCAGGTA
ACTCTAGTTACACAGAACTGTGACTAAAGTCTATGAACTGATTACAACAGGCTGTAAGAATCAAAGTCAACTG
ACATCTATGCTACATATTATTATATAGTTTGTACTGAGCTATTGAAGTCCCATTAACCTAAAGTATATGTTTCA
AATTGCCATTGCTACTATTGCTTGTCTGGTGTATTTTATTTTATTGTTTTGACTTTGGAAGAGATGAACTGTGTA
TTTAACCTAAGCTATTGCTCTTAAAACAGGGATCAGAATATATTGTAAGTTAAATCATTGGTGCTAATAATAA
ATGTGGATTTTGTATTAAAATATATAGAAGCAATTTCTGTTTACATGTCCTTGCTACTTTTAAAAACTTGCATTT
ATTCCTCAGATTTTAAAAATAAATAAATAATTCATTTAAAAA

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FIGURE 1134

MPGMFFSANPKELKGTTHSLDDKMQRPKTFGMDMKAYLRSMIPHLESGMKSSKSKDVL SAAEVMQWSQSLEK
LLANQTGQNVFGSFLKSEFSEENIEFWLACEDYKKTESDLLPCKAEEIYKAFVHSDAAKQINIDFRTRESTAKKI
KAPTPTCFDEAQKVIYTLMEKDSYPRFLKSDIYLNLLNLDLQANSLK

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FIGURE 1135

GAATTCCGGCAGGCACAACTCATCCATCCCCAGTTGATTGGAAGAAACAACGATGACTCCTGGGAAGACCTCAT
TGGTGTCACTGCTACTGCTGCTGAGCCTGGAGGCCATAGTGAAGGCAGGAATCACAAATCCCACGAAATCCAGGAT
GCCCCAAATTCTGAGGACAAGAACTTCCCCCGGACTGTGATGGTCAACCTGAACATCCATAACCGGAATACCAATA
CCAATCCCCAAAAGGTCCTCAGATTACTACAACCGATCCACCTCACCTTGGAAATCTCCACCGCAATGAGGACCCTG
AGAGATATCCCTCTGTGATCTGGGAGGCAAAGTGCCGCCACTTGGGCTGCATCAACGCTGATGGGAACGTGGACT
ACCACATGAACTCTGTCCCCATCCAGCAAGAGATCCTGGTCCTGCGCAGGGAGCCTCCACACTGCCCCAACTCCT
TCCGGCTGGAGAAGATACTGGTGTCCGTGGGCTGCACCTGTGTACCCCCGATTGTCCACCATGTGGCCTAAGAGC
TCTGGGGAGCCCACACTCCCCAAAGCAGTTAGACTATGGAGAGCCGACCCAGCCCCCTCAGGAACCTCATCCTTC
AAAGACAGCCTCATTTCGGACTAAACTCATTAGAGTTCTTAAGGCAGTTTGTCCAATTAAAGCTTCAGAGGTAAC
ACTTGGCCAAGATATGAGATCTGAATTACCTTTCCCTCTTTCCAAGAAGGAAGGTTTGACTGAGTACCAATTTGC
TTCTTGTTTACTTTTTTAAGGGCTTTAAGTTATTTATGTATTTAATATGCCCTGAGATAACTTTGGGGTATAAGA
TTCCATTTTAATGAATTACCTACTTTATTTTGTGTCTTTTAAAGAAGATAAGATTCTGGGCTTGGGAATTTT
ATTATTTAAAGGTAAAACCTGTATTTATTTGAGCTATTTAAGGATCTATTTATGTTTAAAGTATTTAGAAAAAGG
TGAAAAAGCACTATTATCAGTTCTGCCTAGGTAAATGTAAGATAGAATTAAATGGCAGTGCAAAATTTCTGAGTC,
TTTACAACATACGGATATAGTATTTCTCCTCTTTGTTTTTAAAAGTTATAACATGGCTGAAAAGAAAGATTAAA
CCTACTTTTCATATGTATTAATTTAAATTTTGCAATTTGTTGAGGTTTTACAAGAGATACAGCAAGTCTAACTCTC
TGTTCCATTAAACCCTTATAATAAAATCCTTCTGTAATAATAAAGTTTCAAAGAAAATGTTTATTTGTTCTCAT
TAAATGTATTTTAGCAAACCTCAGCTCTTCCCTATTGGGAAGAGTTATGCAATTTCTCCTATAAGCAAAACAAAGC
ATGTCTTTGAGTAACAATGACCTGGAAATACCCAAAATCCAAGTTCTCGATTTACATGCCTTCAAGACTGAAC
ACCGACTAAGGTTTTTCATACTATTAGCCAATGCTGTAGACAGAAGCATTTTGATAGGAATAGAGCAAAATAAGATA
ATGGCCCTGAGGAATGGCATGTCATTATTAAGATCATATGGGGAAAATGAAACCCTCCCCAAAATACAAGAAGT
TCTGGGAGGAGACATTGTCTTCAGACTACAATGTCCAGTTTCTCCCCTAGACTCAGGCTTCCTTTGGGAGATTAA
GCCCCCTCAGAGATCAACAGACCAACATTTTCTCTTCTCAAGCAACACTCCTAGGGCCTGGCTTCTGTCTGATC
AAGGCACCACACAACCCAGAAAGGAGCTGATGGGGCAGAATGAACTTTAAAGTATGAGAAAAGTTCAGCCCCAAGTA
AAATAAAAACCTCAATCACATTCAATTCAGAGTAGTTTCAAGTTTCACATCGTAACCATTTTCGCCCCGAATTC

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FIGURE 1136

MTPGKTSLVSLLLLLSLEAIVKAGITIPRNPGCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYNNRSTSPWN
LHRNEDPERYPSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKILVSVGCTCVTP I
VHHVA

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FIGURE 1137A

GGCAGGAGGCACGTGGGTTCTGAGCGTGTTCCTACGTCCCTGGAAGCCGGTCATTTAAGCTCATTCTCGCCACG
GCTTAGTCAACATGGGTCGCTCGGGAAAGTTGCCCTCTGGTGTCTCAGCTAAGTTGAAGCGCTGGAAGAAAGGCC
ACAGCAGCGACAGCAACCCCGCCATCTGCCGCCACCGTCAGGCCGCCCGCAGCCGCTTCTTCAGCCGGCCGTCAG
GAAGGAGTGACCTGACAGTCGATGCTGTGAAGTTACATAATGAGCTGCAGTCAGGGTCCTTGCGCTTGGGCAAAA
AAGCCCCGGAGACGCCCATGGAAGAAGAGGCGGAGCTGGTTCTCACCAGAGAAGTCCTCGGGTACCTTCCTGA
CTTTCCGACTGCACAAACGTCACCTTCAGCAAAGTACAGCGCTTCTGGGAGTCCAACCTCGGCTGCCCACA
AAGATCTGTGCTGTTCTGGCTGCTGTCACTGAGGTGATTTCGCTCCCAGGGAGGGAAGGAGACGGAGACTGAGT
ATTTCGCTGCTCTGATGACAACAATGGAAGCAGTGGAGTCCCCGGAGTCCCTGGCCGCCGTTGCTTACCTGCTGA
ATTGTCTCTGAAGCGTGTTCAGCCCTGTGCTTATTAAGAAGTTCTCTGATACCTCCAAAGCCTTCATGGATA
AAGTCAGCTCAGGCCAGCAGCGGCTCCACCTCTGTCTCCGATGGGTCTTTTCTGCTGGCCACCTTCTGCTGC
AAGCAAGACCTGGAGGCCTGGGGCTACCCCGTGACCTTCAGGTGTACCATGGGCTGCTGAGCTTCACGGTGC
CAAGCCCAAGATCCGGAAGGCTGCCAGCATGGAGTATGCTCAGTCCTCAAGGGCAGTGAATTCATGTTTG
AAGGCCCTGCCCATCATCTGCTGCCATTTCAGTCCCAAGTTCTGCTATCCAGGAGATTGAGAAGTCTGGAG
GCAAGGAGGCCACCAACAGCTGCACATGCTGACGCTGCTGAAGGACCTGCTGCCCTGCTTCCCGGAAGGCC
TGGTGAAGAGCTGCAGTGAGACTCTCCTCAGGGTCATGACCTTGAGCCATGTGCTGGTGACAGCCTGTGCCATGC
AGGCCTTTACAGCCTCTTCCACGCCAGGCCTGGCCTGAGCACCCTGTGACGAGAGCTCAACGCCAGATCATCA
CGGCCCTGTACGACTATGTTCCAGTGAGAATGATTTACAACCCCTGCTAGCCTGGCTTAAGGTGATGGAGAAAG
CCCACATCAACCTGGTGAGGTTGCAGTGGGACCTGGGGCTAGGCCACCTCCCTCGCTTTTGGAACTGCGGTGA
CCTGCTCCTTTCCCCACACTCGCAAGTGCTGACTGCTGCTACGCAGAGCCTCAAGGAGATCCTGAAGGAATGCG
TGGCTCCCCACATGGCTGACATTGGCTCCGTGACCTCCTCGGCCTCAGGCCCTGCCAATCTGTTGCCAAGATGT
TCAGGGCAGTGGAGGAGGGCCTGACGTACAAATTCATGCGGCCTGGAGCTCCGTGTGACGTGCTGTGTGCT
TCTTCGAGGCGTGTGGGAGACAGGCCACCTGTGATGAGGAAGTGCCTCCAGTCCCTGTGTGACCTGCGCCTCT
CCCCCATTTCCCCACACGGCGGCTCTTGACCAGGCAGTGGGGGCTGCGGTGACCAGTATGGGACCTGAGGTGG
TGCTGCAGGCTGTGCCTTTGGAAATTGATGGCTCTGAGGAGACTCTGGATTCCCACGGAGCTGGCTGCTGCCTG
TCATCCGAGACCATGTTTCAGGAAACGCGACTTGGTTTTTACCACCTACTTCTGCCCCCTGGCTAACACCCTGA
AGAGCAAAGCCATGGACCTGGCTCAGGCAGGCAGCACAGTGGAAATCTAAGATCTACGACACACTCCAGTGGCAGA
TGTGGACACTCCTGCCTGGGTTCTGCACAAGGCCTACAGATGTGGCCATCTCCTTCAAAGGGCTGGCACGGACGC
TGGGCATGGCCATCAGCGAGCGTCCAGACCTGAGGGTCACCGTGTGCCAGGCCCTGCGCACCTCATACCAAGG
GCTGCCAGGCAGAGGCTGACCGTGTGAAAGTGAGTCGCTTTGCCAAGAATTTCTGCCGATCCTCTTCAACCTGT
ATGGGCAGCCCGTGGCAGCCGGGGACACTCCAGCCCCCTCGCCGGGCTGTGCTGGAACCATCAGAACTTACCTCA
CCATCACTGACACTCAGTTGGTGAACAGTCTCCTGGAAAAAGCCAGTGAGAAGGTGCTCGACCCTGCCAGCTCTG
ACTTTACCAGATTGTCTGTCTGACCTGGTCTGTCGCTTGGCTCCGTGTGCTGACGAAGCTGCCATCAGTAAGC
TATACTCCACCATCCGGCCCTACCTAGAGAGCAAGGCCACGGGGTGCAGAAGAAGGCCTACCGAGTGTGGAGG
AGGTGTGTGCCAGTCTCAGGGCCCCGGGGCCTCTTCTGTGAGAGCCACCTGGAGGACCTGAAGAAGACACTGC
TGGACTCGCTGCGGAGCACCTCCTCACC CGCCAAGAGGCCCGTTTGAAGTGCCTCCTACACATCGTGAGGAAGC
TCTCAGCTGAACACAAGGAGTTCATCACTGCCCTCATCCAGAGGTGATCCTGTGCACCAAGGAGGTGTCCGTGG
GCGCACGGAAGAACGCTTTTGCAGTGTCTGTGGAGATGGGCCATGCTTTTCTAAGGTTTGGCTCGAACCAGGAAG
AGGCCCTGCAGTGCTACCTCGTCTGATCTACCCTGGCCTGGTGGGCGCGGTGACCATGGTCAGCTGCAGCATCC
TGGCCCTGACCCACCTCCTTTTCGAGTTTAAAGGTCTGATGGGGACCAGTACAGTGGAGCAGCTGCTGGAGAATG
TGTGCTGCTTCTGGCTCCCGCACCCGTGACGTGGTCAAGTCTGCACTGGGCTTCATCAAGGTGGCAGTGACTG
TCATGGACGTGGCGCACCTGGCCAAACATGTGCAGCTGGTGTGGAAGCCATTGGGAAGCTTTCAGATGACATGC
GGCGGCACCTTCGCGATGAAGCTTCGGAACCTGTTACCAAGTTTCATCCGCAAGTTTGGATTGAGCTGGTGA
GGCTGTTGCCCCGAGGAGTACCACAGAGTCTGGTCAACATCCGGAAGCTGAGGCCCGGGCCAAGAGGCACCGAG
CCCTGAGCCAGGCTGCCGTGGAGGAGGAAGAAGAGGAGGAGGAGGAGGAGGCCCGCCAGGGCAAAGGTGACA
GCATTGAGGAGATTTTAGCTGACTCAGAGGACGAGGAGGACAATGAGGAGGAGGAAGAAGCCGAGGCAAGGAGC
AGCGGAAGCTGGCACGACAGAGGAGCCGGGCATGGCTGAAAGAGGGCGGTGGGGACGAGCCCTCAACTTCCTGG
ATCCCAAGGTGGCCCAACGAGTCTGGCCACGAGCCAGGGCCAGGCCGGGGCAGGAAGAAGGACCACAGCTTCA
AGGTGAGCGCCGATGGCCGGCTGATCATAAGGGAGGAGGCAGACGGCAACAAGATGGAGGAAGAGGAAGGTGCCA

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FIGURE 1137B

AAGGCGAAGATGAAGAGATGGCTGACCCAATGGAAGATGTGATCATCAGGAATAAAAAGCACCAGAAGCTCAAGC
ACCAGAAAGAGGCTGAGGAGGAGGAGCTGGAGATACCCCCTCAGTACCAAGCTGGAGGCTCTGGCATTTCATCGCC
CTGTGGCCAAGAAGGCTATGCCTGGGGCTGAATACAAGGCCAAGAAAGCAAAAGGTGATGTGAAGAAGAAAGGCC
GGCCGGATCCCTATGCCTACATCCCCCTCAACAGAAGCAAGCTCAACCGCAGGAAGAAGATGAAGCTGCAGGGAC
AGTTCAAAGGCCTGGTGAAGGCTGCCCCGGCGAGGTTCCCAGGTGGGACACAAAAACCGCAGAAAGGATCGTCGAC
CCTGAAGGCCCAGGGCCCCCTGGGCTGCCCTGTGGTCCAGTCTGAGGCCCTTTCAGCCCCCAGGCTGCCTTGCCACC
AGCTCCAGGTGCTCAAGATTCTGGCAGAGCCTGGACTCAGGATGACTTGGAAGTGGGCTTGCTCTCAGAAGTC
CTGGATTTTGGAACTCCAAATGGAATCACCTTCAGAGACATCCCTGGTGCCTGGAGATGGGAATGTGGCCTCA
GTGCCTCTGAGTAGGTGCCATGAGGCACCTTTGCTTTCTGCCCAGAGTGGCCATGAGCACCAGAACAGATGATCT
CCATTTCCGCCAGCTGCCTGTAGCCACGTGGCATCCTGCCTGTGGTCTGGGTGAGATTTACTGTGACCAGATGTA
GAATAAATGTGTCTCATCCTGCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1138

MGRSGKLPSGVSAKLRWKKGHSSDSNPAICRHRQAARSRFFSRPSGRSDLTVDVAVKLHNELOSGSLRLGKSEAP
ETPMEEEAELVLTEKSSGTFLSGLSDCTNVTF SKVQRFWESNSAAHKEICAVLAAVTEVIRSQGGKETETEFYFAA
LMTTMEAVESPESLAAVAYLLNLVLRVPSVPLIKKFSDTSKAFMDIMSAQASSGSTSVLRWVLSCLATLLRKQD
LEAWGYPVTILQVYHGLLSFTVHPKPKIRKAAQHGVCSVLKGSEFMFEKAPAHHPAAISTAKFCIQEIEKSGGSKE
ATTLHMLTLLKDLLPCFPEGLVKSCSETLLRVMTLSHVLVTACAMQAFHSLFHARPGLSTLSAELNAQIIITALY
DYVPSENDLQPLLAWLKVMEKAHINLVRLQWDLGLGHLPRFFGTAVTCLLSPHSQVLTAAATQSLKEILKECVAPH
MADIGSVTSSASGPAQSVAKMFRAVEEGLTYKFHAAWSSVLQLLCVFFEACGRQAHFVMRKCLQSLCDLRLSPHF
PHTAALDQAVGAAVTSMGPEVVLQAVPLEIDGSEETLDFPRSWLLPVIRDHVQETRLGFFTTYFLPLANTLKS KA
MDLAQAGSTVESKIYDTLQWQMTLLPGFCTRPTDVAISFKGLARTLGMAISERPDLRVTVCQALRTLITKGCQA
EADRAEVS RF AKNFLPILFNLYGQPVAAGDTPAPRRAVLETIRTYLTITDTQLVNSLLEKASEKVLDPASSDFTR
LSVLDLVVALAPCADEAAISKLYSTIRPYLESKAHGVQKKAYRVLEEV CASPQGP GALFVQSHLEDLKKTL DLSL
RSTSSPAKRPRCLKLLHIVRKLSAEHKEFITALIPEVILCTKEVSVGARKNAFALLVEMGHAF LRF GSNQEEALQ
CYLVLIYPGLVGAVTMVSCSILALTHLLFEFKGLMGTSTVEQLLENVCLLLASRTRDVVKSALGFIKVAVTVMDV
AHLAKHVQLVMEAIGKLSDDMRRHFRMKLRNLFTKFIKFGFELVKRLLPEEYHRVLVNIRKAEARAKRHRALSQ
AAVEEEEEEEEEEP AQGKGSIEEILADSEDEEDNEEEERSRGKEQRKLARQRSRAWLKEGGGDEPLNFDPKV
AQRVLATQPGPGRGRKKDHSFKVSADGRLI IREEADGNKMEEEGAKGEDEEMADPMEDVIIRNKKHQKLKHQKE
AEEEELEIPPQYQAGGSGIHRPVAKKAMP GA EYKAKKAKGDVKKKGRPDYAYIPLNRSKLNRRKKMKLQGGFKG
LVKAARRGSQVGHKNRRKDRRP

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FIGURE 1139

GATAAACAACTTGATGCAGATGTTCCCCCAAGCCCACTATTTTTCTTCCTTCGATTGCTGAAACAAAACCTCCAG
AAGGCTGGAACATACCTTTGTCTTCTTGAGAAATTTTTCCCAGATATTATTAAGATACATTGGCAAGAAAAGAAG
AGCAACACGATTCTGGGATCCCAAAGACAATTGGTCAAAAGATGCAAATGATACACTACTGCTGCAGCTCACAAA
CACCTCTGCATATTACATGTACCTCCTCCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATCATCACCTGCTGTCT
GCTTGGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGACGGTGGCACAAGGAGGCCATCTTTTCCT
CATCGGTTATTGTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTTCTGGGTTTGGGCCATTTTCAGTT
CTCATGTGTGTACTATTCTATCTATTGTATAATGGTTTTCAAACCAGTGGGCACACAGAGAACCTCACTCTGTAA
TAACAATGAGGAATAGCCATGGCGATCTCCAGCACCAATCTCTCCATGTTTTCCACAGCTCCTCCAGCCAACCCA
AATAGCGCCTGCTATAGTGTAGACAGCCTGCGGCTTCTAGCCTTGTCCTCTCTTAGTGTTCTTTAATCAGATAA
CTGCCTGGAAGCCTTTCATTTTACACGCCCTGAAGCAGTCTTCTTTGCTAGTTGAATTATGTGGTGTGTTTTCC
GTAATAAGCAAATAAATTTAAAAAATGAAAAGTT

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FIGURE 1140

CAAGGCTGAACGTCCAGGTACCTCCACGCCCCTGATCGTGATGCGCGGGGCTGCTGGCCTGCAGCGGGAGATCC
AGGAGGGTGCCTACTCCGGGAGCTGCTACCATCGAGATGGCTTACGGCTGAGTATACAGTTTGAGGTGAGGCGGG
TGGAGCTCCAGGGCCCCACACCTCTGTTCTGCTGCTGGCTGGTGAAAGACCTCCTCCACAGCCAACGCGACTCAG
CCGCCAGGACCCGCTGTTCTTCCAGCCTGCCCGGCTCCACCCACTCTACCGCTGCTGAGCTCACCGGACCCA
GCCTGGTGGAAGTGCTCAGAGCCAGACCCTGGTTTGAGGAGCCCCCAAGGCTGTGGAAGTGGAGGGGTGGCGG
CCTGTGAGGGCGAGTACTCCAAAAGTACAGTACCATGAGCCCGCTGGGCAGTGGGGCCTTCGGCTTCGTGTGGA
CTGCTGTGGACAAGGAAAAACAAGGAGGTGGTGGTGAAGTTTATTAAAGAAGGAGAAGGTCTTGAGGATTGTT
GGATTGAGGATCCCAAAGTGGGAAAGTTACTTTAGAGATCGCAATTCTATCCAGGGTGGAGCACGCCAATATCA
TCAAGGTATTGGATATATTTGAAAACCAAGGGTTCTTCCAGCTTGTGATGGAGAAGCACGGCTCCGGCCTAGACC
TCTTCGCTTTTCATCGACCGCCACCCAGGCTGGATGAGCCCTGGCGAGCTACATCTTCCGACAAGTAGTGTGAG
CAGTGGGATACCTGCGCTTGAAGGACATCATCCACCGTGACTTCAAGGATGAGAACATCGTGATCGCCGAGGACT
TCACAATCAAGCTGATAGACTTTGGCTCGGCCGCTACTTGGAAGGGGAAAATTATTTTATACTTTTTGTGGGA
CCATCGAGTACTGTGCACCGGAAGTTCTCATGGGGAATCCCTACAGAGGGCCGGAGCTGGAGATGTGGTCTCTGG
GAGTCACTCTGTACACGCTGGTCTTTGAGGAGAACCCCTTCTGTGAGCTGGAGGAGACCGTGGAGGCTGCCATAC
ACCCGCCATACCTGGTGTCCAAAGAACTCATGAGCCTTGTGTCTGGGCTGCTGCAGCCAGTCCCTGAGAGACGCA
CCACCTTGGAGAAGCTGGTGACAGACCCGTGGGTAACACAGCCTGTGAATCTTGCTGACTATACATGGGAAGAGG
TGTTTCGAGTAAACAAGCCAGAAAGTGGAGTTCTGTCCGCTGCGAGCCTGGAGATGGGGAACAGGAGCCTGAGTG
ATGTGGCCAGGCTCAGGAGCTTTGTGGGGGCCCCGTTCCAGGCGAGGCTCCTAATGGCCAAGGCTGTTTGCATC
CCGGGGATCCCCGCTCTGCTGACCAGCTAAACACCAATTTCTTCTGCTTTTCTCCACTTGGTTTGGAATCACA
CAGTTTTTCAGGCTCCATCTGTTTGGAGAAAATACATTCTGAAGCATCCCCAATTCACCTTCTAAAACTCATGTG
CAGGTTTGATAAACACCAGAACAGAAGACAGTGATGCTGTATTATTTAGATTTATTACATAGATTTGGAATTCA
CTTTTTTCATGACCTAGAAAAAACATTCCAGTGTTCAACTGTTTTATATTATTAAAGGGCTTTTAATTTGTGAA
CTTCTGAAGGCATGAGTGTTTTCTTTCTACTTTTGTATATGTGCATGTTTTGTTTCTCTGACTTGGTATATG
CTCATCTGAGTGACGGATATGTGAAATTTGTAGAACTGGTTAGTCAAATGGCCAGACTATTTCAATTAATTTATTT
CCTCAAATGCTTTTCAAATTAAGCACCTTTGTTAGTAAACAGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 1141

GAATTCCGCGGGAGGCCACGGGCTTTCCACAGCGCGGGGGAACGGGAGGCTGCAGGATGGTCAAGCTGACGGCGG
AGCTGATCGAGCAGGCGGCGCAGTACACCAACGCGGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTC
CCGTCATTGAAAATCTAGGTGCTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAAAC
TGGATGGTTTTCTTTGTTGAGAAGACTGAAAACATTGTTAGTGAACAACAACAGAATATGCCGTATAGGTGAGG
GACTTGATCAGGCTCTGCCCTGTCTGACAGAACTCATTCTCACCAATAATAGTCTCGTGGAAGTGGGTGATCTGG
ACCCTCTGGCATCTCTCAAATCGCTGACTTACCTAAGTATCCTAAGAAATCCGGTAACCAATAAGAAGCATTACA
GATTGTATGTGATTTATAAAGTTCCGCAAGTCAGAGTACTGGATTTCCAGAAAGTGAACTAAAAGAGCGTCAGG
AAGCAGAGAAAATGTTCAAGGGCAAACGGGGTGACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAACCTTTTA
ATCCAGGTGCTGGTTTGCCAACTGACAAAAAGAGAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATG
CCATAGCAAATGCTTCAACTCTGGCTGAAGTGGAGAGGCTGAAGGGGTGCTGCAGTCTGGTCAGATCCCTGGCA
GAGAACGCAGATCAGGGCCCACTGATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAG
CAGTGAGGCAGATGTATAATAATAGGCCCTCTTGGAACAAGTCTTGCTTTTCGAACATGGTATAATAGCCTTGTT
TGTGTTAGCAAAGTGGAAATCTATCAGCATTGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGTAATATAAGTT
TTGAAATCTAAATGTCAATTTCTACAAATTATAAAAAATAAACTCCACTCTCTATGCTAAAAAAAAAAAAAAGGA
ATTC

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FIGURE 1142

MVKLTAEIEQAAQYTNVDRDRELDLRGYKIPVIENLGATLDQFDAIDFSDNEIRKLDGFLLRRLKTLLVNNNR
ICRIGEGLDQALPCLTELILTNNLSVELGDLDPLASLKSILTYLSILRNPVTNKKHYRLYVIYKVPQVRVLDQKV
KLKERQEAEMFKGKRGALAKDIARRSKTFNPGAGLPTDKKRGGPSPGDVEAIKNAIANASTLAEVERLKGLLQ
SGQIPGRERRSGPTDDGEEEMEEDTVINGS

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FIGURE 1143A

CGGCCCCGCGGTAGGCGGTGGCGACTCTGCCCGCTCCCGTTTCGGCGCGGTGACCGAGCGCCCCGGGAGGCTCGAG
GACCGCATCGTGTGCCGTTGCGCCAAGCCCGGTCTGCGCCGCCATGGCCCCAGTGCAGCTGGAGAACCACCAGC
TGGTCCCGCCCCGGAGGCGGCGGCGGGGAGCGGCGGACCCCGTACGCCCCAGCCCCCTCTCCCCCGGGAGCCG
CCGTGGCGGCGGCCGCTGCAGCTGCGGCTAGCCCGGGCTACCGGCTGAGCACCCCTCATTGAATTTCTGCTGCACC
GGGCCTACTCGGAGCTTATGGTGTGACGGACCTACTGCCAAGGAAATCTGATGTGGAAAGGAAAAATAGAAATAG
TGCAGTTTGCTAGCCGGACACGCCAACTCTTCGTTTCGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGGCA
AAGTGGAAAAATGTGCGATGATTTCAAGCTTTTATAGTCAGCAAGCCATCCTGTTTGTGGACACTGCTGATCGCC
TGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCACGCCCTGCCTAGTTTTGCCATCCCATATGCCATTGATGTAC
TAACTACTGGATCTTACCCACGGCTGCCAACCTGCATTAGGGATAAAATTATTCCTCCAGACCCAATTACCAAAA
TTGAAAAACAAGCCACACTCCATCAGCTGAATCAGATTCTTAGACATCGGCTTGTAACCACAGATCTTCCTCCTC
AGTTAGCAAACTTACAGTTGCAAATGGCCGGGTGAAGTTTCGTGTTGAAGGAGAATTTGAAGCCACCTTGACTG
TGATGGGAGATGACCCGTGATGTTCCATGGCGTCTTCTCAAGCTAGAAAATCTAGTTGAGGATAAGGAAACAGGAG
ATGGGCGAGCTTTGGTTCATAGCATGCAAATCAGCTTCATCCATCAACTGGTGCAGTCTAGGCTCTTTGCTGATG
AGAAACCTCTTCAGGATATGTACAACCTGCCTACATTCTTTCTGTTTATCACTTCAGTTAGAAGTGTTACATTCCC
AAACTCTAATGTTAATCCGAGAACGGTGGGGAGACCTTGTCAGGTGGAAAGGTATCATGCTGGAAAGTGCCCTCT
CCCTTTTCAGTTTGGAATCAACAGGTTCTTGGGAGAAAACTGGAACAGCATCTGTTACAAAGTTACAATTAAAA
TTGATGAGAAATGATGCTCCAAGCCTTTACAGATTTTTACGATCCTCCTTTGCCAGCTTCTGATTCCAAATTAG
TAGAAAGAGCCATGAAGATCGACCACTTATCAATAGAAAAACTCCTGATTGACAGTGTCCATGCAAGAGCTCATC
AGAAGCTCCAAGAACTGAAGGCCATTCTTAGAGGCTTCAATGCCAATGAAACTCTTCCATAGAGACTGCACTCC
CAGCTCTTGTTGTTCCCATCTTGGAGCCCTGTGGTAATTCAGAGTGTCTGCACATTTTTGTAGATTTACATTCTG
GAATGTTTCAATTGATGCTTTATGGACTTGACCAGGCCACTCTGGATGACATGGAGAAGTCTGTGAATGATGATA
TGAAACGAATCATACCCTGGATTTCAGCAACTTAAGTTTTGGCTTGGACAACAGCGTTGCAAGCAGTCTATAAAAC
ATCTGCCTACGATAAGCAGTGAAACATTGCAGCTTTCCAATTACTCAACTCATCCTATTGGAAACCTTTCTAAGA
ATAAACTGTTTCAATAAACTTACCCGCCCTTCCACAATACTACATTGTTGTGGAGATGTTGGAGGTTCCCAATAAAAC
CCACACAACCTGTCGTACAAGTACTACTTTATGCTCTGTGAATGCTGCAGATCGTGAAGACAGCCCTGCAATGGCAT
TGCTGCTGCAGCAGTTCAAGGAAAACATTAGGACTTGGTTTTTCGTACAAAACCGGGAAACAGACCAGAACCA
ATGCCAAGCGCAAGTTGTCTGATGATCCATGTCCAGTAGAATCCAAGAAAACAAAACGAGCAGGAGAAATGTGTG
CCTTCAATAAAGTTTTAGCCCACTTCGTGCTATGTGTGATACAAATATGCCATTTGTAGGACTTCGGTTGGAGT
TGTCCAATCTGGAGATTCCACATCAAGGAGTGAAGTGAAGGTGATGGCTTCAGCCATGCAATTTCGCTTATTAA
AAATTCCTCCCTGTAAGGGTATACTGAGGAAACCCAAAAGGCTCTGGACCGCTCTCTTCTTGATTGCACTTTCC
GATTACAAGGTAGAAATAACCGCACTTGGGTAGCAGAGTTAGTGTGTTGCAAATTGTCCACTTAATGGCACTTCTA
CTAGGGAGCAAGGACCATCCCGGCACGTTTACCTGACATATGAAATCTGTTGTCTGAGCCTGTTGGTGGTAGAA
AGGTGTTTGAATGTTTCTTAATGACTGGAATAGCATTGCACGATTATATGAGTGTGTGTTGGAATTTGCACGTT
CTCTACCAGACATACCTGCTCATCTAAATATTTCTCAGAAGTTCGTGTTTATAATTACCGAAAACCTTATCTTGT
GTTATGGAACCACCAAGGGAAGCTCAATTAGTATCCAATGGAATTCGATCCATCAAAAATTCCACATTCTTTGG
GAACTGTTGGCCCAAACTCAGGTTCAGTAAGTGTACAATAACCATCTCCATCAGCTTCAAGAAATGTTCAACA
AAACACCAAATGTGGTTCAGTTATTACAGGTACTGTTTGATACTCAGGCTCCATTAAATGCCATCAACAACTCC
CCACTGTGCCGATGTTGGGCTTGACCCAGAGAACCAATACTGCCTACCAGTGCTTCTCCATTCTGCCACAGTCGT
CCACCCACATCAGACTGGCCTTCAGGAACATGATTGCATTGATATATACTGCCGGAGTCGAGGTGTTGTGGCAA
TACGGGATGGTGCCTATAGTCTTTTTGATAACAGCAAAGTGAAGGTTTCTATCCTGCACCAGGACTAAAGA
CGTTTCTGAATATGTTTGTGACAGCAATCAGGATGCTCGAAGAAGGTCTGTAAATGAGGACGATAATCCCCCTT
CTCCTATAGGAGGAGATATGATGGATTCTTTAATATCGCAGCTCCAGCCACCACCCAGCAACAGCCATTTCCAA
AGCAGCCAGGAACATCAGGTGCTTATCCTCTTACTTACCCCCCTACATCTTATCATAGCACAGTCAATCAGTCTC
CCTCAATGATGCACACACAGTCTCCAGGAAATCTGCATGCTGCCAGCTCCCCAGTGGGGCTTTGAGAGCCCCAT
CACCAGCGTCATTTGTTCCAACCTCCTCCCCATCCTCGCATGGAATCTCAATAGGACCAGGGGCCAGTTTGTCTA
GTCCACATGGAACCTTACCCTAGTTCCCCATACACTATGGTGTACCAAGTGACGAGCAGGGAACGGCCAG
GATCTCCTCAAGTGTCTGGCCCCCTACCAGCAGCAGCATGCCTGGAATGTCACCAGCCAACCCCTCACTACATT
CTCCGGTTCCAGATGCTTCTCATTCCCCCTCGAGCTGGAACAAGTTCTCAAACAATGCCAACAAACATGCCTCCAC

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FIGURE 1143B

CTCGTAAACTACCTCAGCGCTCTTGGGCGGCATCCATACCTACCATCCTCACTCACAGTGCCTTGAACATTTTAC
TGCTGCCCTCTCCAACCTCAGGCCTTGTGCCCGGCCTGGCAGGTAGTTACCTTTGTTCTCCACTTGAGAGATTCC
TTGGATCAGTCATCATGAGACGACATCTTCAAAGAATTATTCAACAAGAAACGCTGCAGCTGATAAATTCTAATG
AACCCGGAGTGATCATGTTTAAAGACTGATGCACTGAAATGCAGAGTAGCTCTTAGTCCCAAAACCAACCAACGC
TTCAGCTAAAATTGACACCTGAAAATGCAGGACAGTGGAAACCTGATGAACTTCAAGTTTTGGAGAAATTCTTTG
AAACAAGAGTTGCAGGACCACCATTTAAAGCTAATACGTTAATAGCCTTCACCAAGCTATTAGGAGCTCCTACAC
ACATCCTCAGGGATTGTGTGCACATTATGAAGCTGGAGCTGTTCCCTGACCAAGCAACACAGCTAAAATGGAATG
TTCAGTTTTGCCTGACGATCCCTCCCAGCGCGCCGCCGATTGCACCTCCTGGGACGCCTGCTGTGGTGCTGAAAT
CCAAATGCTATTTTTCTTCAACTAACTCAGAAAACATCGGTCCCTCCCAAGAACCTGTTAGTATTATAGTTC
CAATCATTTATGACATGGCTTCAGGTACAACCCAGCAGGACAGATTCCAGACAGCAGAAGCTCTTCTGTTGCTG
CTCCCATGATGGTCAGCAACATTCTGAAGAGGTTTGAGAGATGAATCCACCACGACAAGGTGAATGCACAATAT
TTGCAGCTGTTTCGTGATTTAATGGCTAATCTTACACTGCCCCCTGTTGGGCGTCCATAGACACTATTGTTTTTAA
ACCAGGAAGGCTGACAGATGAGACAACAAAAAATCTGAATTCAGCCTTCAGTTTAAAAAAGGAAAAAGGACTTT
TTTTTTAACTTTAAGAGCTAAATATTCTAACTGGCAAAAATTTTTCAGGGTGCACCTTCTTTCATCAAAATGATC
ATCCATCTTTTGTATAATGAACCTGTATAGTGTGTTTAAATGGGACACATTTCAAAGGAAATAAATCAGTGTCCG
TTTGCCAGTAATAAATTTAATATTCTGTTTTTATACTATAAAGTTATGAAAATGCCAACTTGTTTATTTAATTGT
TTTCTTATGTTTTGGGTGTAATAGTCCTTTTTTGGTTTTTGTGTTTTTAAAGGAGGTCTGTCAATTTTTGAA
TACTGTAAACTGTGATAAACTTTATATTGAAGCTGTATTTAATATGACCGCTTGAATCCTTACATGAAATGT
TCTGGGAGTTGTTATAAACACACCCCAAGGAAGCAATATTTAATAAACTAGGTCAAAAACAAAACAAACAGTG
ACACTCACTTGTGTGTATATAAACTCTAGAGACATCTTAGGCCCTCCCTTCATCTTTAACCTGGTGGATGGAGCC
AGTTATTAATTTATAATAATACATGTCTGAAATTTGACCAAAAACATCTTCTTATGTCAAGGTTAATATATTTT
CTTCAGACATTCCTAACTTGACTAGTGGTTAACATTTAGCACCTTGGTTGTCTTTCAATATATAGGATTGGGTG
AAAAATAAGGAACCTTAGTCTTTGAGAAGGGACAGTATGTGGTTCGTATTGATCAAGGATCCCAATAATGCAATC
ATTCTCATCTGTTGAGGATGTGGGAACCTTTCTGTGCAGGAAAATTTAGTTTACAGAATACTTCTGCATACAACAT
TAATTAGGAAACAAAGAACCTTTAATGCTGTACCTCTGCATGAAGTTTCTGTGAGCTTTCTTTATCTTGCTTAACT
TATCCTCCTTTCCCTCCCAACAAATTTGGGATTGTTCTAAACAATTTCAATTTAATTCATTGTCAACAAAACGA
TAGAATGTTTTGCTTGGAAGAAACCTGGTCCATTCCCTCATGTGAAGAATCCCGAATCCTGGGCCTGTCCAGG
GTCAAATGGAGTTTTTGGTATTAATACATCTCTGCAGGGTTTCTTTTTGGAGCACTGTGCTGTCTTTCCTAGTCA
GTCAGGGACTTTTTTAAGCTTCAAAGAACATGGTCTGATGCAAAGGTCTTCTACCGACTTCATGGTATTTAGGAA
AAATTTTTAAGTGATAATACCATGCCGAGTTACCTGGTCACTGTAATACTGGTCTCCATTAAAATGTAGATGCT
TTGTCTAATTCCACTTCAAGATGATTTAATTGAGCTTCTATAACTATCAACTATCAAATTCAGTTTCAAGTATC
TCACTGTACCTATATCATATCTGTTCTCAACTTTGTTTGATTCTCCACTCATTTTCAATCAGAGTTGAAGCCTTC
TTTGCCCTTTCTTCTTTGTCTTATTCTGCCTTCATCTCCCACTTCTCACCCAACCTCTGCCACTGTTTCAGGAGCAG
TTGACTAAACTTTTATCCTTCCTTTAACTTAATCTTTTTATCCTTCTGTTTTTAGTTCTTACAGTGGTAATCACA
TCAGTTTGGCAATCTAAGATGTCTTTATCAAGGGTCAGCCCTTTTCTATTGAGCTGAATCTTTTCTTTTCATGT
AGAAATCTACATGTATATACAAGAAATGTATTTTTATCTGCAGGATAATATTGTTTCAAATAATTTTATTAAGAG
TTAACTTTTTAGGTATTTTCCCTTTTAAATGTGGTTTTGAAATGTTAATTGCATTTTACACATGATGCATTTCAGT
GGACACTCTTTTTTCTAATTATAACTCATCTCTGAATGCATTGTGCCAATCAAGAGTAAGATAGGATTTCAGTGC
GCAAAATTTGCTTTTGATGCTTATTAAGAGTAAACCCATGAATTTGAATTTTTATATTATGCTTGGTACTTGGAA
TTGATATATACCTTATTAAAGCTTGAAAACATTTAGCATTTGAATAGTAAGTTTCATCACAAATCATGTCTTTTG
CCTCTTTTGTACCCAGGTTTCGATCAAGGGGACTGGATGCCCAAGTGATTTTCTCTAATAATCGGGTTGGGACTT
AACITTAAGGTGTTTTCAATGTGATTTTAGTATTTACAGTAATAAATAAAATTTATACAAAGTTTCAGAGAATA
CCAACCTCTCTAGTTAATTTTGATGAAGATGTTTTCATTAATAGTCTGGTTTAGTATTAATTTAACCTTGAAATAA
GAAATTGGTCTGATTGTCACCTTCATTTTCCATCTGCTGAAATGCCATTTCAGAATGTATAAAAGTACTTTC
AGAATTAGAAGAAAAGTGAGAGCTTCAGCAGAACGTGTCAAGTCGCTAATAACAGGAGTCGAACCTTATGTTTGA
AAATTAAGTGAAGTGAAGTGAAGCATAAACTAAAATTTATATGACTTTGAATTTAAGAACCCTAATAACT
GTGTTCTAATTAACACAGTAATCTGTTTCAGCCAAAGGATACTAACAGCCATTCTTTGGACTGTGGTTAATTTGAT
AACTTCAAGAAGTTATAACTTTGCTACCCTGGATTCTGATGCAATTTCAATATAAAAAGTTGTTCTTTTCATAGT

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FIGURE 1143C

TTTTCCCCCAAAGAAGTGCCTATTACATTTTACCTTAATGTTTATTTATCATCCAAGTGTCTTGATATAAAA
TCAGTATACAGAAAATTTTAAGAGAACTTACATTCAAGGGACATAGAGGGAAAATGTTAATGTGTATTTTATTGT
TTCTTGTGGAATTTTTTTTTTTCATTTCGGTTTGAGAATGGACAGTGTGTCTAAGGATGTGATTTAAATTTACTTAGG
ATGGATTTAGCATTGAGGTTATTAAGACAAAGTTAGCAGAGGCCAGCCAGCACTGTGCTGCACAACCTCCAGGAAC
TCCATGGTATGCTCACAATTTTCTGCAAGTTGCCTCCACTTCCAAGTGGCCAGTGATTTGTTAAAATACCTTGCC
CAAGAATATAACTGATTGATGAAAGGGCATATTTAGGTCAATATAAAATAATAGCAAGTATTTACTGAGAGCTTA
CTGTGTGCTAGGCATTTTCTTAATATTTCAATGTGTATTTAATCCTCACAACAACCCAATGTGGTAGGTTATTGA
TATCCTCTTCTTAAAAATGAGTAAATGGAGGCCAGAGAAATGTAATTTGCCTGAGATCAAATTAAGGTTGCTTA
AGATCAAACCTGCTAAGAAGGGGCAGTTTGAGTCTGAGCTAGTGCTCCTAAACACTGGACATTTTTGCTGTGAACC
ACAGTCGGGAAGGTTTAAATGTTTAGACTCTTTCCTCAGAGGCTTTTAACTACACACAATTTTGACATGTTTCCA
AGCTCAGAAAGCTCATTAAAAACAATAAACTG

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FIGURE 1144

MAPVQLENHQLVPPGGGGGGSGGPPSAPAPPPPGAAVAAAAAASPGYRLSTLIEFLLHRAYSELMVLTDLLPR
KSDVERKIEIVQFASRTRQLFVRLALVKWANNAGKVEKCAMISSFLDQQAILFVDTADRLASLARDALVHARLP
SFAIPY AIDVLTGTSYPRLPCTCIRDKIIPDPFITKIEKQATLHQLNQILRHRLVTTDLPPQLANLTVANGRVKFR
VEGEFEATLTVMGDDPDVPWRLKLEILVEDKETGDGRALVHSMQISFIHQLVQSRLFADEKPLQDMYNCLHSFC
LSLQLEVLHSQTLMLIRERWGDVQVERYHAGKCLSLSVWNQQVLGRKTGTASVHKVTIKIDENDVSKPLQIFHD
PPLPASDSKLVERAMKIDHLSIEKLLIDSVHARAHQKLQELKAILRGFNANENSSIETALPALVVPFILEPCGNSE
CLHIFVDLHSGMFQLMLYGLDQATLDDMEKSVNDDMKRIIPWIQQKFWLGQQRCKQSIKHLPTISSETLQLSNY
STHPIGNLSKNKLFIKLTRLPPQYYIVVEMLEVNPKTQLSYKYYFMSVNAADREDSAMALLLQQFKENIQDLVF
RIKTGKQTRTNAKRKLSDDPCPVESKKTKRAGEMCAFNKVLAFVAMCDTNMPFVGLRLELSNLEIPHQGVQVEG
DGFSHAIRLLKIPPCKGITEETQKALDRSLDCTFRLQGRNNRTWVAELVFANCPNGTSTREQGPSRHVYLTYE
NLLSEPVGGRKVVEMFLNDWNSIARLYECVLEFARSLPDIPAHNLNIFSEVRVYNYRKLILCYGTTKGSSISIQWN
SIHQKFHISLGTGVPNSGCSNCHNTILHQLQEMFNKTPNVVQLLQVLFDTQAPLNAINKLPTVPMGLTQRTNTA
YQCF SILPQSSTHIRLAFRNMYCIDIYCRSRGVVAIRDGAYSLFDNSKLVEGFYPAPGLKTFNMFVDSNQDARR
RSVNEDDNPPSPIGGDMMSLISQLQPPPPQQQPFKQPGTSGAYPLTSPPTS YHSTVNQSPSMMHTQSPGNLHAA
SSPSGALRAPSPASFVPTPPSSHGISIGPGASFASPHGTLDPSPTYTMVSPSGRAGNWP GSPQVSGPSPAARMP
GMSPANPSLHSPVPDASHSPRAGTSSQTMP TNMPPPRKLPQRSWAASIPTILTHSALNILLPSPTPGLVPGLAG
SYLCSPLERFLGSMIMRRHLQRI IQQETLQLINSNEPGVIMFKTDALKCRVALSPKTNQTLQLKLT PENAGQWKP
DELQVLEKFFETR VAGPPFKANTLIAFTKLLGAPTHILRDCVHIMKLELFPDQATQLKWNVQFCLTIPPSAPP IA
PPGTPAVVLKSKMLFFLQLTQKTSVPPQEPVSIIVPIIYDMASGTTQADIPRQQNSSVAAPMMVSNILKRFAEM
NPPRQGECTIFA AVRDLMANLTLFPVGRP

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FIGURE 1145A

GGGGCACTGAGGAGCGGGCGCCCGGGGGCAGCGAGGAGCCCCGATGCAGGGTTCTGCGCGTCATTTCCGGTCCCGC
GGGCGCCCCGTGAAGCCCACCTGGATCCGCCAGCGCTGTGCCACTCCCCAGTGCCGAGCTCCGAGCTGTCTCCGC
GGCCTCGCGCCCCGGCCCCCTCCACCGCGCACCTCTTAGGCCCCGCCCCGCCAGCGTCCCTTTGTTGTGAAGGCGCCG
GGGCCTAGCGCTATGCCTGCGGCGGAGACTGCATCAGGCTCTCGCGTCTGCTTCTGCGCTTTGCCTGGGAGAGGC
CCTGGTGGCCTCGTTCCCTGGCGCCCGGAGTCCCTGCTGCGGCCCCACCCCCGGGCGGTACGGTGACCCATGCTG
CCCAGCCTGGAGGTAAAATCGTTCGTGGCTGTGGCTTCAGCATGTGCTCCTCGGTGAAAACCCCAGCACTGGAAG
AGCTGGTTCCTGGCTCCGAAGAGAAGCCGAAAGGCAGGTGCGCTCTCAGCTGGGGCTCTCTGTTTGGTCAACGAA
GTGAGAAGATTGTTTTTGCCAAGAGCGACGGCGGCACAGATGAGAACGTAAGTACCCTGACCGTCAACGAGACCA
CGGTCAATCGAGTCAGACTTGGGTGTGTGGAGCTCGCGGGCGCTGCTCTACCTCAGCTGTGGTTCCTTCTTACGT
TCTGCACGCTCTTCCTCAACAAGTACATCCTGTCCCTGCTGGGAGGCGAGCCCAGCATGCTAGGTGCGGTGCAGA
TGCTGTCCACCACGGTTATCGGGTGTGTGAAAACCCCTCGTTCCTTGCTGTTGTATCAGCACAAAGGCCCCGGCTTT
CCTACCCACCCAACTTCCTTATGACGATGCTGTTTGTGGGTCTGATGAGGTTTGCAACTGTGGTTTTGGGTTTGG
TCAGCCTGAAAAATGTGGCGGTTTTGTTTTGCTGAGACGGTGAAGAGCTCCGCCCCCATCTTACGGTGATCATGT
CTCGGATGATTCTGGGGGAGTACACAGGGCTGCTGGTCAACCTCTCCCTCATCCCAGTCATGGGCGGGCTGGCGC
TGTGCACGGCCACTGAGATCAGCTTCAATGTCTGGGGTTCTCGGCCGCACTGTCCACCAACATCATGGAAGTGT
TGCAAAATGTTTTTCAAAAAGCTGCTCAGCGGGGACAAATACAGGTTCTCGGCCCCGGAGCTGCAGTTCTACA
CCAGCGCCGCTGCGGTGGCCATGCTCGTCCCGGCCCGGGTTTTCTTTACGGACGTCCCAGTGATCGGGAGGAGCG
GGAAGAGCTTACGTACAACCAGGACGTGGTGTCTGCTTCTGACAGACGGAGTCTGTTCCACCTTCAGAGCG
TCACGGCGTACGCCCTCATGGGGAAAAATCTCCCCGGTGACTTTCAGCGTCGCCAGCACCGTGAAACATGCCTTGT
CCATCTGGCTCAGCGTAATCGTTTTTCGGCAACAAGATCACCAGCTTGTGCGCCGTTGGCACAGCCCTGGTGACCG
TTGGGGTCTCTGCTCTACAACAAAGCCAGGCAACACCAGCAGGAGGCGCTGCAGAGCCTGGCTGCAGCCACTGGCC
GGGCCCCAGACGACACAGTGGAGCCGCTGCTTCCACAGGACCCCAGGCAGCATCCCTGAGAGCAGGAAGCTGCCA
GCTGCTGCTGTCTCGTGACACTGCATCCCCAGAAATGGGCAGGGACGCCCTCCTCCATGGCCCTGCTGGGGTG
CAGGACATGGGGAGCTAAGTTGGCCATTGCTGCGGCTTTCTCGGTTTGTGCGGTGAAGACCAGCAGAAACTCAAA
CTGGGGATTCCAGGTATCAGCTTCCCTGGAGTAGACACCAGACCAGTAGCTGACTGTGTCCGCCGAGCCCATCCCC
GTGTAATGTGAAAACAGCCTCTGAGGCTCCCATGCTGGGGGTGCCACTTCTCTCTGGGCGACACCCAGGGTC
CACCGGGAGCCAGAGGTGGGTCCAGTGCCAACGAGAGCCGCTCCCTGCCACAGCCAAGAGAGCCCTCGGCTTCCC
ACACCAGCCATCGAAGGCCCTGAGGCCCTGGACGGCGGCAGACTGGCCCTGGGCATGAGGCCACAGAGCAGGGC
CGAAGGGAGGGGACAGAGGGCCCTGGAAGGAAGGGTCTCTGCTGCCACGGTGGGCACTCAGAACTTCTCCCCAC
CTGACCCAGGGCTGTGGGCATCCTCAGACTATCCAGAGGCATCGCAAGCCTCAAGCTGCAGCAATTGCACGGCAC
TCAAGGGCTATGACCACGGAGGCCGTTTCTGAGTCTGCTTCTGTTTGAAGGAAGGCCCCCTACCTCTTCCACACCCTGC
CCTCCTATCCCTTCCACACCCTGGGCTGCATGAGCTCCCCGCAACCCAGGGCACCCCTGCCCTCCTACCTGTGGG
GGTTTTCCAGCCCTGAGGTTGAGGACAAACCTCTCGTGTTTAACTTGGGAGGAGATGTGTACGTTCTTTTCTTTT
TTGGACTCTGAGTATGAGGCAGGCTGTTCTGAGGTCCCGTGGGGTGAGCCTGTCTGTCTCCTCCCTCAGAGCCCAC
CGTTTCTATCATCATCTAGCACCTGTCCGGTTCCCCACGTGAGCCTTGGGCAGGACGCTGCAGTGTGATGGTTT
GGGTTACGTGGCGTTTACCTGGGCGCCGTCCTTGCTGAAAAAGGAAACGTCCACACTGAATGTTTCTGGGGCGCG
TGGTGTGTGTCAGGCGCCCAACCCTGTCCACTCTCCCCAAGGGACAGTAGTACGGCACACTGGGGCCACCAGCCA
GCTCAACTCATCTCCTGTGTACGCACCCCGAGGGCGCAGGAGGCTGAGGAGTGGCTACTGGAGCCGTGTGT
TAGGCAGAGGCTTCTGACCATGTCTGAGCTCTTTACCCCCAATCTCGCAACCGGCGGATTCCCATGCCCGGTGCA
GCCTGTTGCCAGCCAGCCTTTGAGACCCAGAGCTCCAGGGCTTGTGAGAGGACAGATGGGGCTCCAGTGGTCCCG
AGTCTCATTTCCCTGCTGCTCTTTAGGCCCTTTGGCACCCATGGTCACTTCACTGGTTTTCCATTTGGCTTCTCA
CCTGGGAAATACAAAAATAGCCCCCTCTGAAGATAAAATCGTTTCAAGAACAGAGCAATAATTCTGACTCATTAAC
TTCTACCTACTCAAAAAAGTCTGCCATGATGATGGACCGAAGTGAGGCTTTTTTAACCCACAAGTAACCTTTTTAT
TTTTTTGAGACGGTCTTGCTCTGTACCCAGGCTGGAGTGAGTGCCATGATCTTGGCTCGCTGCAGCCTCGACT
TCCTGGGCTCAAGTGATCCACCTCAGCCTCCCATGTGGCTGGAACCGCAGGCACGTGCCACCATGCCTGGCTATT
TTTTTGTGAGCTGGGCTCTCGCTTTGTTGCCAGGCTGGTCTTGAACCTCCTCGGCTCAAGCAATCCTTCCCACT
CAGCCTCCTGTAGTGTGAGAATATAGGCGTGGGCTACTACACCTGCTTACCGCGCTTCTATAAAACCGCTGACC
TGTGTGTGGAGGACAGGCCAGGTGTGTGCTCACTGCGCTGCGAAGATGTTTGTACGTGACTTTCCTGGGTTT

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FIGURE 1145B

CCATTTCTTTTTTCTGCTTTCCTCAAAAATAATAGAAGACCGGCTGCGGTAGCTCAGGCCTCTAGTCCCAGCA
CTTTGGGAGGCTGCAGATGGCGGATCACAAGGCCAGGAGTTCGAGACCAGCCTGGCCAACATGATGAAACCCTGT
CTCTACCAAAAAATACAAAAATTAGCTGGGTGTGATGGTGGGTGCCTGTGGTCTCAGCTACTCAGGAGGCTGAGGC
AGGAGAATTGTTTGAGCCCCAGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCCATTGCACTCCAGCCTGGGCAA
TCCAAGATTCCGTCTCAAAAACAAACACTATTAGAAAATGCTCTGGAGGTGGCGGGGAGTTGTTGATTTGTG
AGATTGAAAGCAACTCCCAGGGTGGCCTTGTCCACCTCCCCATCGAGAATATGGCTGCCGGCCTCTTTGA
ATTGTGGTCTGGCATAAGGAGAGGTGCAGGCGCCTGGTTCTGAGCACCTTGGAAATTTCCAGCCGCACAGCATC
TGGTGCCTTCCCCTCCACCCTCACAAGGAGCTGCCATCCTGTTTGGATTTTCTGTTTGTGGACCAGAAACAAACG
TTTCCAAAGGATTAGCAAATAGGTTGATTTCTGTGTAAACGCTGCTCTGGGGCCTCTTCTCATCCTGGCAGA
AGCCTGGAGCCCATGAGGCAGCCAGCACTGTGCCCTTGTCTAGTCGTGCTGTCCCTCCCTCTCCCTCAGTC
TCCATGCCCAAGTCAGTTTCCAGCCGCTGGTCTTCATGGCATTCCCAGCACAGCTGGACACCAAGAGGCA
TCCAAGGCCTGGCTTGGCCGTGTTAACGATTGTACAGACATTTTTTAAATAACTTTGTGTAATACTTTTCT
ATAGTAAGTTCTTGTGAACTGTACAGATGAGCTTCTAGGAACACACCGGGTGTGGTTACTTCCACTGGGT
GTCCATGGTCTGGTCTGTGCCTTTGTAAACAAACAGAACACTTGAACCACCTTCCGAATTGGGTCAATCGGCT
TCTTACATTGATACTTAGAGATTTGCAGCTCTCTAACTTTCAAGGAAACTTCCCCTACTGAAAGGCATAAAAAAG
GTAAAAAAGAAAATCCGAGAGTCCCAATTCCCTGTATAACAGCATTAAATAATCTGCCTGCCTGGAAAGATGA
GAACACTGTTGCACAACCCAAAATGTGTTTTTAATTTGTGAAAATTACCATGGTGAGTCAGACAGTCATTTTAA
ACAGCTGAACAGAGACTATCATCAGCAAATAGAGCTCAGCTTTGTAGCTGCCTTTAAATCCTTGTCCCAATCC
GGTGAGCTCTGCTTGTGCGCCGCGCTCCTGGGTGATCACTCAGACGGGTGAGTGGGAATAACGGGCCAACAG
ACAGCTTTTTTACATGTGTCCAAAGGATGGCCTTTTCAAGGCCTGGAAGTATTTCACTGTTGGAAGAAGTAAACAA
GAATGACATTCCAGATGGAAATAGAATTCTCTCTCTTGCCTTTGACCAACATGGTACTAAGGGGTTTCTTCTTC
CCAATGTATGTACGTGCCCTGCTGGGGGCCTTACTTTATAGAATGAGAGCATCCGAGCTTCCCTAATGAATCTGG
CTAGTTCTGTGCTCTGGCTGAGGATACAGGAGTGGGACATCCACTCTCGGATCCCTCAGAGCACAGAAACCTTCAG
CTTTGCTGTCTCTGAAGTATTTCCCTCCAGTTTCCCTGCGGGCCCTATGTTTGAGTTTGATGGCTGCTGGATCCT
CACTCAACGAAAACCTCGGTTGGAACTGTTCCGCCTGGCAGTCCTTTTTTGTGTTTCCATCTCATTTCCTTC
CATCTGAAAGTGGCATTACAGCTGACTTGCTCATTAGACTGTTACGGAGTCTGAATCTGCCAACGTGGTGTGG
AGGCTCCACCTTGAAAAGGGCCACAGTCAGGGCAACTTTCCCATAACAGGAAAACCTGAAAATTACATCAACAGT
CTACGTCACAGCCAAATTATATTTCTTTTATACCAACAAAACCTATGGAGAACTAAAAGTACATCACACAAAACG
TTTATAGTGTTTTGCATGTGACCTATTTTCACTATTTATATACTAGATTAGTGCTTTCTAGCAAACGGTTCTGTT
AATTAGCGAGTCACTGTTGATTCTGCTGTGGTGGTAAGTTGATACCGTGTAACATAATCCCGTGGATGCCTCCTCG
TTATTTTGTCCAAACGAAGCAGCCGTGGTAGTAGCTGTCTATGATTCTTGCTCAGCAAAGTAAATAAATGTTA
AATATGG

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FIGURE 1146

RYACGGDCIRLSRLLLLRFAWERPWWPRSWRPESLLRPHPRAVTVTHAAQPGGKIVRGCGFSMSSSVKTPALEELV
PGSEEKPKGRSPLSWGSLSFGHRSEKIVFAKSDGGTDENVLTVTITETTVIESDLGVWSSRALLYLTLWFFFSFCT
LFLNKYILSLLGGEPSMLGAVQMLSTTVIGCVKTLVPCCLYQHKARLSYPPNFLMTMLFVGLMRFATVVLGLVSL
KNVAVSFAETVKSSAPIFTVIMSRMILGEYTGLLVNLSLIPVMGGALALCTATEISFNVLGFSALSTNIMDCLQN
VFSKKLLSGDKYRFSAPELQFYTSAAAVAMLVPARVFFTDVPVIGRSGKSFSYNQDVLLLLLTDGVLFHLQSVTA
YALMGKISPVTFSVASTVKHALSIWLSVIVFGNKITSLSAVGTALVTVGVLVLYNKARQHQQEALQSLAAATGRAP
DDTVEPLL PQDPRQHP

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FIGURE 1147

CCCACGCGTCCGCTTTAGTGCCTCGCCGTCGGCTCTACCTGCGTGCTTTAGCTCCTTCTCGCCTGATCCTTCTG
TCTCTCCCAACCCCGGACACCCGGCTTCGACTGGTTATATCTTCGGTGTTCTTTTCTCTCTTCTTCTTTCGCGG
TTCAGCATGCAGGAAAAAGACGCCTCCTCACAAGGTTTCCTGCCACACTTCCAACATTCGCCACGCAGGCGATC
CATGTGGGCCAGGATCCAGAGCAATGGACCTCCAGGGCTGTAGTGCCCCCATCTCACTGTCCACCACGTTCAAG
CAAGGGGCGCCTGGCCAGCACTCGGGTTTTGAATATAGCCGTTCTGGAAATCCCACTAGGAATTGCCTTGAAAAA
GCAGTGGCAGCACTGGATGGGGCTAAGTACTGTTTGGCCTTTGCTTCAGGTTTAGCAGCCACTGTAACATTACC
CATCTTTTAAAAGCAGGAGACCAAATTATTTGTATGGATGATGTGTATGGAGGTACAAACAGGTACTTCAGGCAA
GTGGCATCTGAATTTGGATTAAAGATTTCTTTTGTGATTGTTCCAAAATCAAATTACTAGAGGCAGCAATTACA
CCAGAAACCAAGCTTGTTTGGATCGAAACCCCAAAACCCACCCAGAAGGTGATTGACATTGAAGGCTGTGCA
CATATTGTCCATAAGCATGGAGACATTATTTGGTCGTGGATAACACTTTTATGTCACCATATTTCCAGCGCCCT
TTGGCTCTGGGAGCTGATATTTCTATGTATTCTGCAACAAAATACATGAATGGCCACAGTGATGTTGTAATGGGC
CTGGTGTCTGTTAATTGTGAAAGCCTTCATAATAGACTTCGTTTCTTGCAAACTCTCTTGGAGCAGTTCCATCT
CCTATTGATTGTTACCTCTGCAATCGAGGTCTGAAGACTCTACATGTCCGAATGGAAAAGCATTTCAAAAACGGA
ATGGCAGTTGCCCAGTTCCTGGAATCTAATCCTTGGGTAGAAAAGGTTATTTATCCTGGGCTGCCCTCTCATCCA
CAGCATGAGTTGGTGAAGCGTCAGTGTACAGGTTGTACAGGGATGGTCACCTTTTATATTAAGGGCACTCTTCAG
CATGCTGAGATTTTCCTCAAGAACCTAAAGCTATTTACTCTGGCCGAGAGCTTGGGAGGATTCGAAAGCCTTGCT
GAGCTTCCGGCAATCATGACTCATGCATCAGTTCTTAAGAATGACAGAGATGTCCTTGGAATTAGTGACACACTG
ATTCGACTTTCTGTGGGCTTAGAGGATGAGGAAGACCTACTGGAAGATCTAGATCAAGCTTTGAAGGCAGCACAC
CCTCCAAGTGGAAGTCACAGCTAGTATTCCAGAGCTGCTATTAGAAGCTGCTTCCTGTGAAGATCAAATCTTCCT
GAGTAATTAAATGGACCAACAATGAGCCTTTGCAAAAATTTCAAGCGGAAATTTAAGGCACCTCATTATCTTTC
ATAACTGTAATTTTCTTAGGGATCATCTCTGTTAAAAAGTTTTCTGTATGTCATGTTATAATTACAGGTCAATTC
TGTTAATATCTTTTTGTTAATTTTGCTCTATGTTTGCCTCTGAAGGAGGTGAGATTTGTGCTACTTTGGGAGATT
ATGTTCTTTTTTTCATGTCTAAGATTTATTTTGATCATGTTTATAATATAATGGTAATTCATTTTTGATGTTTTGT
GAAGAATTTAAATTTAAACGAATGTTCTTAAATCAAGTGTGATTTTTTTGCATATCATTGAAAAGAACATTAAAA
GCAATGGTTTACACTTAAAAAAAAAAAAAAAAA

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FIGURE 1148

MQEKDASSQGFLPHFQHFATQAIHVGQDPEQWTSRAVVPPISLSTTFKQGAPGQHSGFEYSRSGNPTRNCLEKAV
AALDGAKYCLAFASGLAATVTITHLLKAGDQIICMDDVYGGTNRYFRQVASEFGLKISFVDCSKIKLLEAAITPE
TKLVWIETPTNPTQKVIDIEGCAHIVHKHGDIIILVVDNTFMSPYFQRPLALGADISMYSATKYMNGHSDVVMGLV
SVNCESLHNRLRFLQNSLGAVPSPIDCYLCNRGLKTLHVRMEKHFKNGMAVAQFLESNPWVEKVIYPGLPSHPQH
ELVKRQCTGCTGMVTFYIKGTLQHAEIFLKNLKLFTLAESLGGFESLAELPAIMTHASVLKNDRDVLGISDTLIR
LSVGLEDEEDLLEDLDQALKAHPPSGSHS

1278/2682
FIGURE 1149

CGGCTGCTGCTGCCACTGCTGTGCTGGGGGCCGGTCGCCAGGCAAAAAGCCCTCCACGTTTGAGGGGAGTCATG

AGCCGTTTCTGAAATGTGTTAAGAAGTTGGCTGGTTATGGTGTCCATCATAGCCATGGGGAACACGCTGCAGAGC
TTCCGAGACCACACTTTTCTCTATGAAAAGCTCTACACTGGCAAGCCAAACCTTGTAATGGCCTCCAAGCTCGG
ACCTTTGGGATCTGGACGCTGCTCTCATCAGTGATTGCGTGCCTCTGTGCCATTGACATTACACAAGACGCTC
TATCACATCACACTCTGGACCTTCCTCCTTGGCCTGGGGCATTTCCTCTCTGAGTTGTTTGTCTATGGAAGTGA
GCTCCCACGATTGGCGTCCTGGCACCCCTGATGGTGGCAAGTTTCTCCATCCTGGGTATGCTGGTCGGGCTCCGG
TATCTAGAAGTAGAACCAGTATCCAGACAGAAGAAGAGAAACTTGAGGCCAGCATTATCACCTCCAGGACTTTCTC
GTTTTCCACCTTGGCCATCTTCTTCCTTCGTCGTCTCTCCTCTTAATTTCTTTTCTATTCCATCATCTGCCCTT
TTATTCACTTTTAGCCTCTTTTTTTAATTTTTTAAATTTTAAAGATATGCATACTGAAAAGTATATAACATGTACG
TACAATTTAAAGAATAATTTTAAAGTGAATACTACGTAACCTCCATCCAAGTCAAGAAATTGCCAGCTTCTCGGAA
GCCCCTGTGTCTCCTTCCCCTACCTGCAACCTCTTCCAGGCTCCCTTTTCCAGCCTTCCCCTTTTTCCCTTTTA
TTTTCATGCCCTTGATTGACTTGTGTGGTGGGAACATGTGAACATGAAACTTAAACCTGCTGCCACCCAGAGC
AGCTGTGACCAAGGGCTGCCTCAAGGGGTTGTCCACGCAGGTTGGGCTCCTCTCTGCTGCTGGACCCAAGACTCT
GAACCTTCCAAGGGACAGGCAGTTCTTCTAAGAAGGGCTCCCCTGTGTGTGAGCAAGACCACAGCTCTCCTTCTA
TCTACAGATGCATGAGGGTTGGAAGAGTCTGGGCTGTTTTTAGACCTTCTGGTCAGCTGTATTGTGTAACT
TTTGTAAATAAATAGAAAAACCCTCTGCTCTGATCAGTTCTTGTACTTTGACCTCTGCTAAGACAAGAGCATGGCT
GCTTCTCTGAGCCCTAGGAGAATCACAGCTTTATGCCTGATTGAATACACCATAGTGAGTAGGACAGCTCATGA
CACAGGTCAGCCTGGCTGCCTCCGGCTCCTTACTGTCAATTTGCTCATTCTCTTGTATTCTTGAAGTCAAATCTT
CTTTTTTCTCACCTTCAAGAGTCTGCGTTCACTAAACACTAAGTGCCCTTTCTATTTCCTCTAAAGAAGA
AACAGATTCTTGAGAGAGCAGAGACAAAAAATAGAACTAGGCAGCATAGATGAAACAACATGCATGACATGGGAA
GAAGACAATAAACCCCGAGGAGAATGCACTGGAATGGACAGTTGCTCTTAAACCCTACCCAGAGGGCCTCCCC
AGCTGGACCCTCATACAGTGTGTGTATCCAAAAGGCCATTGCTATTTAGCAATATTTGTTGAGTACTTCTC
CATGCCGGACACTTGGGAAAGAGAAATGAACGACACAGGCAATGCCCTGCCCTGTGGGCCTTATATTATAGTCA
AGGTAACAGAATCAACAAGCCAACACAAAAATAAAGAACTTCAAATAGGGATAAGAACTCTAACAAACACAAGGT
ATTTTGGTCAAGAAGGAATGTGGGGTGGGCAGTGGGGAACGTAACCTTAAATTAGATCATCAGAAAGTCCCTCCCTG
AGGAGATGGATTTTTTTTTTGTTTTTTTAGAGACGGGTTTCACTCTGTCAACCAGGCTGGGAATTGCAGTGGCAC
AATCCCTCACTGCTGCCTCAACTTCCTGGGCTCAAGTGACCCTCCTGCATCAGCTTCCCAAGTAGCTGGGACTGC
AAGTGTGTACCACCACATCCAGCTAACATTTTGGGGGTGGGAAGAGATGGGGTCTTACTATGTTGTCCAGGCTA
AGAGGTGGGATTTGAGCTGAGACTTGAATGCCAGGAGTTAAATGTCTTAAGATATGGAGCAGGCCGTTAGAAAG
GAGGGAGCAGCAACTGGAAGGTAGAATAGTCTTATTCAAGGAATAAGAACTATGTAATCACAGCATGGTGAAGAG
TTAGGAAGTGAAAAA

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FIGURE 1150

MSRFLNVLRSWLVMVSIIAMGNTLQSFRDHTFLYEKLYTGKPNLVNGLQARTFGIWTLLSSVIRCLCAIDIHNKT
LYHITLWTFLLALGHFLSELFVYGTAAPTIGVLAPLMVASFSILGMLVGLRYLEVEPVSRQKKRN

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FIGURE 1151

GCACAGGTGCGGCTCCGGCTTACGGCGGGCGACGCGGCGGAGGCGGCGGGAGGCCAGAGGCGCTCACCCCTCCTAGG
AGTCCGACGGCGGCGACAGGGGCGGTGGGGAATTCACAAAGCTCGTCGAGCTTACCCGGGCACCGAGGCCCCGAGT
AGGGGATTTGGATGCGCGGGTCCCAGGTGGGGTCGGGGCCAGAGGGGGTCGCTAGTGCGGGTGTTCCACGGCTGA

ATGCTTCGTTGGCCCCAGGCGGTGGGCTGCCGGCAGGGCAGGGCGCTGTAGTTGACGGGAGCTGCGGGGACCC
AGACCCGGACGCCCCGTACCGCCCCCTCCCCAGTCCAGCAGCGCTCCGCGGGGATGCCCGTGGTCTCGAC
TTCGTCAGCCCCCGGCGGCGCAGGGATCCGCGCCCGGCGCCTAAACTGCCCTGGTGTCTCTTCGTTCTGG
CGGGGCTGGCGGGGGGAGGTGCAGCATTAGGGGCGCTGAGGTGACACCCGAGAACTTCCCAGGGAGAGGGTGC
CGGGGGGTGGATTTCCACAGTCCTTCCCGCGGCCCGCGGGGGGGCGGTGTTGGGAGGGCACTTGGGGTTAT
AGGCTCGCCGGTGGGGGTGGGGGACTCCTCCCTTTACTTCCCTCCACCCCTTGCACACCCACCCCCAGGC
CGTGTCCTTGTCTCCCTCTCTCCGGTTAGAGATAGGTGGGTGGCTTTGAGTGGGCGGAGGACTTCAGG
TAGGGGCTCCCCATTCTAGGTCATGCCTCTTGCTCTCTTCCCTTGGCCTGTGTTGAGTAAGGTGTGTTCTT
GGTGGACGAAAGTCTGTACGATGGTTGGTGGCATTGGTCCTTAATCCTTTGGGTCTGTTTTAAGGTAAAGTGC
TAGAGTTTGGGAAGCAAAAATTTCTATTTATTGGATTTCTTTTGGCTTTTCTCTCAAGAAGGAAGTGGAAAAAG
AGTCTTTTCTTTTCCCTCTTCCCTCCATTTGCATTCTTTGTGAGGTTTGTCTGCCCTGTGCTTTTGTCCCGGAT
TAGTCTTGTGAAGGATGGAGATTCCCAGGCGTGGAGTCTATAGCTTTTGGCTTCCATTAAAGTAAAATCGCTAAC
CTTTTTTAAGAGAAAGTTAATTTTTGCCTGCAGTCATTCCAGAAAAATAGTGTACACGGACTAGCTGAATTAAT
CCACTTAAAAATTGTAACCTTAGTTACATATGGTAGATATGTTAACTCCTATCTGATTTTTTGGATGAACTGTTG
TTTTGTTTTTAATAGGAGATGAAGTAATGGATTTTTTCCCTCCCTTAAAAATGGCATAGCTGAGAAAGCCCCGG
TACTACTAATTGAGATGATCTGCTTAAGAGTCTTCATATTCTGAACTCGAAAGGCCTTTTATGTTATATTATTGC
TCGCTTTACGCAACTCCAAATTGCTTTTCTATTTAAATGAATGTTCTTCTAGTAACTGGTGTGTTAGATTTAAAGA
AATCACTCAAGCTTCACCTTGGTAAACTGAACTCAGTTTAAAGATTAAGAACTGATTTT

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FIGURE 1152

AQVRLRLTAATRRRRREARGAHPPRSPTAATGAVGNSQSSSSLPGHRGPSRGFGCAGPGWGRGQRGSLVRVFHG

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FIGURE 1153

GCGAGATCCCTACCGCAGTAGCCGCCTCTGCCGCCGCGGAGCTTCCCGAACCTCTCAGCCGCCCGGAGCCGCTCC
CGGAGCCCCGGCCGTAGAGGCTGCAATCGCAGCCGGGAGCCCGCAGCCCGCGCCCCGAGCCCGCCGCCCTTCG
AGGGCGCCCCAGGCCGCGCCATGGTGAAGGTGACGTTCAACTCCGCTCTGGCCCAGAAGGAGGCCAAGAAGGACG
AGCCCAAGAGCGGCGAGGAGGCGCTCATCATCCCCCGACGCCGTGCGGGTGGACTGCAAGGACCCAGATGATG
TGGTACCAGTTGGCCAAAGAAGAGCCTGGTGTGGTGCATGTGCTTTGGACTAGCATTATGCTTGCCAGGTGTTA
TTCTAGGAGGAGCATACTTGTACAAATATTTTGCACTTCAACCAGATGACGTGTACTACTGTGGAATAAAGTACA
TCAAAGATGATGTCATCTTAAATGAGCCCTCTGCAGATGCCCGAGCTGCTCTCTACCAGACAATTGAAGAAAATA
TTAAATCTTTGAAGAAGAAGATTGAATTTATCAGTGTGCCTGTCCCAGAGTTTGCAGATAGTGATCCTGCCA
ACATTGTTTCATGACTTTAACAAGAACTTACAGCCTATTTAGATCTTAACCTGGATAAGTGCTATGTGATCCCTC
TGAACACTTCCATTGTTATGCCACCCAGAAACCTACTGGAGTTACTTATTAACATCAAGGCTGGAACCTATTTGC
CTCAGTCTATCTGATTTCATGAGCACATGGTTATTACTGATCGCATTGAAAACATTGATCACCTGGGTTTTCTTTA
TTTATCGACTGTGTCATGACAAGGAACTTACAACTGCAACGCAGAGAACTATTAAAGGTATTTCAGAAACGTG
AAGCCAGCAATTGTTTCGCAATTCGGCATTTTGAAAACAAATTTGCCGTGGAACTTTAATTTGTTCTTGAACAG
TCAAGAAAAACATTATTGAGGAAAATTAATATCACAGCATAACCCACCTTTACATTTTGTGCAGTGATTATTT
TTTAAAGTCTTCTTTTCATGTAAGTAGCAAACAGGGCTTTACTATCTTTTCATCTCATTAAATCAATTAAACCAT
TACCTTAAAATTTTTTCTTTTCGAAGTGTGGTGTCTTTTATATTTGAATTAGTAAGTGTATGAAGTCATAGATAA
TAGTACATGTCACCTTAGGTAGTAGGAAGAATTACAATTTCTTTAAATCATTATCTGGATTTTTATGTTTTATT
AGCATTTCAGAAAGACGGATTATCTAGAGAATAATCATATATATGCATACGTAAAAATGGACCACAGTGACTTA
TTTGTAGTTGTTAGTTGCCCTGCTACCTAGTTTGTAGTGCAATTTGAGCACACATTTTAATTTTCTCTAATTAA
AATGTGCAGTATTTTCAGTGTCAAATATATTTAACTATTTAGAGAATGATTTCCACCTTTATGTTTTAATATCCT
AGGCATCTGCTGTAATAATATTTTAGAAAATGTTTGGAAATTAAGAAATAACTTGTGTTACTAATTTGTATAACC
CATATCTGTGCAATGGAATATAAATATCACAAAGTTGTTTAACTAGACTGCGTGTGTTTTTCCCGTATAATAAA
ACCAAAGAATAGTTTGGTTCTTCAAATCTTAAGAGAAATCCACATAAAGAAGAACTATTTTTTAAAAATTCAT
TCTATATATACAATGAGTAAAATCACAGATTTTTTCTTTAAATAAAAATAAGTCATTTTAATAACTAAACCAGAT
TCTTTGTGGATACTATTAAAGTAACATTTAAGCCTCAACCTTG

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FIGURE 1154

MVKVTFNSALAQKEAKKDEPKSGEEALIIPPDAVAVDCKDPDDVVPVGQRRRAWCWCFCGLAFMLAGVILGGAYL
YKYFALQPDDVYYCGIKYIKDDVILNEPSADAPAALYQTIEENIKIFEEEEVEFISVPVPEFADSDPANIVHDFN
KKLTAYLDLNLDKCYVIPLNTSIVMPPRNLLELLINIKAGTYLPQSYLIHEHMTDRIENIDHLGFFIYRLCHD
KETYKLQRRETIKGIQKREASNCFAIRHFENKFAVETLICS

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FIGURE 1155A

GCGCCCCGCCCTTTCTCGGCCCCCGGAGGTGACGGGGTGAAGCGGGGAACCGAGGTGGGGAGTCCGCCAGAGC
TCCCAGACTGCGAGCACGCGAGCCGCCGAGCCGTACCCGCGCCGCGTCACGGCTCCCGGGCCCCGCCCTCCTCT
GACCCCTCCCCTCTCTCCGTTTGCCCTCTCCCCCTCCTCCGCCGACCGAGCAGTGACTTAAGCAACGGAGCGCG
GTGAAGCTCATTTTTCTCCTTCCTCGCAGCCGCGCCAGGGAGCTCGCGGCGCGCGGCCCTGTCTCCGGCCCCGA
GATGAATCCTGCGGCAGAAGCCGAGTTCAACATCCTCCTGGCCACCGACTCCTACAAGGTTACTCACTATAAACA
ATATCCACCCAACACAAGCAAAGTTTATTCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACTCCAAATTAAG
GAAGGTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTTAATAAGTACTTAAAAAGGTAAAGTAGT
AACCAAAGAGAAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTCCAAGATGATGTCTTTAATGAAAAGGG
ATGGAACACTACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAAATAAAAGCTGTTTCTGAGGGCTTTGTCTAT
TCCCAGAGGAAATGTTCTCTTACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGAC
TATTCTTGTTTCAGTCTTGGTATCCAATCACAGTGGCCACAAATTCTAGAGAGCAGAAGAAAAATATTGGCCAAATA
TTTGTTAGAACTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACATGATTTTGGCTACAGAGGAGTCTCTTC
CCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGC
TCTAATTAATAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAACACAGTACCAT
AACAGCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTAACACAGTTTTCATCAGTGCCTGTATC
TGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGGGGTGAAGATCTAAGACATTTAATAGT
ATCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAAACCTCTTGACACTGTGTTAAAGGTTTT
GGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTACAAGTTGCTGCCACCTTATCTTAGAGT
TATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAAATGTGGAGTAT
TGAAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGCTACAGAAGTTGACAAGAGATCTCTTGAATTGTTCTTCAA
GTGTAGCTATGTTGTAACATAATGGCCTTGGGATTAACGTCTTCAAGGACCCAGTTGCTGATCCCAACAAAAGGTC
CAAAAAGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGTTACACTGGAGGAAGGAAAAGGAGACCT
TGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAGGTGACAAAAAGCTATTCAATTTGATGA
AATAAGAAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT**TAGG**CTTTATGACTGGGTGTGTGTTG
TGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGGTTTGTGTTTTATGATACATTACAGCCAAATTAT
TTGTTGGTTTATGGACATACTGCCCTTTTCAATTTTTTCTTTTCCAGTGTTTAGGTGATCTCAAATTAGGAAATG
CATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTATAGGGCCCTTTGCCAATAGGTAGTCATTCAATCTG
GTATTGATCTTTTACAAATAACAGAACTGAGAACTTTTATATATACTGATGATCACATAAAACAGATTTGCA
TAAATTACCATGATTGCTTTATGTTTATATTAACTTGATTTTTGTACAAACAAGATTGTGTAAGATATATTT
GAAGTTTCAGTGATTTAACAGTCTTTCCAACCTTTCATGATTTTTATGAGCACAGACTTTCAAGAAAATACTTGA
AAATAAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAAACATGGCCTTAACAAAGTTGTTTGTGTTATTGT
ACAATTTGAAAATTATGTCGGGACATACCCTATAGAATTACTAACCTTACTGCCCCTTGTAGAATATGTATTAAT
CATTCTACATTAAAGAAAATAATGGTTCTTACTGGAATGTCTAGGCACTGTACAGTTATTATATATCTTGGTTGT
TGTATTGTACCAGTGAAATGCCAAATTTGAAAGGCCTGTACTGCAATTTTATATGTCAGAGATTGCCTGTGGCTC
TAATATGCACCTCAAGATTTTAAGGAGATAATGTTTTTAGAGAGAATTTCTGCTTCCACTATAGAATATATACAT
AAATGTAAATACTTACAAAAGTGGAAGTAGTGATTTTAAAGTAATTACACTTCTGAATTTATTTTTTCATATTC
TATAGTTGGTATGACTTAAATGAATTACTGGAGTGGGTAGTGAGTGACTTAAATGTTTCAATTCGTGTATATTT
TTTATTAAGTTTTTAAAAAATTAAATTGGATATTAAATTGTATGGACATCATTTATTAATTTTAACTGAATGCC
CTCAATAAGTAATACTGAAGCACATTCTTAAATGAAGATAAATTATCTCCAATGAAAAGCATGACATGTGTTTCA
ATAGAAGAATCTTAAGTTGGCTAAATTCAAAGTGCTTGACATCAAATGTTCTAGAGTGATTAGCTACTAGATTC
TGAATCATACATCACATCTGACTAGAGACCAGTTTCTTTTGAATGATTCTTTTATGTATGTAGATCTGTTCTTCT
GAGGCAGCGGTTGGCCAACTATAGCCCAAAGGCCAAATTTGGACTTCTTTTTATAAATGCAGATTGTCTATGGCT
GCTTTCCCACTACTCCAGCCTAAGGTAAACAGCTGCAATAGAAGCCAAATGAGAATCGCAAAGCCCAAATGTTT
ATTAACCTGCCCTTTACACAAAATCACACAAAAGTTTCTGATCTCTGTTCTAAGAAAAGGAGTGTGCCTTGCA
TTTTAAAGGAAATGTTGGTTTCTAGGGAAGGGAGGAGGCTAAATAATTGATACGGAATTTTCTCTTTTGTCTTC
TTTTTCTCACTTAAGAATCCGATACTGGAAGACTGATTTAGAAAAGTTTTTAACATGACATTAAATGTGAAATT
TTAAAAATTGAAAAGCCATAAATCATCTGTTTTAAATAGTTACATGAGAAAATGATCACTAGAATAACCTAATTA
GAAGTGTTATCTTCATTAATGTTTTTGTAAAGTGGTATTAGAAAGAATATGTTTTTCAGATGGTTCTTTAAACA

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FIGURE 1155B

TGTAGTGAGAACAAATAAGCATTATTCACTTTTAGTAAGTCTTCTGTAATCCATGATATAAAATAATTTTAAAATG
ATTTTTTAATGTATTTGAGTAAAGATGAGTAGTATTAAGAAAAACACACATTTCTTCACAAAATGTGCTAAGGGG
CGTGTAAGAATCAAAAGAACTATTACCAATAATAGTTTTGATAATCACCCATAATTTTGTGTTTAAACATTGA
AATTATAGTACAGACAGTATTCTCTGTGTTCTGTGAATTTCAGCAGCTTCAGAATAGAGTTTAAATTTAGAAATTT
GCAGTGAAAAAAGCTATCTCTTTGTTTACAACCATAAATCAGGAGATGGAGATTAATTCTATTGGCTCTTAGTCA
CTTGGAAC TGATTAATTCTGACTTTCTGTCACTAAGCACTTGGTATTTGGCCATCTCCATTCTGAGCACCAAACG
GTTAACACGAATGTCCACTAGAACTCTGCTGTGTGTCACCCTTAAATCAGTCTAAATCTTCCAGACAAAAGCAAA
TGGCATTATGGATTTAAGTCATTAGATTTTCAACTGACATTAATTAATCCCTCTTGATTGATTATATCATCAAG
TATTTATATCTTAAATAGGAGGTAGGATTTCTGTGTTAAGACTCTTATTTGTACCCTATAATTAAGTAAATGT
TTTTTATGAGTATCCCTTGTTTTCCCTTCTTAAATTGTTATCAAACAATTTTATAATGAAATCTATCTTGAAA
ATTAGAAAGAAAAATGGCAAGGTATTTATTGTTCTGTTTGCCATAATTTAGAACTCACACTTAAGTATTTTGTAG
TTTTACATTCCTTTTTAACCATTTCAGTGGAGAATGTCAGCTTTTCTCCAAGTTGTATGTTAAGTCTATTCTAA
TATGTACTCAACATCAAGTTATAAACATGTAATAAACATGGAAATAAAGTTTAGCTCTATTAGTGAAGTGTTAAA

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FIGURE 1156

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVIFYGLQYILNKYLKGKV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLPIEIKAVPEGFVIPRGNVLFVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKILAKYLLETSGNLDGLEYLEKLDHDFGYRGVSSQETAGIGASAHLVNFKGTDTVAGLA
LIKYYGKTKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
*QTQAPLIIRPD SGNPLDTVLKVL EILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIVEGMKQKMWSI
AFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRLSLHRTPAGNFVTLEEGKGD
GODLLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1157

CGCGCGCCCCCTGTCTCCGGCCCCGAGATGAATCCTGCGGCAGAAGCCGAGTTCAACATCCTCCTGGCCACCGAC
TCCTACAAGGTTACTCACTATAAACAATATCCACCCAACACAAGCAAAGTTTATTCCTACTTTGAATGCCGTGAA
AAGAAGACAGAAAACTCCAAATTAAGGAAGGTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTT
AATAAGTACTTAAAAAGGTAAAGTAGTAACCAAAGAGAAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTT
CAAGATGATGTCTTTAATGAAAAGGGATGGAACCTACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAATA
AAAGCTGTTCTGAGGGCTTTGTCAATCCAGAGGAAATGTTCTCTTCACGGTGGAAAACACAGATCCAGAGTGT
TACTGGCTTACAAATTGGATTGAGACTATTCTTGTTTCAGTCCTGGTATCCAATCACAGTGGCCACAAATTCTAGA
GAGCAGAAGAAAAATATTGGCCAAATATTTGTTAGAAACTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACAT
GATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAA
GGAACAGATACAGTAGCAGGACTTGCTCTAATTAAAAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCT
GTTCCAGCAGCAGAACACAGTACCATAACAGCTTGGGGGAAAGACCATGAAAAAGATGCTTTTGAACATATTGTA
ACACAGTTTTTCATCAGTGCCTGTATCTGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAAATATGG
GGTGAAGATCTAAGACATTTAATAGTATCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAAC
CCTCTTGACACTGTGTTAAAGTTTTGGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAAGTCAAGGGTTAC
AAGTTGCTGCCACCTTATCTTAGAGTTATTCAAGGGGATGGAGTAGATTAATACCTTACAAGAGATTGTAGAA
GGCATGAAACAAAAAATGTGGAGTATTGAAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGCTACAGAAGTTGACA
AGAGATCTCTTGAATTGTTCCCTTCAAGTGTAGCTATGTTGTAACCTAATGGCCTTGGGATTAAACGTCTTCAAGGAC
CCAGTTGCTGATCCCAACAAAAGGTCCAAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGT
ACACTGGAGGAAGGAAAAGGAGACCTTGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAG
GTGACAAAAAGCTATTCAATTTGATGAAATAAGAAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT
TAGGCTTTATGACTGGGTGTGTGTTGTGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGGTTTGTGT
TTTATGATACATTACAGCCAAATTATTTGTTGGTTTATGGACATACTGCCCTTTTCAATTTTTTTCTTTTCCAGTG
TTTAGGTGATCTCAAATTAGGAAATGCATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTTTAGGGCCCT
TTGCCAATAGGTAGTCATTCAATCTGGTATTGATCTTTTACAAATAACAGAACTGAGAACTTTTATATATAAC
TGATGATCACATAAAACAGATTTGCATAAAATTACCATGATTGCTTTATGTTTATATTTAACTTGTATTTTGT
CAAACAAGATTGTGTAAGATATATTTGAAGTTTTCAGTGATTTAACAGTCTTTCCAACCTTTTCATGATTTTTATGA
GCACAGACTTTCAAGAAAATACTTGAAAAATAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAAACATGGC
CTTAACAAAGTTGTTTGTGTTATTGTACAATTTGAAAAATTATGTCGGGACATACCCTATAGAATTACTAACCTTA
CTGCCCCCTTGTAGAATATGTATTAATCATTTCTACATTAAAGAAAATAATGGTTTCTTACTGGAATGTCTAGGCACT
GTACAGTTATTATATATCTTGGTTGTTGTATTGTACCAGTGAAATGCCAAATTTGAAAGGCCTGTACTGCAATTT
TATATGTCAGAGATTGCCTGTGGCTCTAATATGCACCTCAAGATTTTAAGGAGATAATGTTTTTATAGAGAGAATTT
CTGCTTCCACTATAGAATATATACATAAATGTAAATACTTACAAAAGTGG

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FIGURE 1158

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVIFYGLQYILNKYLK GKVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLP I E I KAVPEGFVIPRGNVLF TVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKILAKYLLETSGNLDGLE YKLHDFGYRGVSSQETAGIGASAHLVNFKGTD TVAGLA
LIKYYGTKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPD SGNPLD TVLKVLEILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRLSLHRT PAGNFVTLEEGKGD L
EEYGQDLLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAH

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FIGURE 1159

TGCAGCGGTGGTCGGCTGTTGGGTGTGGAGTTTCCCAGCGCCCCCTCGGGTCCGACCCTTTGAGCGTTCTGCTCCG
GCGCCAGCCTACCTCGCTCCTCGGCGCCATGACCACAACCACCACCTTCAAGGGAGTCGACCCCAACAGCAGGAA
TAGCTCCCGAGTTTTGCGGCCTCCAGGTGGTGGATCCAATTTTTCATTAGGTTTTGATGAACCAACAGAACAACC
TGTGAGGAAGAACAATAATGGCCTCTAATATCTTTGGGACACCTGAAGAAAATCAAGCTTCTTGGGCCAAGTCAGC
AGGTGCCAAGTCTAGTGGTGGCAGGGAAGACTTGGAGTCATCTGGACTGCAGAGAAGGAACCTCTGAAGCAAG
CTCCGGAGACTTCTTAGATCTGAAGGGAGAAGGTGATATTCATGAAAATGTGGACACAGACTTGCCAGGCAGCCT
GGGGCAGAGTGAAGAGAAGCCCGTGCCTGCTGCGCCTGTGCCAGCCCGGTGGCCCCGGCCCCAGTGCCATCCAG
AAGAAATCCCCCTGGCGGCAAGTCCAGCCTCGTCTTGGGTTAGCTCTGACTGTCTTGAACGCTGTCGTTCTGTCT
GTTTCCTCCATGCTTGAGAACTGCACAACCTTGAGCCTGACTGTACATCTTCTTGGATTTGTTTCATTAAAAAGAA
GCACTTTATGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1160

MTTTTTFKGVDPNSRNSSRVLRPPGGGSNFSLGFDPTQPVVRKNKMASNIFGTPEENQASWAKSAGAKSSGGRE
DLESSGLQRRNSSEASSGDFDLKGEGDIHENVDTDLPGLGQSEKPVPAAPVPSVAPAPVPSRRNPPGGKSS
LVLG

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FIGURE 1161

GGGGGAAACGGAAGTGAGCGGCGGGGTCGACTGACGGTAACGGGGCAGAGAGGCTGTTTCGCAGAGCTGCGGAAG
ATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTACTGAACTTTCAGCAAGTGGACCTTTT
GAAAGTCATGATCTTCTTCGGAAAGGTTTTCTTGTGTGAAAAATGAACTTTTGCCTAGTCATCCCCCTTGAATTA
TCAGAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTCCACACTGAGAAACATTACAGGGTCTATTTGCT
CCGCTAAAATTACAGATGGAATTCAAGGCAGTGCAGCAGGTTACAGCGTCTTCCATTTCTTTCAAGCTCAAATCTT
TCACTGGATGTTTTGAGGGGTAATGATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAAGCGAA
GTCATGGGAGAGCCACACTTGATGGTGGAAATATAAACTTGGTTTACTGTAATAGTGTGCTGTTTCATGGAAACCGA
GGGCTGCATCTTGTTTATAGTCATCTTTGTACTGTAATTTGATGTACACAACATTAAAAAGTACTGACACCTGAGA
ATTTCTGCTCAAGTAGTATCAGTGATCATTTTAAATTTGGAGGGGTCTTTGGTTTACAGCCATGTGACAATTAAA
AGCACTAAAGGGAGATCATGTTAAAGCTCTTAATTTATATTAATAACAGTAGCCTTTGTCTTTAAAAAAGTTGTTG
CTCATGAATATTATAAAATGATCTACAGGTTTCAATTCAACCTGTTTCTAGGTTTTTTTGTAAATTTAGTTTTGA
TTAAGCATTATAAGCATTGAGTCTATAAACTTTATAGTAGCATCTTTCAGAATAAACATTTTAAATTGATTCA
GTGGCAACTCTCAAATTGATTACAATATGAGATATATCAGTGTCTGCCATTAACTCATAAGAATAATATTTAC
TGTGTCAGTGCTATTTTAGGATTATAGTTATTGTTTGATTATTTACAGGTTGAAAAGTAGAAGTTCCAAGGTTTTG
ATTTTGGTCTGGTCTTTAAGTGAAAAATTAAAGCAACCAGTAGATGTAGGTTAACTTTTACTTCATAGACTTAA
TATGTGATTAATATATTGCCAAGCAACACTGTAAAGAAAAGTAAACTCATTTTTCTTGTTCCTTAATTTATAT
ATTACAAGATACTGTAAGGTATTCTTTATGAAGTTGATATATAAAAAATTACATTTTTAGAACATTAGTGAATGG
ATCATCTTTTACAATTAAAAGTATATTTTGATTATCAGTTTCTTAGCAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1162

MNARGLGSELKDSIPVTELSASGPFESHDLRLKGFSCVKNELLPSHPLELSEKNFQLNQDKMNFSTLRNIQGLFA
PLKLQMEFKAVQQVQRLPFLSSSNLSLDVLRGNDETIGFEDILNDPSQSEVMGEPHLMVEYKLGLL

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FIGURE 1163

CCAGGGCCTGACTAAACCTGGAGACTCGGGTGGCCGAGGGGCTTCATACCAGCTGAAGAGCGACAAGCCGCTGGC
AGCCGCGGATCTCACCGCCGCTCAGGGTTTTTAGAACTTCAGCCATAAAAAATGGGCAGAATTTTCCTTGATCATA
TCGGTGGTACCCGTCTGTTTTCTTGTGCAAACTGTGATACGATCCTGACCAACCGCTCAGAACTCATCTCCACTC
GTTTCACAGGCGCCACTGGCAGAGCATTCTTTTTTAACAAGGTAGTTAACCTGCAGTACAGCGAAGTTCAAGATC
GGGTCATGCTCACTGGCCGCCACATGGTTCGAGATGTGAGCTGCAAAACTGCAATAGCAAACTGGGATGGATCT
ATGAGTTTGCCACTGAAGACAGCCAGCGATATAAGGAAGGCCGCGTGATCCTGGAACGTGCTCTAGTTCGAGAGA
GTGAGGGCTTTGAGGAGCATGTACCATCTGATAACTCTTGAAGATACAGAGAGAAATCCATCTTTCCAGGTCT
CCTTCACTGAAAACAAAATCTACTTACATACACTGTCACCTTAGCATCAGAGTCGGATTAATGAACTGCGGAAC
AAGAGGTTGTGAGAATCTAAGATGGAACCTTTCTTTCTTTCTTTCTTTTTTTTAAATTTTGTATTTTCCATCCA
ACAGCAGTGTGTAGAGAGAAATATTATGCAGATGCCGTTAATTTTTTACCCTATGTTTACATCTTGAGGCAGCAGA
GTCTGTCTGCAGCTATGTGGTGAGCTATGTAAGGAAAAAATCTGGGCTGTTAGAGTGAAAAAGTGTGTTTTATG
TCAATTGTGAAAGGAAAATGTTAGGAGTATGGTTTTTAAACTTGGGCTTCATTTTAAACTTTTTTTTTTAAACCC
AGTTATTTCACTTGATTTGCTAGCTTCAGAGAAGAGATCCGAATCTGTGCCAGCGCTAAAGGCTCAGTGTTAGC
ATGGCTTGCTGGCCGGTGTGCCATATTCTTGTGGAGATGAACCGTAGCACCAGAGCCCATTCCTTCCTTGTC
GTCTTGGCCCAAAGATGTCACCATTCCTAGTTATTTGTCAACCATATAATTGGTGTGATTGGAACTTTTTCTGA
GATGGGACAGAACTGCTGGGTTGTCTTTTTCCATGTAACCTAAGCATAGTAATATAAATAAGTAATAGTTGGAT
GCTTTTGGTCCTGTGTTGCTTTTTAAAAACACCTTATAAAAGAGGAGAGTATTGATAAGCAATTTTCATAGTAGT
AAAGTTTTTTTTTCATCTCTTAACTAAATTGACCATGCATATAATATTCTTTGTTTAAATGAAAGCATACTGTTG
AAACCCGCAGTGTGCAATTTAGAAAACAGTTGAACAGAATGTCAATGTGCATTTCATGCAAAAAACATTTAATCT
GCATCTGTTTTAGAAAAGGGGGAATGAAGCAACTTGTCTAAAAATACTGCTTTACAAAGCATTTACGCCCTTCC
CCCTCAGTTTTGCATTGATTTTTTGACAAGTCTGTAGAGCCTAATAGTTTCCATCAAAGGCCTAGATCTCTTATT
TAGCATTTTTTTTACGCTCTTCTCTCAGAAGTTCAGCTGTTGAAACGAAAACGTACTTTGTACCCTCACATACAA
AGGGATCAAATTTGACCTGGTGTATTTTTAGCCCCAAATTTATGACATTACACAATATTAAAATGTAAATGTTTC
TTTACCCAACTACTTCTAGATATTCTAGTATTGTCTTCTGGTGGAAATTAATGACGGTAAAATTGGCTAATTAT
TTGAATGAATGAATGGATGGATGTTTTGCATGCTCAATTTCTAGGTCCTTTGTCTAGAAAGGAAATTTGCCTCAG
TTGAATTAGTGAAATATTTCTGTCTGTTGATATTAAGAGTGACTTCTGAGTACAGTTAAGTTCCTCCTATTGCCA
CTGGGCTGTTGGTTAGAAGCATAGGTAACGATTAAAGTAGGTATGATACTGCATTTGAAATAAGTGGACACAAAC
TATCCTTTCTCCACCATGGACTCAATCTGAGAACAACAGCATTCAATTCATTTCATCTACTGGCTTTTGAT
TATATGCAGATTCCTAGTAGCATGCCTTACCTACAGCACTATGTGCATTTGCTGTCAATAAAGTATATTTTGT
CTTGCAAA

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FIGURE 1164

MGRIFLDHIGGTRLFSCANCDTILTNRSELISTRFTGATGRAFLFNKVVNLQYSEVQDRVMLTGRHMVRDVCKN
CNSKLGWIYEFATEDSQRYKEGRVILERALVRESEGFEHVPDMS

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FIGURE 1165

GCGACTCGTCCCGCCTTCTGGGGCACTAGTTTGACTTTGTGATTGGCTACTAGTATCAAGGAATCCCGGCGTGGA
CAGCGCGAGGAGAAAGATGCGCGCGATGGCGGTGCGGGGTGCTGGTGGGAGCCGCGTGTCCAGCGGGAGGGACCT
GAATTGCGTCCCCGAAATAGCTGACACACTAGGGGCTGTGGCCAAGCAGGGGTTTGATTTCCTCTGCATGCCTGT
CTTCCATCCGCGTTTCAAGAGGGAGTTCATTAGGAACCTGCTAAGAATCGGCCCCGTCCCCAGACACGATCAGA
CCTACTGCTGTCAGGAAGGGACTGGAATACGCTAATTGTGGGAAAGCTTTCTCCATGGATTTCGTCCAGACTCAAA
AGTGGAGAAGATTTCGACAGGAACCTCCGAGGCGGCCATGTTACAGGAGCTGAATTTTGGTGCATATTTGGGTCTTCC
AGCTTTCTGCTGCCCCCTTAATCAGGAAGATAACACCAACCTGGCCAGAGTTTTGACCAACCACATCCACACTGG
CCATCACTCTTCCATGTTCTGGATGCGGGTACCCTTGGTGGCACCAGAGGACCTGAGAGATGATATAATTGAGAA
TGCACCAACTACACACACAGAGGAGTACAGTGGGGAGGAGAAAAACGTGGATGTGGTGGCACAACCTCCGGACTTT
GTGTGACTATAGTAAGAGGATTGCAGTGGCTCTTGAAATTGGGGCTGACCTCCCATCTAATCATGTATTGATCG
CTGGCTTGGGGAGCCCATCAAAGCAGCCATTCTCCCCACTAGCATTTTCCTGACCAATAAGAAGGGATTTCTGT
TCTTTCTAAGATGCACCAGAGGCTCATCTTCCGGCTCCTCAAGTTGGAGGTGCAGTTCATCATCACAGGCACCAA
CCACCACTCAGAGAAGGAGTTCTGCTCCTACCTCCAATACCTGGAATACTTAAGCCAGAACCCTCCTCCACCTAA
TGCCTATGAACCTCTTTGCCAAGGGCTATGAAGACTATCTGCAGTCCCCGCTTCAGCCACTGATGGACAATCTGGA
ATCTCAGACATATGAAGTGTGAAAAGGACCCCATCAAATACTCTCAGTACCAGCAGGCCATCTATAAATGTCT
GCTAGACCGAGTACCAGAAGAGGAGAAGGATACCAATGTCCAGGTACTGATGGTGTGGGAGCAGGACGGGGACC
CCTGGTGAACGCTTCCCTGCGGGCAGCCAAGCAGGCCGACCGCGGATAAAGCTGTATGCTGTGGAGAAAAACCC
AAATGCCGTGGTGACGCTAGAGAACTGGCAGTTTGAAGAATGGGGAAGCCAAGTGACCGTAGTCTCATCAGACAT
GAGGGAATGGGTGGCTCCAGAGAAAGCAGACATCATTGTCAGTGAGCTTCTGGGCTCATTTGCTGACAATGAATT
GTCGCCTGAGTGCCTGGATGGAGCCAGCACTTCCTAAAAGATGATGGTGTGAGCATCCCCGGGGAGTACACTTC
CTTTCTGGCTCCCATCTCTTCCCTCCAAGCTGTACAATGAGGTCCGAGCCTGTAGGGAGAAGGACCGTGACCCTGA
GGCCCAGTTTGAGATGCCTTATGTGGTACGGCTGCACAACCTCCACCAGCTCTCTGCACCCCAGCCCTGTTTCAC
CTTCAGCCATCCCAACAGAGATCCTATGATTGACAACAACCGCTATTGCACCTTGGAATTTCTGTGGAGGTGAA
CACAGTACTACATGGCTTTGCCGGCTACTTTGAGACTGTGCTTTATCAGGACATCACTCTGAGTATCCGTCCAGA
GACTCACTCTCCTGGGATGTTCTCATGGTTTCCCATCCTCTTCCCTATTAAGCAGCCCATAACGGTACGTGAAGG
CCAAACCATCTGTGTGCGTTTCTGGCGATGCAGCAATTCGAAGAAGGTGTGGTATGAGTGGGCTGTGACAGCACC
AGTCTGTTCTGCTATTTCATAACCCACAGGCCGCTCATATACCATTTGGCCTCTAGCCCTGCGTGCCAAGTGTCCA
GAGCCTTGGAAGCAGCTTCAGGTTCTGCTCCTGTAGTACAGAAGGTGCAGTACATCTATGGGCTGTGATTCCCC
CTTGCCCATCAGAGAGGAGCATTTCAATCTGCTTTCCCTGCCTTACATCAAGGTGGGCAAGGGATTATAATTAATT
GCAGGGCTCAAGCCACCAATCTATGAAGACCTCAGGCCAGGGGTGAGGAATTAGTGCTGGATTGAAGCTACGC
ACTCAGCCTCAAGAACTCCCTGGAATATCCCTGAGAACATGGGGTTTGAACGGATTTTCAGCCTTTTTCTGTCT
TGTTTTGATGGTTTTGTGTAAGAGGAAATACCAATAAAGTTATAGCCCTTTACTGCCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 1166

MAAMAVGGAGGSRVSSGRDLNCVPEIADTLGAVAKQGDFLCMPVFHPRFKREFIQEPAKNRPGPQTRSDLLLSG
RDWNTLIVGKLSPWIRPDSKVEKIRRNSEAAMLQELNFGAYLGLPAFLLPLNQEDNTNLARVLTNHIHTGHHSSM
FWMRVPLVAPEDLRDDIIENAPTTHTEEYSGEEKTWMWWHNFRTLCDYSKRIAAVALEIGADLP SNHVIDRWLGEP
IKAAILPTSIFLTNNKGFVLSKMHQRLIFRLLKLEVQFIITGTNHHSEKEFCSYLQYLEYLSQNRPPPNAYELF
AKGYEDYLQSPLQPLMDNLESQTYEVFEKDIKYSQYQQAIYKCLLDRVPEEEKDTNVQVLMVLGAGRGPLVNAS
LRAAKQADRRIKLYAVEKNPNNAVVTLENWQFEEWGSQVTVVSSDMREWVAPEKADII VSELLGSFADNELSPECL
DGAQHFLKDDGVSIPGEYTSFLAPISSSKLYNEVRACREKDRDPEAQFEMPYVVR LHNFHQLSAPQPCFTFSHPN
RDP MIDNNRYCTLEFPVEVNTVLHGFAGYFETVLYQDITLSIRPETHSPGMFSWFPILFPIKQPI TVREGQTICV
RFWRCSNSKKVWYEWAVTAPVCSAIHNPTGRSYTIGL

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FIGURE 1167

GGCACGAGTGGGAGTACAGGACTCGCCTCCTCAGGGTTCCCTGTGCTGCCACTTTTCAGCCATGGCCACAAGTGA
ACAGAGTATCTGCCAAGCCCGGGCTTCCGTGATGGTCTACGATGACACCAGTAAGAAATGGGTACCAATCAAACC
TGGCCAGCAGGGATTTCAGCCGGATCAACATCTACCACAACACTGCCAGCAACACCTTCAGAGTCGTTGGAGTCAA
GTTGCAGGATCAGCAGGTTGTGATCAATTATTCAATCGTGAAAGGGCTGAAGTACAATCAGGCCACGCCAACCTT
CCACCAGTGGCGAGATGCCCGCCAGGTCTACGGCTTAAACTTTGCAAGTAAAGAAGAGGCAACCACGTTCTCCAA
TGCAATGCTGTTTGGCCTGAACATCATGAATTCCCAAGAAGGAGGCCCTCCAGCCAGCGTCAGGTGCAGAATGG
CCCCCTCTCCTGATGAGATGGACATCCAGAGAAGACAAGTGATGGAGCAGCACCAGCAGCAGCGTCAGGAATCTCT
AGAAAGAAGAACCTCGGCCACAGGGCCCATCCTCCACCAGGACATCCTTCATCTGCAGCCAGCGCCCCCGTCTC
ATGTAGTGGGCCTCCACCGCCCCCCCCACCCCCAGTCCCACCTCCACCCACTGGGGCTACCCACCTCCCCCACC
CCCACTGCCAGCCGGAGGAGCCCAGGGGTCCAGCCACGACGAGAGCTCCATGTGAGGACTGGCCGCTGCCATAGC
TGGGGCCAAGCTGAGAAGAGTCCAACGGCCAGAAGACGCATCTGGAGGCTCCAGTCCCAGTGGGACCTCAAAGTC
CGATGCCAACC GGGAAGCAGCGGGGGTGGCGGAGGAGGCCTCATGGAGGAAATGAACAACTGCTGGCCAAGAG
GAGAAAAGCAGCCTCCCAGTCAGACAAGCCAGCCGAGAAGAAGGAAGATGAAAGCCAATGGAAGATCCTAGTAC
CTCCCCCTCTCCGGGGACCCGAGCAGCCAGCCAGCCACCTAACTCCTCAGAGGCTGGCCGGAAGCCCTGGGAGCG
GAGCAACTCGGTGGAGAAGCCTGTGTCCTCGATTCTGTCCAGAACCCCGTCTGTGGCAAAGAGCCCCGAAGCTAA
GAGCCCCCTTCAGTCGCAGCCTCACTCTAGGATGAAGCCTGTGGGAGCGTGAATGACATGGCCCTGGATGCCTT
CGACTTGGACCGGATGAAGCAGGAGATCCTAGAGGAGGTGGTGAGAGAGCTCCACAAGGTGAAGGAGGAGATCAT
CGACGCCATCAGGCAGGAGCTGAGTGGGATCAGCACCAGTTAAGGGGCGGCCTCGCTGCGCTGATTTCGTGAGC
CCATCCGGCGACAGAGGACAGCCAGAAGCCAGCCAGCCCCAGACTCCAGTGCACCAGAGCACGCACAGGAGCCT
GGGCGCGCTGCTGTGAAACGTCCTGACCTGTGATCACACATGACAGTGAGGAAACCAAGTGCAACTCCTGGGTTT
TTTTAGATTCTGCCTGACACGGAACACCAGGTCTGCTCGTCTTTTTTGTGTTTTATATTGTCTATTTAAGGTAC
ATTTCTTTGGGTTTCTAGAGACGCCCCTAAGTCACCTGCTTCATTAGACGGTTTCCAGGTTTTCTCCAGGTGAC
GCTGTTAGCGCCTCAGCTGGCGGTGACAGCCGGCCAGCGTGGCGCCACCACACCCGAGAGCTGTCCAGGCAC
AGCTCCGTCCCCAGCGCTCATGGTGTGAAACTGTCTGTTCATGCACCACGGTGTCTGTGTCCACACAGTAATAAA
CGGTTTACTGTCCGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1168

MATSEQSIQARASVMVYDDTSKKWVPIKPGQQGFSRINIYHNTASNTFRVVGVKLQDQQVINYISIVKGLKYNQ
ATPTFHQWRDARQVYGLNFASKEEATTFSNAMLFALNIMNSQEGGPSSQRQVQNGPSPDEMDIQRRQVMEQHQQQ
RQESLERRTSATGPILPPGHPSSAASAPVSCSGPPPPPPPPVPPPTGATPPPPPLPAGGAQGSSHDESSMSGL
AAAIAGAKLRRVQRPEDASGGSSPSGTSKSDANRASSGGGGGGLMEEMNKLLAKRRKAASQSDKPAEKKEDESQM
CTSPSPGTRAASQPPNSSEAGRKPWERSNSVEKPVSSILSRTPSVAKSPEAKSPLQSQPHSRMKPAGSVNDM
AFDLDRMKQEILEEVVRELHKVKEEIIDAIRQELSGISTT

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FIGURE 1169

GGGCTCTCTCCTTGTCTAGTCGGCGCCGCGTGC GGGGCTGGTGGCTCTGTGGCAGCGGCGGCGGCAGGACTCCGGCA
CTATGAGCGGCTTCAGCACCGAGGAGCGCGCCGCGCCCTTCTCCCTGGAGTACCGAGTCTTCCTCAAAAATGAGA
AAGGACAATATATATCTCCATTTTCATGATATTCCAATTTATGCAGATAAGGATGTGTTTCACATGGTAGTTGAAG
TACCACGCTGGTCTAATGCAAAAATGGAGATTGCTACAAAGGACCCTTTAAACCCTATTAAACAAGATGTGAAAA
AAGGAAAACCTTCGCTATGTTGCGAATTTGTTCCCGTATAAAGGATATATCTGGAACTATGGTGCCATCCCTCAGA
CTTGGAAGCAAGGTATGTGCAAGAGGTGAAATAATTGGCGTGAAAGTTCTAGGCATATTGGCTATGATTGACGAAG
GGGAAACCGACTGGAAAGTCATTGCCATTAATGTGGATGATCCTGATGCAGCCAATTATAATGATATCAATGATG
TCAAACGGCTGAAACCTGGCTACTTAGAAGCTACTGTGGACTGGTTTAGAAGGTATAAGGTTCTGATGGAAAAC
CAGAAAATGAGTTTGCGTTTAATGCAGAAATTTAAAGATAAGGACTTTGCCATTGATATTATTAAGCACTCATG
ACCATTGGAAAGCATTAGTGACTAAGAAAACGAATGGAAAAGGAATCAGTTGCATGAATACAACCTTTGTCTGAGA
GCCCCTTCAAGTGTGATCCTGATGCTGCCAGAGCCATTGTGGATGCTTTACCACCACCCTGTGAATCTGCCTGCA
CAGTACCAACAGACGTGGATAAGTGGTTCATCACCAGAAAACTTAATGAGATTTCTCTGGAATACAAGCTGATA
TTGCTACATCGTGTTTCATCTGGATGTATTAGAAGTAAAAGTAGTAGCTTTTCAAAGCTTTAAATTTGTAGAACTC
ATCTAACTAAAGTAAATTTCTGCTGTGACTAATCCAATATACTCAGAATGTTATCCATCTAAAGCATTTTTCATAT
CTCAACTAAGATAACTTTTAGCACATGCTTAAATATCAAAGCAGTTGTCATTGGAAGTCACTTGTGAATAGATG
TGCAAGGGGAGCACATATTGGATGTATATGTTACCATATGTTAGGAAATAAAATTATTTTGCTGAAAAAAAAAA
AAAAAA

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FIGURE 1170

MSGFSTEERAAPFSLEYRVFLKNEKGQYISPFHDIPIYADKDV FHMVVEVPRWSNAKMEIATKDPLNPIKQDVKK
GKLRVANLFPYKGYIWNYGAIPTWEDPGHNDKHTGCCGDNDPIDVCEIGSKVCARGEIIGVKVLGILAMIDEG
ETDWKVIAINVDDPDAANYNDINDVKRLKPGYLEATVDWFRYKVPDGKPENEF AFNAEFKDKDFAIDIIKSTHD
HWKALVTKKTNGKGISCMNTTLESFPKCDPAARAIVDALPPCESACTVPTDVKWFHHQKN

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FIGURE 1171

GCGGCCGCCAAGCGATCCCTGCTCCGCGCGACACTGCGTGCCCGCGCACGCAGAGAGGCGGTGACGCACCTTTACG
GCGGCACGTAAAGTGCCTGACGCTCGTCAGTGGCTTCAGTTACASGTGGCGCCMGSAAGMRGGTTGCTGTGTTTG
TGCTTCCTTCTACAGCCAATATGAAAAGGCCCTAAGTTAAAGAAAGCAAGTAAACGCATGACCTGCCATAAGCGGT
ATAAAATCCAAAAAAGGTTTCGAGAACATCATCGAAAATTAAGAAAGGAGGCTAAAAAGCAGGGTCACAAGAAGC
CTAGGAAAGACCCAGGAGTTCCAAACAGTGCTCCCTTTAAGGAGGCTCTTCTTAGGGAAGCTGAGCTAAGGAAAC
AGAGGCTTGAAGAACTAAAACAGCAGCAGAACTTGACAGGCAGAAGGAACTAGAAAAGAAAAGAAAACCTTGAAA
CTAATCCTGATATTAAGCCATCAAATGTGGAACCTATGGAAGAGGAGTTTGGGCTTTGCAAACTGAGAACAAAG
CCAAGTCGGGCAAACAGAATTCAAAGAAGCTGTACTGCCAAGAACTTAAAAAGGTGATTGAAGCCTCCGATGTTG
TCCTAGAGGTGTTGGATGCCAGAGATCCTCTTGGTTGCAGATGTCTCAGGTAGAAGAGGCCATTGTCCAGAGTG
GACAGAAAAAGCTGGTACTTATATTAAATAAATCAGATCTGGTACCAAAAGGAGAATTTGGAGAGCTGGCTAAATT
ATTTGAAGAAAGAATTGCCAACAGTGGTGTTTCAGAGCCTCAACAAAACCAAAGGATAAAGGGAAGATAACCAAGC
GTGTGAAGGCAAAGAAGATGCTGCTCCATTCAGAAGTGAAGTCTGCTTTGGGAAAGAGGGCCTTTGGAACTTC
TTGGAGGTTTTTCAGGAACTTGCAGCAAAGCCATTGGGTTGGAGTAATTGGTTTCCCAAATGTGGGGAAGCA
GCATTATCAATAGCTTAAAAACAAGACAGATGTGTAATGTTGGTGTATCCATGGGGCTTACAAGGAGCATGCAAG
TTGTCCCCTTGGACAAACAGATCACAATCATAGATAGTCCGAGCTTCATCGTATCTCCACTTAATTCCTCCTCTG
CGCTTGCTCTGCGAAGTCCAGCAAGTATTGAAGTAGTAAACCGATGGAGGCTGCCAGTGCCATCCTTTCCCAGG
CTGATGCTCGACAGGTAGTACTGAAATATACTGTCCCAGGCTACAGGAATTCTCTGGAATTTTTTACTATGCTTG
CTCAGAGAAGAGGTATGCACCAAAAAGGTGGAATCCCAAATGTTGAAGGTGCTGCCAACTGCTGTGGTCTGAGT
GGACAGGTGCCTCATTAGCTTACTATTGCCATCCCCCTACATCTTGGACTCCTCCTCCATATTTTAATGAGAGTA
TTGTGGTAGACATGAAAAGCGGCTTCAATCTGGAAGAACTGGAAGAACAATGCACAGAGCATAAGAGCCATCA
AGGGCCCTCATTGCGCAATAGCATCCTTTTCCAGTCTTCCGGTCTGACAAATGGAATAATAGAAGAAAAGGACA
TACATGAAGAATTGCCAAAACGGAAAGAAAGGAAGCAGGAGGAGAGGGAGGATGACAAAGACAGTGACCAGGAAA
CTGTTGATGAAGAAGTTGATGAAAACAGCTCAGGCATGTTTGCTGCAGAAGAGACAGGGGAGGCACTTCTGAGGA
GACTACAGCAGGTGAACAGTCTACAAGGTCTTTTATCTTGATAAAATCATTGAAGAGGATGATGCTTATGACTT
CAGTACAGATTATGTGTAACAGAACATGGCTTTTTATGATTTTTTTTTTAAACATTTTAAGCAGACTGCTAAAC
TGTTCTCTGTATAAGTTATGGTATGCATGAGCTGTGTAAATTTTGTGAATATGTATTATATTAACCAGGCAAC
TTGGAATCCCTAAATTCTGTAAAAAGACAATTCATCTCATTGTGAGTGGAAGTAGTTATCTGGAATAAAAAAGA
AGATACCTATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1172

MKRPKLKKASKRMTCHKRYKIQKKVREHHRKLRKEAKKQGHKKPRKDPGVPNSAPFKEALLREAELRKQRLEELK
QQQKLDROKELEKKRKLETNPD IKPSNVEPMEKEFGLCKTENKAKSGKQNSKKLYCQELKKVIEASDVVLEVDA
RDPLGCRCPQVEEAIVQSGQKKLVLIILNKSDLVPKENLESWLNLYLKKELPTVVFRASTKPKDKGKITKRVKAKKN
AAPFRSEVCFGKEGLWKLLGGFQETCSKAIRVG VIGFPNVGKSSI INSLKQEQMCNVGVSMGLTRSMQVVPLDKQ
ITIIDSPSFIVSPLNSSSALALRSPASIEVVKPMEAASAILSQADARQVVLKYTVPGYRNSLEFFTMLAQRRGMH
QKGGIPNVEGAAKLLWSEWTGASLAYYCHPPTSWTPPPYFNESIVVDMKSGFNLEELEKNNAQSIRAIKGPHLAN
SILFQSSGLTNGIIEEKDIHEELPKRKERKQEEREDDKDSDQETVDEEVDENS SGMFAAEETGEALLRRLQQVNS
LQGLLSWIKSLKRMMMLMTSVQIMCNRTMAFYDFFF

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FIGURE 1173

AGCCGGATTGAAACAAGATGGCGGGTTCGTGGTGAGAAGCCGTCAAGGAGTAGAAATTGGTATGCTTAGAAGCAG
ATTCTAAAAGCAGTTTCTCTTCAGAACATCTTTTTTCATACCACTTGATAAGCATCTTGAAACACCATGGCTGTA
GCTGCAGTAAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTTCCAGTCCAAAATGGAGCTTTATAT
TGTGTTTGTCAATAATCTACGTATTCTCCTCTACCAGATGACTATAATTGCAACGTAGAGCTTGCTCTGACTTCT
GATGGCAGGACAATAGTATGCTACCACCCTTCTGTGGACATTCCATATGAACACACAAAACCTATCCCTCGGCCA
GATCCTGTGCATAATAATGAAGAAACACATGATCAAGTGCTGAAAACCAGATTGGAAGAAAAAGTTGAACACCTT
GAGGAAGGACCTATGATAGAACAACCTTAGCAAAATGTTCTTTACTACTAAGCACCGTTGGTATCCTCATGGACGG
TATCACAGATGTCGTAAGAATCTGAATCCTCCAAAAGACAGATTGATGCGGAGGTTCCTGGGGGAATCAAAGAGAA
ATGTGCCTCATTGCCATTTGAGAAAATGCAGTCTGGTGATTTCAGTAATATATAGTAAAGTAATAATGATAAAA
TATCTTTTCATATATTAGAATGTGTACTTTTATATAAAGTAATTCTGGATTGACATTCTCATTTAGAGAAACCT
ATTTCTTTTTTCTTTTTCTATTTTAGTGTTTCATTTATGTGCGGTCTCCAATTTAGGACTTTTCCATAGTGCCA
AAGCCATACATATTCAGTAGAACATCAATAAATTCATCAGAAATTCAAACACTTTATTATAAAACGGGCTTCGTG
TTAGATAATTTTGCTAAACAGTAGGCTACTGTAAGTGTTCTGAGCATATTTAAGCAGGCTAGCATTTTCAATTTA
CAATATTTTCACTGATAGTAGGTTTATTGGGATGTAACCCTATGATAAGTTGAGAAACATCTCTTTTTGTGTGT
CTACTGTGATTTAAGTATTTTTAATCATCAGCCAAGCATTGTTAGTAGTATAAATATGATTAATAAAAATGTGCA
TGGCTTTCCTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1174

MAVAAVKWVMSKRTILKHLFPVQNGALYCVCHKSTYSPLPDDYNCNVELALTS DGRTIVCYHPSVDIPYEHTKPI
PRPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLSKMFFTTKHRWYPHGRYHRCRKNLNPPKDR

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FIGURE 1175

ACAGGGGAAATACCGCGCGCCGGTAGTTGCTGTGGTTTCCGTTCTGAGCTCGCAGCTTAGGAGCTGAAGATCGC
GGACTTAGCGTTGCCGCGTCCGAGTCCGGCCATCAGTGGCTGCAGATCCGGAGCCAGGAGCTCAACCACCCTTCT
TCGGAACAGGGCCGGCCTGCTGCTGTGCCCTCGACGCTCGGTGCCTGTATCTACTCCGGGGCCTAGGTGGCTCC
GGGGGCGGCTTAGGAGAAGGCCGCCGGCGAGATGTTCAAAAAACACGTTCCAGAGCGGCTTCCTCTCCATCCTCTA
CAGCATCGGCAGCAAGCCTCTGCAAATCTGGGACAAAAAGGTACGGAATGGCCACATCAAAAGAATCACTGATAA
TGACATCCAGTCCCTGGTGCTAGAGATTGAAGGGACAAATGTAAGCACCACATATATCACATGCCCTGCAGACCC
CAAGAAGACGCTGGGAATTAACTTCCTTTTCCTTGTCATGATTATCAAAAACCTGAAGAAGTATTTTACCTTCGA
AGTGCAGGTACTAGATGACAAGAATGTGCGTCGTCGCTTTCGGGCAAGTAACTACCAGAGCACCACCGGGTCAA
ACCCTTCATCTGCACCATGCCATGCCGCTGGATGACGGCTGGAACAGATTTCAGTTCAACTTGCTAGACTTCAC
ACGGCGAGCATACGGCACCAATTACATCGAGACCCCTCAGAGTGCAGATCCATGCAAATTGTCGCATCCGACGGGT
TTACTTCTCAGACAGACTCTACTCAGAAGATGAGCTGCCGGCAGAGTTCAAAGTGTATCTCCAGTTTCAGAACAA
GGCAAAGCAATAAAGTGAATTGTGACTCGAGGGATAGACCCCTGGATGTGACTCTTCTTTTTAAAGGAACTAT
GTGGAGGACGATGCAAAAACATATTTATCTTAGTTTGCTCTGCTGTAGTTCTGTTATTTATACTTGGTGTGCTT
GTCATGGACACCGGTGAACATGCCGTAAGTCTGTGACTGCATTGTAAGTGCAGTGGGGGTAAGCAGTCCTGTGAG
TGGCGCATGAACGCTGGAGCTTATTCGCCCGCTGCCCCAGTGTGGGGGAGATACCTTTACCATGAACTTACAG
AATTAAAGATGGCCCATAAGGAATTCAGACCAATATTTCTTCCTGCGGTTTATTCTATGTTTATATATTATCT
AAATATATGTATATGCTGTGTCATACTCATAATCTGGAAATGAATAAAGTGATATATTCCTGGTTTGTAAAAAA
AAA

1306/2682
FIGURE 1176

MFKNTFQSGFLSILYSIGSKPLQIWDKKVRNGHIKRITDNDIQSLVLEIEGTNVSTTYITCPADPKKTLGIKLPF
LVMIKKNLKKYFTFEVQLDDKNVRRRFRASNYQSTTRVKPFICTMPMRLDDGWNQIQFNLLDFTRRAYGTNYIE
TLRVQIHANCRIRRVYFSDRLYSEDELPAEFKLYLPVQNKAKQ

1307/2682
FIGURE 1177

ACCCCATCCCCACTCCTATACCGGTCCTCCATTTTGGTGCCTGCAAAGCTCTGGGAAAGAATCCCGGGAAACGA
AAAATGGTGGGTTTGGGGGAAGGGAGGTAAGGGGAGAAAGCTGGAGGGAGGGGCTTTAATTGGAGGCCCGTAGA
GGACGCGCGGAACTTCTAAGGTGGGAAAAACGAAATTAAAAAATCCTTTGATATCAGGGCTCTGAATCCTGCTG
GTCAGAGCACCAAGCATTCACTCTCTCCTTGCCCTTTGTCTTACTTGTGTTCAAAGAAAAACAACCAGAAAAAA
AAAATCTCATCATGGCAAATATTCACCAGGAAAACGAAGAGATGGAGCAGCCTATGCAGAATGGAGAGGAAGACC
GCCCTTTGGGAGGAGGTGAAGGCCACCAGCCTGCAGGAAATCGACGGGGACAGGCTCGCCGACTTGCCCTAATT
TTCGATGGGCCATACCAATAGGCAGATCAATGATGGGATGGGTGGAGATGGAGATGATATGGAAATATTCATGG
AGGAGATGAGAGAAATCAGAAGAAAACCTAGGGAGCTGCAGTTGAGGAATTGTCTGCGTATCCTTATGGGGGAGC
TCTCTAATCACCATGACCATCATGATGAATTTTGCCTTATGCCTTGACTCCTGCCATTTATCATGAGATTAATAC
TGTGATTCCCGCTGTTTTCTTTTTCCTTGCAATTTTCCCTAATATGCCTTTACTGATCCGTTTGCTGTGAACCCTAT
GTTATTTCCATGTGTCAAGTGGGTCTTGTGTTGCCAGCTTCTATTTGAAGATTGCCTTTGCACICAGTGTAAGTT
TCTGTCAGCAGTAGTTTCACCCATTTGCATGGAAAAATTTAAAGCTAATAAAGCAATTTAAAAAGC

1308/2682
FIGURE 1178

MANIHQENEEMEOPMQNGEEDRPLGGGEGHQAGNRRGQARRLAPNFRWAIPNRQINDGMGGDGDDMEIFMEEMR
EIRRKLRELQLRNCLRILMGELSNHHDHDEFCLMP

1309/2682
FIGURE 1179

GACATGGAGCTGTTTCCTCGCGGGCCGCCGGGTGCTGGTCACCGGGGCAGGCAAAGGTATAGGGCGCGGCACGGTC
CAGGCGCTGCACGCGACGGGCGCGCGGGTGGTGGCTGTGAGCCGGACTCAGGCGGATCTTGACAGCCTTGTCGC
GAGTGCCCGGGGATAGAACCCGTGTGCGTGGACCTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGGCAGCGTG
GGCCCCGTGGACCTGCTGGTGAACAACGCCGCTGTGCCCCTGCTGCAGCCCTTCCTGGAGGTCACCAAGGAGGCC
TTTGACAGATCCTTTGAGGTGAACCTGCGTGCGGTTCATCCAGGTGTCGCAGATTGTGGCCAGGGGCTTAATAGCC
CGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGCTCCCAGCGGGCAGTAACCTAACCATAGCGTCTAC
TGCTCCACCAAGGGTGCCCTGGACATGCTGACCAAGGTGATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTG
AATGCAGTAAACCCACAGTGGTGATGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCCACAAGGCCAAGACT
ATGCTGAACCGAATCCCACTTGGCAAGTTTGCTGAGGTAGAGCACGTGGTGAACGCCATCCTCTTTCTGCTGAGT
GACCGAAGTGGCATGACCACGGGTTCCTACTTTGCCGGTGGAAGGGGGCTTCTGGGCCTGCTTGAGCTCCCTCCACA
CACCTCAAGCCCCATGCCGTGCTCATCCTACCCCCAATCCCTCCAATAAACCTGATTCTGCTGCCCAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

1310/2682
FIGURE 1180

MELFLAGRRVLVTGAGKGIGRGTVQALHATGARVAVSRTQADLDSLURECPGIEPVCVDLGDWEATERALGSVG
PVDLLVNNAAVALLQPFLEVTKEAFDRSFEVNLRAVIQVSQIVARGLIARGVPGAIVNVSSQCSQRAVTNHSVYC
STKGALDMLTKVMALELGPHKIRVNAVNPVMTSMGQATWSDPHKAKTMLNRIPLGKFAEVEHVVNAILFLLSD
RSGMTTGSTLPVEGGFWAC

1311/2682
FIGURE 1181

CGGCGACTGACCGTGGTTCGTGGGCGGACGGCGGGCTTGCAGCGTGGAGGAGCTGGGGTTCGCTGTGGGTTCGCGAAGC
AGAGCCCGGGACGTGCGCGCTTGGTGCACGATCCTGAAGGGGAGCTCCGAGGGGCCCCGGGTGCCAGGGCTGCTG
CGGCCATTCCCGGAGCCCCGGCGCGGGGGCCCGCGAGATACTGGTTTAGGCCGTCCCAGGGCTCCGGGCGCACCCGG
TGGCCGCTGCTGCAGCGGAGGGAGCGCGGGCGGCGGGGGCTCGGAGACAGCGTTTCTCCCGGAAGTCTTCCTCG
GGCAGCAGGTGGGAAGTGGGAGCCGGAGCGGCAGCTGGCAGCGTTCTCTCCGCAGGTCCGGCACCATGCGCCCTGC
AGCCCTGCGCGGGGCCCTGCTGGGCTGCCTCTGCCTGGCGTTGCTTTGCCTGGGCGGTGCGGACAAGCGCCTGCG
TGACAACCATGAGTGGAAAACTAATTATGGTTTACGACTGGCCTGAGACAGTATGCGAGAAAATTCAAAACGA
CTGTAGAGACCCCTCCGGATTACTGGACAATACATGGACTATGGCCCGATAAAAGTGAAGGATGTAATAGATCGTG
GCCCTTCAATTTAGAAGAGATTAAGGATCTTTTGCCAGAAATGAGGGCATACTGGCCTGACGTAATTCACTCGTT
TCCCAATCGCAGCCGCTTCTGGAAGCATGAGTGGGAAAAGCATGGGACCTGCGCCGCCAGGTGGATGCGCTCAA
CTCCCAGAAGAAGTACTTTGGCAGAAGCCTGGAACCTCTACAGGGAGCTGGACCTCAACAGTGTGCTTCTAAAATT
GGGGATAAAACCATCCATCAATTACTACCAAGTTGCAGATTTTAAAGATGCCCTTGCCAGAGTATATGGAGTGAT
ACCCAAAATCCAGTGCCTTCCACCAAGCCAGGATGAGGAAGTACAGACAATTGGTCAGATAGAACTGTGCCTCAC
TAAGCAAGACCAGCAGCTGCAAACTGCACCGAGCCGGGGGAGCAGCCGTCCCCAAGCAGGAAGTCTGGCTGGC
AAATGGGGCCGCCGAGAGCCGGGGTCTGAGAGTCTGTGAAGATGGCCAGTCTTCTATCCCCACCTAAAAAGAC
CAAGCATTGATGCCTCAAGTTTTGGAAATATTCTGTTTTAAAAAGCAAGAGAAATTCACAACTGCAG

1312/2682
FIGURE 1182

MRPAALRGALLGCLCLALLCLGGADKRLRDNHEWKKLIMVQHWPETVCEKIQNDCRDPPDYWTIHGLWPKSEGC
NRSWPFNLEEIKDLLPEMRAYWPDVIHSFPNRSRFEWKHEWEKHGTCAAQVDALNSQKKYFGRSLELYRELDLNSV
LLKLGIKPSINYQVADFKDALARVYGVIPKIQCLPPSQDEEVQTIGQIELCLTKQDQQLQNCTEPGEQFSPKQE
VWLANGAAESRGLRVCEGPFVFPKPKTKH

1313/2682
FIGURE 1183

GAATTCGAGCTTTTTATTCTAAGAGGAGAAAATCAGTAACGGGAGAAGCAGGAGGATGTCCAGAAGAAATTC
ATCCCTTGCTCTCGCCCCTACTCTTTCTGGTGTTAGATCGAGCTACCCCTCTAAAAGCAGTTTAGAGTGGTAAAAA
AAAAAAAAACACACCAAACGCTCGCAGCCACAAAAGGGATGAAATTTCTTCTGGACATCCTCCTGCTTCTCCCGT
TACTGATCGTCTGCTCCCTAGAGTCCTTCGTGAAGCTTTTTATTCTAAGAGGAGAAAATCAGTCACCGGCGAAA
TCGTGCTGATTACAGGAGCTGGGCATGGAATTGGGAGACTGACTGCCTATGAATTTGCTAAACTTAAAAGCAAGC
TGGTCTCTGGGATATAAATAAGCATGGACTGGAGGAAACAGCTGCCAAATGCAAGGGACTGGGTGCCAAGGTTT
ATACCTTTGTGGTAGACTGCAGCAACCGAGAAGATATTTACAGCTCTGCAAAGAAGGTGAAGGCAGAAATTGGAG
ATGTTAGTATTTTAGTAAATAATGCTGGTGTTAGTCTATACATCAGATTTGTTTGCTACACAAGATCCTCAGATTG
AAAAGACTTTTGAAGTTAATGTACTTGCACATTTCTGGACTACAAAGGCATTTCTTCTGCAATGACGAAGAATA
ACCATGGCCATATTGTCACTGTGGCTTCGGCAGCTGGACATGTCTCGGTCCCCTTCTTACTGGCTTACTGTTCAA
GCAAGTTTGCTGCTGTTGGATTTCAAAAACCTTTGACAGATGAAGTGGCTGCCTTACAAATAACTGGAGTCAAAA
CAACATGTCTGTGTCCTAATTTCTGTAACACTGGCTTCATCAAAAATCCAAGTACAAGTTTGGGACCCACTCTGG
AACCCGAGGAAGTGGTAAACAGGCTGATGCATGGGATTCTGACTGAGCAGAAGATGATTTTTATTCCATCTTCTA
TAGCTTTTTTAACAACATTGGAAAGGATCCTTCCTGAGCGTTTCTTGGCAGTTTTAAACGAAAAATCAGTGTTA
AGTTTGATGCAGTTATTGGATATAAAATGAAAGCGCAATAAGCACCTAGTTTTCTGAAAACCTGATTTACCAGGTT
TAGGTTGATGTCATCTAATAGTGCCAGAATTTAATGTTTGAAGTCTGTTTTTCTAATTATCCCCATTTCTTC
AATATCATTTTTGAGGCTTTGGCAGTCTTCATTTACTACCACTTGTTCTTTAGCCAAAAGCTGATTACATATGAT
ATAAACAGAGAAATACCTTTAGAGGTGACTTTAAGGAAAATGAAGAAAAAGAACCAAAATGACTTTATTTAAATA
ATTTCCAAGATTATTTGTGGCTCACCTGAAGGCTTTGCAAAATTTGTACCATAACCGTTTATTTAACATATATTT
TTATTTTTGATTGCACTTAAATTTGTATAATTTGTGTTTCTTTTTCTGTTCTACATAAAATCAGAACTTCAAG
CTCTCTAAATAAAATGAAGGACTATATCTAGTGGTATTTACCAATGAATATCATGAAGTCTCAATGGGTAGGTTT
CATCTACCCATTGCCACTCTGTTTCTGAGAGATACCTCACATTCCAATGCCAAACATTTCTGCACAGGGAAGC
TAGAGGTGGATACACGTGTTGCAAGTATAAAGCATCACTGGGGGATTTAAGGAGAATTGAGAGAATGTACCCAC
AAATGGCAGCAATAATAATGGATCACACTTAACG

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FIGURE 1184

MKFLLDILLLLPLLIVCSLESFVKLFIPKRRKSVTGEIVLITGAGHGIGRLTAYEFAKLKSKLVLWDINKHGLEE
TAAKCKGLGAKVHTFVVDCSNREDIYSSAKKVKAIEIGDVSILVNNAGVVYTSDFATQDPQIEKTFEVNVLAHFW
TTKAFLPAMTKNNHGHIVTVASAAGHVSVPFLLAYCSSKFAAVGFHKTLDLAALQITGVKTTCLCPNFVNTGF
IKNPSTSLGPTLEPEEVVNRLMHGILTEQKMIFIPSSIAFLTTLERILPERFLAVLKRKISVKFDAVIGYKMQ

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FIGURE 1186

MLESSGCKALKEGVLEKRS DGLQLWKKKCCILTEEGLLLIPPQ LQHQQQQQQQQQQQQQQPGQGP AEP SQPSG
PAVASLEPPVKLKLHFSNMKT VDCVERKGKMYFTV VMAEGKEIDFRCPQDQG WNAEITLQMVQYKNRQAILAV
KSTRQKQQHLVQQQPPSQPQPQ LQPQPQPQPQPQPQSQPQPQPQPQPKPQPQQLHPY PPHPHPHSHPHSHPH
PHPHPHPHQIPHHPHPQPHSQPHGHRLLRSTNSA

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FIGURE 1187

CCCGAGACCACGTGGCCTCCGAGCAGCTCAGGGCGCCCTTGAAAGTTCTTGGATCTGCGGGTTATGGCCGGTCCC
TTGCAGGGCGGTGGGGCCCGGGCCCTGGACCTACTCCGGGGCCTGCCGCGTGTGAGCCTGGCCAACCTAAAGCCG
AATCCCGGCTCCAAGAAACCGGAGAGAAGACCAAGAGGTCCGAGAAGAGGTAGAAAATGTGGCAGAGGCCATAAA
GGAGAAAGGCAAAGAGGAACCCGGCCCCGCTTGGGCTTTGAGGGAGGCCAGACTCCATTTTACATCCGAATCCCA
AAATACGGGTTTTAACGAAGGACATAGTTTCAGACGCCAGTATAAGCCTTTGAGTCTCAATAGACTGCAGTATCTT
ATTGATTGGGTTCGTGTTGATCCTAGTCAACCTATTGACTTAACCCAGCTTGTCAATGGGAGAGGTGTGACCATC
CAGCCACTTAAAGGGATTATGGTGTCCAGCTGGTTGAGGAGGGTGCTGACACCTTTACGGCAAAAGTTAATATT
GAAGTACAGTTGGCTTCAGAACTAGCTATTGCTGCCATTGAAAAAATGGTGGTGTGTTACTACAGCCTTCTAT
GATCCAAGAAGTCTGGACATTGTATGCAAACCTGTTCCATTCTTTCTTCGTGGACAACCCATTCCAAAAAGAATG
CTTCCACCAGAAGAACTGGTACCATATTACACTGATGCAAAGAACCGTGGGTACCTGGCGGATCCTGCCAAATTT
CCTGAAGCACGACTTGAACCTCGCCAGGAAGTATGGTTATATCTTACCTGATATCACTAAAGATGAACCTTTCAA
ATGCTCTGTACTAGGAAGGATCCAAGGCAGATTTTCTTTGGTCTTGCTCCAGGATGGGTGGTGAATATGGCCGAT
AAGAAAATCCTAAACCTACAGATGAAAATCTCCTTAAGTATTATACCTCATGAATTCCCGTCCAAGGAAGCAGA
GTTGTTAAAGAGTACTGGAATAGGGGCTGAAGGATCTATATTCCTTATTGCATTTTCCTTATGTATAATTTTCC
AGATGGTGATGTTACTTTTCAGTGTACTCATATGTCTCATTTTCATCTAAAATTAAATGGCAGGAAACAAGGACT
GCATAGAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1188

MAGPLQGGGARALDLLRGLPRVSLANLKPNGSKKPERRPRGRRRGRKCGRGHKGERQGRTRPRLGFEGGQTPFY
IRIPKYGFNEGHSFRRQYKPLSLNRLQYLIDLGRVDPSQPIDLTQLVNGRGVTIQPLKRDYGVQLVEEGADTFTA
KVNIEVQLASELAIAAIEKNGGVTTAFYDPRSLDIVCKPVPFFLRGQIPKRMLPPEELVPYYTDAKNRGYLAD
PAKFPEARLELARKYGYILPDITKDELFKMLCTRKDPRQIFFGLAPGWVVMADKKILKPTDENLLKYYTS

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FIGURE 1189

GGTATCGATAAGCTTGATATCGAATTCCGGCACGAGGCCGGGCGCGGGGCTGCTGCGGGGCGATCGGGCCGGGC
CGCTGCCGCGCCATGGACTCCCGTGTCAGCCTGAGTTCCAGCCTCACTGAGTGGCCACCCCAAAGTGCTGCCA
GCCGAGGAAGCCCCAGCACTGACC**ATG**TCTATTATGGACCACAGCCCCACCACGGGCGTGCTACAGTCATTGT
CATCCTCATTGCCATCGCGGCCCTGGGGGCCTTGATCCTGGGCTGCTGGTGCTACCTGCGGCTGCAGCGCATCAG
CCAGTCAGAGGACGAGGAGAGCATCGTGGGGGATGGGGAGACCAAGGAACCCTTCCTGCTGGTGCAGTATTCGGC
CAAGGGACCGTGCGTGAGAGAAAGGCCAAGCTGATGACTCCCAACGGCCCGGAAGTCCACGGCT**AG**AGCCAGGAT
GCAAGGCTCCTGGTCTGTTTGACGCCGCCAAGAGGCGCTGGGAGGGGCAAACCATAACGGATGCGCTGCTGTC
TGAGAGGAAGGGCTGACACTTGCTGGCATGGCCTCTGCGGGCTTCGTCATCGCATGCACTGATGCCCGGGGACCT
GGCTGTCTGGGCTTCCCTCGGCCTCCAGGTGAGGCTGCCATTGCAGGCACTGGGCAGGCCTGACCTTGCTGG
GGCTCATGGCCCTGTAGCGCTTTTGTACTTGAAATGTCTAGCTGAGCCTGTTTTTGATGGAGCTACTACTGTAAT
GCGTGAACTAACAAACCTGTGAACTGTAAATAGGCCCTGGAAGCACGTGCTTAAGCCCTTTTGCTGATTTTTAA
AAATATCATCTAGCGCACACGGGACTGGTATTCTGGCTGTACTAATGACAAGCTGAGTCAAGACCCTGGAGGGTC
ATAGGCTTGTAAGGCCACGCCACACTCGGCAGGGGTCTCTCATGTGTGTCCATCTGCGTGTATGTCAAGGAAG
TGAGATGCCAATTTGGGGTCTTGAGGCTGACCAGTTGGGGTGCTTGGGTGATCTCTGCTTCGTTAGTCATGGGTG
GAAGAAAAACACACCYCYMRMCCCCCTCCGTTCTTCTGCATAGACTCACTTGTTAAATAGCAGTTCTGTTGAG
AGTGAGATTACTGCAGGGAAGCTACCGGACCTGCCTGGGAGCCAGTGAAGGGCGAGTCAGGGCACGCGTCCTGGA
GGCTGCCAGCGTCCCTGTAGCAGAGCAGTTTCTTGCCGCTTGGGTCTTCAGCACGCCAAGCCCCCACCAACCT
CCACCCCCGAGTGAAAGGCTTCGCTGAAATTGCTTTGGTCTCATAGAGCCTGTGGTGGCTACTTTTGGTCTGAAA
CCCCTTGCCCCAGGAAAGAGAAAAGGTTGTATGTTTTGTGTTGGTGTTCCTATTTTCTGCACTGGAGGGGAGG
GGACTGTTGAGGTTCTGTCTTTTTCTTCTTCTTCTTCCCTCTTCACATCACTTGGCTTCCTTCTCTCTGA
TGACCGTCCGCCATGGGGTCTGACTTCACTTTCTCAGCGGGTCTCCAGTCCCCTGACCCAGCTCTAAAGGCA
CTTAGGACCCAGGGAACATTTCTCACGTGCACATTCCCCTAAGAGCCACCAGACTGCTTCCTGCCAGCCTGTGCT
TGCGGCAGGGAGCCGGGGCAGGGCAGAGGTGACTTGAAAGTTCAAGGACTGACTCTCCACAGGTGGTGAGCTGG
TGGCTCTCTGGTGAGCTAGTGTCTCCACAGMCWVTCTCCAAAGGCTCCCCTATGTACATTTGAGTGAGCTCACTT
TGATTTTTAATCCCAACACAAGCACATACTAATTTTATTTATGATTCAAATGTGACTCGTGCCTGCCATCCCTG
TAATAGATGGAAGGTGAGCCCCGGCTTAACCACAGAGCACTGGCCCTTCATGGCTGAGCTCAGAGCTCTGGCCTC
CTGCTCAGACTAAAGGCACCTCCTCTGGCCTCACCCAAGCCTCTTCTAAAAACCATGTTGAATGAATCCACGTTT
TGGAACCCCGAGGCGGGAGAAGTAGGGAGCTGTTTCGTTTAAAGCAGCATAACCTAAATTGGGGGTTTAAACATTA
AGTAGGAGCTTGGGGTGGAAGAGGGACAGCCGGCTGGGCCACCTGAGCAGAAGGTGGTAATGAAACACCTCAGCT
GGGCTCTTGGGAGACCTTAGGAAGCAGGAGAGGCAACACCTCTGGCTACTGATGGTGTGGCAAGTTGAGAAGAGG
TGGTGGTGGGGTAGGCGTGATGTCAGCAGAAGCCCTGCAGGCTGGGTGGGCAGGACACGTGGTGGGGGCCACTGA
AACCAGGCCTAGGAGGGAGAACAAGTTCCAAAGGTGCCGACTGGAAGAAGGGGGTAAAAGTTTGCTTTGGTGAGT
GAGAAAAGGCTGGGGCGTGATCCATCCCTCACGTTTCAGAACTTCAGGCTTTCTACCTCGACTCTCACCAC
AGCCAGCACATACCTAGGCTGTTTTCTTCTTCTCCACACCTGAGGGACGCAGCAACAGCTAGGATCTGCATTT
TCAGGTTCCGAGCCTGACCCCTGGAAGTACCAGCGCTCGATTGTGAGCCTTGGCCTGGGGTTTTGACCTTGCCA
GTGAAGTTTTCGGTTTTGAAGTGATTAAATGTCACTTCTCATGATTTCACTTCTGGAGGTTTTCTTATCCTACT
CCCTGGTGCCAGGGACGTACCTGGGAGTTTGAATCAGGCCCATTTGAGCGTGGCAGCCGTGTTGGGTGAAGGTCC
GGGGCTCGGTGAGGCACTGGGGGGGTTTTCGGGAGGAAAATGAAAATGCTTCTAGAATGAGTGAACCACATCATA
GCTCTCACTGTTTTTTCAATAGCTACTTTTTTTAGCAGACACCAGAGCCACACTCAAATGGCTAAGTAGGTTATG
ACCTCTCTGGATTATTTTTGAATGCCCAACTGTTGCAATTCAAGTTTTCTGAACTAATAAGAAATTAAGCATTCA
TCCTTCGTATCACTGCAGAAGCAACAGTGGGGGCACAGGGAGGGAACCTTTGACACTGAGCCACTAAAATATGGA
CTAATTTTTTTGGACAAAATCTTCAAACGGACTGTGCTACTGTATTTGTCTCAAAGCTACCAAGTTTGTGCAATAAG
TGGAAGGGATGTATCCTTCTTCAATAAATGCTGAATGACATTCAAGCTGATTTTCTAGACCACTGAGAAAATCT
TTATTTACAATAAATTTCAATAAAATTTGCATAAATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1190

MSIMDHSPPTGVVTVIVILIAIAALGALILGCWCYLRRLQRISQSEDEESIVGDGETKEPFLLVQYSAGPCVERK
AKLMTPNGPEVHG

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FIGURE 1191

GGAGCTCTGGAGGCGGGGCTTCGAGCGTGGCTCGTGGGTTTTCCGTGAAGTCGCGGTGCAGCGGTGGGCGGCATG
TCGTGGCCGGTGGGGAGATTTCGTGGGGACACGGGGGGAGAGGACACTGCTGCTCCCGGCCGGTTCAGCTTCAGC
CCGGAGCCCACGCTCGAGGACATCCGCCGCCTCCATGCTGAGTTTGCTGCGGAACGAGACTGGGAACAGTTCCAT
CAGCCTCGGAATCTCCTCCTGGCCTTGGTTGGGGAAAGTGGGGGAGCTGGCAGAACTCTTTCAGTGGAAAACCGAT
GGGGAACCTGGCCCCCAAGGCTGGTCCCCCAGGGAACGGGCAGCCCTTCAAGAGGAGCTTAGTGACGTCCTCATC
TACCTGGTGGCATTAGCAGCCCCTGCCGTGTGGATCTGCCGCTAGCAGTGCTCTCCAAAATGGACATCAACCGG
CGACGCTACCCAGCCCATCTGGCCCCGAGCTCTTCCCGCAAGTATACAGAATTGCCCCATGGGGCCATCTCTGAA
GACCAGGCTGTGGGGCCTGCGGACATTCCCTGTGACTCCACAGGCCAGACCTCAACCTAGAAAGATGGCCACAGG
ACTTGCAACTCAGGGTGGTGTCTGAAGAGCAGAGAGTGGCCTGGCCCTGGAGCCTTTTTCTAGTCTTTTCAGAAT
AGATCATGGGCCTGAGGCCTCCACTTCTTGAGGTCTGAGGCCCAGCAGCCTCTAGAAGGTAGCCTCCTGGTGT
GTTCTCCAGTAAAATGGTTTGGGCGATAACTTCTAGATTATTCCTGGATGGCCAGGGAGGCTCTCTGTCTCAG
CAGGTGATGACGGGGGTACCAGGGGTGCCTCTGAGACCCATTCTCGTGTTCCTGTTGTACCTTTTGCCTGCAG
GGCAGAGAGATCTGGTTTCTAGCAAATTCCCAGTAGGATGTCATGTAAGTTCCTTCCCCCTCTTAGAGATTGAAG
GCTGTAAGAGTCCAGATGGTGGAGCCAGGCTGTCTGGGTTCAAATGCCATCTTTGACACTTGCAAGCTAAATGAC
ATTACTCAAATTAATCGTTCTGCACTTCAGCTTCCTTGTCTATCAAATAAAAAGAATAGTACCTGCCCAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1192

MSVAGGEIRGDTGGEDTAAPGRFSFSPEPTLEDIRRLHAEFAAERDWEQFHQPRNLLLALVGEVGE LAELFQWKT
LGEFGPQGWSPRERAALQEELSDVLIYLVALAARCRVDLP L AVL SKMDINRRRYP A H L A R S S R K Y T E L P H G A I S
EDQAVGPADIPCDSTGQTST

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FIGURE 1193

GGCACGAGGCAGAGGGCGGTTCTGGAGTTACAGCCGCGTTTGC GGGACGTGTCTGCGCGGCAGTCTGGCCTGT
TGAGCTTGTCCAGACGAAGCCTCGCAGGGATGGGTTGGAGCCTGGGCCGGGCTTCGCTCAGGCAGCGTTTGAGGC
AGACCCAGCAGGGTCTCTCTGGGGCCTTCTGCTTTGAACTGCGGTGGCGGGCGGGCGCACGGTCTCTGTACG
CCCTAGACTAGGGGCCGCCATCTCCATGGCCACGGCCGTGAGCCGGCCCTGCGCCGGCAGGTGCGGGACATACT
GTGGCGCGTTTTTGGGCTGGAGGATAGTTGCAAGTATTGTTTGGTCAGTGCTATTTCTACCCATCTGCACCACAGT
ATTTATAATTTTCAGCAGGATTGATTGTTTTCATCCTATACAGTGGCTGTCTGATTCTTTTCAGTGACCTGTATAG
TTCCTATGTAATCTTTTACTTCTGCTGCTGTCTGCTGAGTAAATAATAATAAGTATTTTCAATGTGGAGTTCTA
TGCAGTTGTGCCTTCTATTCTTGTCTCCAGACTAGCTCTGATAGGGAAGATCATTTCATCCTCAGCAACTCATGCA
CTCATTATTATCATGCTGCAATGGGAATGGTGATGGCCTGGTGTGCTGTCAGTGATAACCCAGGGCCAGTACAGCTT
TCTTGTGGTTCCCTGCACTGGTACTAACAGCTTTGATAGCCCTGCTGCGCAAACCTGCTTAAATGAATATCATCT
TTTTTCTCTACTGACTGGAGCATTATGGGCTATAGCTATAGCCCTCTGTATTTTGTAAACAACATGAAGTATCT
TCCATTTCCCATCATACAGCAATACAAGTTCTTGCCTTTTAGGAGATCTCTGCTCTTATTAGTTAAACACAGTTG
TGTGGAATCACTGTTTCTGGTTAGAAATTTCTGCATTTTATATTATTTTCTTGGCTATATTCCCAAAGCTTGGAT
TAGCACTGCTATGAACCTTCACATAGATGAGCAGGTTTCATAGGCCACTTGACACAGTGAGTGGCCTCTTAAATCT
CTCGTTACTCTACCATGTCTGGCTGTGTGGTGTCTTCTCTGACGACTTGGTATGTCTCATGGATACTCTTCAA
AATCTATGCCACAGAGGCTCATGTGTTTCTGTTCAACCACCATTTCAGAAAGGGTCAGATGAGTGCCTTCCAAA
AGTGTAAATAGCAATCTCCCCCATCAAAAGTATTTAGCCTTGCAGGACCTGATGTTGCTTTTCTCAATATTC
TCCTTCACGAAGACAAGAAGTTTTAGCCTCAGCCAACCAGGTGGACATCCCCACAATTGGACAGCCATTTCAAG
GGAGTGTGTTGAATCTTTTAAATGGTATGACTCAGAACTGATTCTCTATCAAGAAGCTGCTGCTACGAATGGGAG
AGTGTCTTCATCTTACCCAGTGGAACCTAAGAAATTAAATTTCTCCAGAAGAACTGCTTTTTCAGACACCAAAATC
TAGCCAGATGCCCTCGGCCTTCAGTGCCACCATTAGTTAAACATCACTGTTTCTTCAAATATCTACACCTGA
TGTGTGAGCCCCATTTGGGACCCCATTTGGCTCTAGTGTAATGAATCGGATGGCTGGAATTTTGTATGTAAACAC
CTGCTATGGGTACCGCAAAGTCTCAGCTAATAAGAAGGGGGCCAAAGATTGTGGACATCAGCTTCTGATCAGCA
AATGACTGAATTTTCTAATCTTCTCCATCTACCTCTATTAGTGCTGAGGGTAAGACAATGAGACAACCCAGTGT
GATTTATTCATGGATTGAGAATAAACGTGAACAGATTAAAGAAATTTCTTGTCAAACGGGTGCTGATAATGTATTT
TTTCAGTAAGCACCCAGAGGCCTCCATTACAGGCTGTTTTTTCAGATGCCCAAATGCATATTTGGGCATTAGAAG
TCTGTCGCACTTAGTAGCAGCATCATTTACAGAGGATAGATTGGAGTTGTCCAGACGACACTACCAGCTATCCT
TAATACTTTGTTGACACTGCAAGAGGCAGTCGACAAGTACTTTAAGCTTCCTCATGCTTCCAGTAAACACCCCG
GATTTTCAGGAAGCCTTGTGGACACTTCATATAAAACATTAAAGATTGTCATTACAGAGCATCACTGAAAACCTGCCAT
CTATCGAATAACTACTACATTTGGTGAACATCTGAATGCTGTGCAAGCATCTGCAGAACATCAGAAAAGACTTCA
ACAGTTCTTGGAGTTCAAAGAATAGTTAAGTAATATAAACTGTGTTTATTACACTGCTGATACAACTACAGATGG
GACAGTAAATGTTTCAGCATTCTTGGATCAGAAGAAAACGGACTAATTAGATGCTTTCCTTTGTCTGGTGGTGTCT
TTGAAAACATACTTTAATGGGAGAAATCATGGAAAGAAATTTCTCAACAGAATAACTGAAAACCTGCCTTTTCTGT
ACCGATTGCTTTTTTGTGTGTGTGGTATAATAAAATCTTTATTCAATTTTACAGAAAAA

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FIGURE 1194

MATAVSRPCAGRSRDILWRVLGWRIVASIVWSVLFLPICTTVFIIFSRLDLFHP IQWLSDFSFDLYSSYVIFYFL
LLSVVIIIIISIFNVEFYAVVPSIPCSRLALIGKIIHPQQLMHSFIHAAMGMVMAWCAAVITQGQYSFLVVPCTGT
NSFDSPAAQTCLNEYHLFFLLTGAFMGYSYSLLYFVNNMNYLPFP IIQQYKFLRFRRSLLLLVKHSCVESLFLVR
NFCILYYFLGYIPKAWISTAMNLHIDEQVHRPLDTVSGLLNLSLLYHVWLCGVFLTTWYVSWILFKIYATEAHV
FPVQPPFAEGSDECLPKVLNSNPPPIIKYLALQDLMLLSQYSPSRRQEVFSLSQPGGHPHNWTAISRECLNLLNG
MTQKLILYQEAATNGRVSSSYPEPKLNSPEETAFTQPKSSQMPRPSVPPLVKTSLSFSSKLSTPDVVSPFGTP
FGSSVMNRMAGIFDVNTCYGSPQSPQLIRRGPRLWTSASDQOMTEFSNPSPTSISAEGKTMRQPSVIYSWIONK
REQIKNFLSKRVLIMYFFSKHPEASIQAVFSDAQMHIALEGLSHLVAASFTEDRFGVVQTTLPAILNTLLTLQE
AVDKYFKLPHASSKPPRISGSLVDTSYKTLRFAFRASLKTAIYRITTTFGEHLNAVQASAEHQKRLQQFLEFKE

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FIGURE 1195

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCCGCTCGCGCTCCCCTGGCCACACCCTCCGCCT
GGACGCAGCAGCCACCGCCGCGTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCCAGCTCCGACATGTCGCC
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCAC
GTCCAGTTCTTCAGCAGACTCAACTATCATGGACATTGAGGTCCCGACACGAGCCCCAGATGCAGTCTACACAGA
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCAGACCCAGACCCAGCAACT
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAGCAGCTCATCCCAGTATGA
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCGAGACCCCTCAAGCCATCTGG
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCTCCGGAAACGGGGGCTGTTGGTCGCAGCTGTGCT
GTTTCATCACAGGCATCATCATCCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGGTTATGCCGGAATCGTTGCAG
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCGTGCC
CAGCCTCCTGCATCCCCTCGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC
GGTCCGAGTCTCCTACCTCCCCCAACCTGCCCGCCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGCC

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FIGURE 1196

MSPSGRLCLLTIVGLILPTRGQTLKDTTSSSSADSTIMDIQVPTRAPDAVYTELQPTSPPTWPADETPQPQTQT
QQLEGTDGPLVTDPEHKSTKAAHPTDDTTTLSERPSPSTDVQTDQPQLKPSGFHEDDPFFYDEHTLRKRGLLVA
AVLFITGIIILTSKGCRQLSRLCRNRCR

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FIGURE 1197

TGGCGGCGGCGGCGGCGGTTGTCCCGGCTGTGCCGGTTGGTGTGGCCCGTCAGCCCGGTACACAGCGCCCGGG
CCGCGTCGAGCCAGTACAGCCAAGCCGCTGCGGCCGGGTCCGGCGCGGGCGGCGCGCAGACGGAGGGCGGCG
GCCGCGGCCAGGGCGGCCCCGTGGGACCGCGGGCCCCCGGCGCAGCGCTGCCCGGCTCCCGGCCCTGCCGGCCTCC
TCCCTTGGCGCCGCGGCCATGGCGGCCAGCGCGAAAGCGGAAGCAGGAGGAGAAGCACCTGAAGATGCTGCGGGAC
ATGACCGGCCTCCCGCGCAACCGAAAGTGCTTCGACTGCGACCAGCGCGGCCCCACCTACGTTAACATGACGGTC
GGCTCCTTCGTGTGTACCTCCTGCTCCGGCAGCCTGCGAGGATTAAATCCACCACACAGGGTGAAATCTATCTCC
ATGACAACATTACACAACAGGAAATTGAATTCTTACAAAACATGGAAATGAAGTCTGTAAACAGATTTGGCTA
GGATTATTTGATGATAGATCTTCAGCAATTCCAGACTTCAGGGATCCACAAAAGTGAAAGAGTTTCTACAAGAA
AAGTATGAAAAGAAAAGATGGTATGTCCCGCCAGAACAAGCCAAAGTCGTGGCATCAGTTTCATGCATCTATTTCA
GGGTCTCTGCCAGTAGCACAAGCAGCACACCTAGTCAGTCCCCAGTTGTAGGTGCTTCTCAAGGGCAGCAGCAGGAGAAG
ACACTGCACTTAAATAAGGGCACACCTAGTCAGTCCCCAGTTGTAGGTGCTTCTCAAGGGCAGCAGCAGGAGAAG
AAGCAATTTGACCTTTTAAGTGATCTCGGCTCAGACATCTTTGCTGCTCCAGCTCCTCAGTCAACAGCTACAGCC
AATTTTGCTAACTTTGCACATTTCAACAGTCATGCAGCTCAGAATTCTGCAATGCAGATTTTGCAAACCTTTGAT
GCATTTGGACAGTCTAGTGGTTCGAGTAATTTTGGAGGTTTTCCCCACAGCAAGTCACTCTCCTTTTCAGCCCCAA
ACTACAGGTGGAAGTGCTGCATCAGTAAATGCTAATTTTGCTCATTTTGATAACTTCCCCAAATCCTCCAGTGCT
GATTTTGGAACCTTCAATACTTCCCAGAGTCATCAAACAGCATCAGCTGTTAGTAAAGTTTCAACGAACAAAGCT
GGTTTACAGACTGCAGACAAATATGCAGCACTTGCTAATTTAGACAATATCTTCAGTGCCGGGCAAGGTGGTGAT
CAGGGAAGTGCTTTGGGACCACAGGTAAAGCTCCTGTTGGTTCGTGGTTCAGTTCAGTCAGTCAAGTGCA
TCTTCAGACAAGTATGCAGCTCTGGCAGAACTAGACAGCGTTTTTCAGTTCGTGCAGCCACCTCCAGTAATGCGTAT
ACTTCCACAAGTAATGCTAGCAGCAATGTTTTTGGAACAGTGCCAGTGGTTGCTTCTGCACAGACACAGCCTGCT
TCATCAAGTGTGCTGCTCCATTGGACGTACGCCTTCCACAAATCCATTTGTTGCTGCTGCTGGTCTTCTGTG
GCATCTTCTACAAACCCATTTAGACCAATGCCAGAGGAGCAACAGCGGCAACCTTTGGCACTGCATCCATGAGC
ATGCCACCGGATTTCGGCACTCCTGCTCCCTACAGTCTTCCCACCAGCTTTAGTGGCAGCTTTCAGCAGCCTGCC
TTTCCAGCCCAAGCAGCTTTCCCTCAACAGACAGCTTTTTCTCAACAGCCCAATGGTGCAGGTTTTGCAGCATTT
GGACAAACAAAGCCAGTAGTAACCCCTTTTGGTCAAGTTGCAGCTGCTGGAGTATCTAGTAATCCTTTTATGACT
GGTGCACCAACAGGACAATTTCCAACAGGAAGCTCATCAACCAATCCTTTCTTATAGCCTTATATAGACAATTTA
CTGGAACGAACTTTTATGTGGTCACATTACATCTCTCCACCTCTTGCACTGTTGTCTTGTTCCTGATCTTAGC
TTTAAACACAAGAGAAGTCTTTAAAAGCCTGCATTGTGTATTAAACACCAGGTAATATGTGAAAACCGAGGGC
TCCAGTAACACCTTCTAACCTGTGAATTGGCAGAAAAGGTAGCGGTATCATGTATATTAAAATTGGCTAATATT
AAGTTATTGCAGATACCACATTCATTATGCTGCAGTACTGTACATATTTTTCTTAGAAATTAGCTATTTGTGCAT
ATCAGTATTTGTAACTTTAACACATTGTTATGTGAGAAATGTTACTGGGGAATAGATCAGCCACTTTTAAGGTG
CTGTCATATATCTTGAATGAATGACCTAAAATCATTTTAACCATTGCTACTGGAAAGTAACAGAGTCAAAAATTG
GAAGGTTTTATTCACTTGAATTTTTCTTTCTAAAGAGCTCTTCTATTTATACATGCCTAAATTTCTTTTAAAA
TGTAGAGGATACCTGTCTGCATAATAAGCTGATCATGTTTTGCTACAGTTTGAGGTGAAAAAAATAAATAT
TATAAATAAAAAAAAAAAAAAAAAAGAAAAAAAAA

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FIGURE 1198

MAASAKRKQEEKHLKMLRDMTGLPRNRKCFDCDQRGPTYVNMTVGSFVCTSCSGSLRGLNPPHRVKSISMTTFTQ
CEIEFLQKHGNEVCKQIWLGLFDDRSSAIPDFRDPQKVKEFLQEKYEKKRWYVPPEQAKVVASVHASISGSSASS
TSSTPEVKPLKSLLGDSAPTLHLNKGTPSQSPVVGSRSQGQQQEKQFDLLSDLGSDIFAAPAPQSTATANFANFA
HFNSHAAQNSANADFANFADFQSSGSSNFGGFPTASHSPFQPQTGGSAASVNANFAHFDNFPKSSSADFGTFN
PHQTASAVSKVSTNKAGLQTADKYAALANLDNIFSAGQGGDQSGFGTTGKAPVGSVVSVPSQSSASSDKYA
LDSVFSSAATSSNAYTSTSNASSNVFGTVPVVASAQTPASSSVPAFPGRTPSTNPFVAAAGPSVASSTNP
TNARGATAATFGTASMSMPTGFGTPAPYSLPTSFSGSFQQPAFPAQAAFPQQTAFSQQPNGAGFAAFGQTKPV
VTPFGQVAAAGVSSNPFMTGAPTGQFPTGSSSTNPFL

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FIGURE 1199

TGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTTCGGACCCCTCCATCTTCGGTTTTGCACACCCCGCTTTCCAGCGCGGAGT
CGGGCGGGGGTAGGGCGGCGTCGCGTGCGTGACGTATCCAGCGGCGCCATCGGAGGCTCCAGTGGCCTTGACCT
CCCGCGTCGTGTAGGCCTGCGCGGCGATCTGCAGTTTCGTCCGGGCCGGGGCGGGGCTGGCTTCGGCCTACCG
GCAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGCGTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGG
GTC'TCCCGAGCCCCTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTCTG
AGTCCTTGGGGGCTTCGAGCAGGAGCGCGTGGGCCTGGCCGACCTGCACCCCGATGTTTTCGCCACCGCGCCCA
GGCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGA
GAGCCGAGGTGCGGGGCGGTGGCGGAAAGCCTTTGGCCGCAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATC
CGCTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCCGGGGCCACAAGTTACTACTACATGCTGCCCA
TGAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACT
CCCTAGAGCTGCCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTAC
TCCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACT
TGATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCCTGACGCTGCCACCGTCG
CCTTCCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCG
ACTTCCCCCGACCCCTACCCACGCTACCCAGGGCCCAGCGGCCACCCCGTACCACTGTGATGTGAAGCACCTC
TTCTGAGCCAGGCCGAGCCCCTGGACGACTTGGGAGCCTCAGGCCACGCCCACCCCTTCGAGGAAGGTGTCACCT
GGCCCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGG
AGAGCCCAGACGGGGCTTCTTGCATCCATTCCCTCTTTTTGTTTTTAAATAAATTGTATTTTTGG

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FIGURE 1200

MLQFVRAGARAWLRPTGSQGLSSLAEAAARATENPEQVASEGLPEPVLRKVELPVPTHRRPVQAWVESLRGFEQE
RVGLADLHPDVFATAPRLDILHQVAMWQKNFKRISYAKTKTRAEVRGGGGKPLAAERHWAGPAWQHPLSALARRR
CCPWPPGPTSYYYMLPMKVRALGLKVALTVKLAQDDLHIMDSLELPTGDPQYLTELAHYRRWGDSVLLVDLTHEE
MPQSIVEATSRLKTFNLIPAVGLNVHSMMLKHQTLVLTLPVAFLEDKLLWQDSRYRPLYPFSLPYSDFFRPLPHA
TQGPAAATPYHC

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FIGURE 1201

TTTTTTTTTTTTTTGGAGTTATACCTTTGGTTCTGTTTTTACCCTTTATTTGGAATACAGTGCAACATTACAGT
TTTGGATCATTAAATGAATGGACTTGGTGATATAGTACTAACAAGCACGACCTGAATTCGGGAGTAAGTGGTTT
TCTAGTTTCATGGGGGAGGAAAACAGATACGTGCAAGATCTCCAGAGGAGAACAGAACCATGGTACTCAGTGAGTC
ACCAAAGGGCTTTGGCTTCAACTCACTAATGGCTGGAACAAGTGCCAGTCTTGGTGAGCCATCCAGGATTTTCAT
CACAGCAAATCAAATCTCCAATTTTTCAAACCTAATTGTAGGTAGAAGAGAGAGAATAACTCCAACTGTCTTAT
AAAAGGATCTAGATGACTACTGAAGTGTCTCCATTTCATGAGTTGGCAAATCTTCAGAGTGACTGTTGGAGCAA
GGAGCCTTTTCATGTGCTCCCAGTTATTATATAGTGCATAGAGGCTGGTAAGTGTAGTCTGTGAGACCACCTCG
TGCTATCCCTCGAAGACCACCTTTGGACTCTGGATGGGTCTCCAAATATTAACCTTGAAGATTAGTGACGGCCA
GGCATGGTGGCTCACACATGTAATCCCAGCACCTTTGGGAGGCTGAGGCAGGCTTGAGCTCAGGAGTTTGAGAACA
ACCTAGGCAACACGGCAAAACCCCTGTCTCTGCAAAAAATAGAAAAATTAGCTTAGTGGGGTGGCATGCGCCTGTG
GTCCCAGCTATTTGGGAGGCTGAGGTAGGAGGATCGCTTGAGCCCAGGAGGTCGAGGCTGCAGTGAGCTGAGATT
ACACCACTGCACTCCAGCCTGGGTGACAGAGTGAGAAAGAAAAAATGTGGTAAGATAGCTATAATCACACT
TTGAGTTAGATGCTGGTGACCACCCCCACTTCATGCACTGACGCATCAATCTCCACAATTAAAAACAGTGAG
TGACACCTAGCATCATGCTAGTTGAAAAGAACTCAAGAATTACAGATATTGAACTACCTGCTTGATAACAAGTGA
ACAATTTTACATGTGGCAAAAGATTAGCAACAAGGATTTCACTTGCAATGGAGAAACAAAAATATTTCAATCGGT
TACTTAAAAATAGTCCCCAAGTGTAATAAAAGGAAGCTACAGATAAATTTCTCAAAATAAAAAGGCCTAACTGC
TTATGGTTATAAAATGTTAGTCTTACAAACGTAATGTGGCAAAGAGAAACCAAGCTACAAAACCTCCTCAGGAATG
GGGGTGCCCAAGCAGCTTTTTTAAAAATGTGAAGTCCTCAAGCAGCTCCATGAGTAGGGATCATAACTTCAGG
TAGCCATCTTTGTACCTAGAGTGTATTTGTTCCAAGTCATGTGTTAGGGAGACAGAGGTAGAGCGGAGTTGTGGG
GGTGGCTAGAGGCCCTTTTAGCTCCGTGCCTGTCAATTCTGTGACATTCAGTGATGTTGCTGAGCTACAACATTT
CAGAACTAACCATTTCTGCAACGAGCGTCCTACCAGATGGCTTCAGCTGATGGATTAAAGGGCCACTCCCCCTCC
AGGAATCTCTCCAGTCTGAAGACTTCTGATAGCTGACCTGCTTACGTTCTTCTTAGTTTTTCCAATGCTAAGTGTC
ATAATTATCTCTCTCAAACAGAACTGCAGACATTATCTATAAACAG

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FIGURE 1202

MVLSESPKGFNLSMAGTSASLGQPSRIFITANQNLQFFKLIVGRRERITPNCLIKSR

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FIGURE 1203

GCAGAGGTGCGGCCGGGGAGGCGCGGGAGGCTGGAGCTGGAGGCGCGGCCGGTGAGCTGAGAACCATGTGTG
CTCAGTATTGCATCTCCTTTGCTGATGTTGAAAAAGCTCATATCAACATTTCGAGATTCTATCCACCTCACACCAG
TGCTAACAAAGCTCCATTTTGAATCAACTAACAGGGCGCAATCTTTTCTTCAAATGTGAACCTCTCCAGAAAACAG
GATCTTTTAAAGATTTCGTGGTGCTCTCAATGCCGTCAGAAGCTTGGTTCCTGATGCTTTAGAAAGGAAGCCGAAAG
CTGTTGTTACTCACAGCAGTGGAAACCATGGCCAGGCTCTCACCTATGCTGCCAAATTGGAAGGAATTCCTGCTT
ATATTGTGGTGCCCCAGACAGCTCCAGACTGTAAAAAACTTGCAATACAAGCCTACGGAGCGTCAATTGTATACT
GTGAACCTAGTGATGAGTCCAGAGAAAAATGTTGCAAAAAGAGTTACAGAAGAAACAGAAGGCATCATGGTACATC
CCAACCAGGAGCCTGCAGTGATAGCTGGACAAGGGACAATTGCCCTGGAAGTGCTGAACCAGGTTCTTTGGTG
ATGCACTGGTGGTACCTGTAGGTGGAGGAGGAATGCTTGCTGGAATAGCAATTACAGTTAAGGCTCTGAAACCTA
GTGTGAAGGTATATGCTGCTGAACCTCAAATGCAGATGACTGCTACCAGTCCAAGCTGAAGGGGAAACTGATGC
CCAATCTTTATCCTCCAGAAACCATAGCAGATGGTGTCAAATCCAGCATTGGCTTGAACACCTGGCCTATTATCA
GGGACCTTGTGGATGATATCTTCACTGTACAGAGGATGAAATTAAGTGTGCAACCCAGCTGGTGTGGGAGAGGA
TGAAACTACTCATTGAACCTACAGCTGGTGTGGAGTGGCTGCTGTGCTGTCTCAACATTTTCAAACCTGTTTCCC
CAGAAGTAAAGAACATTTGTATTGTGCTCAGTGGTGGAAATGTAGACTTAACCTCCTCCATAACTTGGGTGAAGC
AGGCTGAAAGGCCAGCTTCTTATCAGTCTGTTTCTGTTTTAATTTACAGAAAAGGAAATGGTGGGAATTCAGTGT
TTTAGATACTGAAGACATTTTGTTCCTAGTATTGTCAACTCTTAGTTATCAGATTCTTAATGGAGAGTGGCTAT
TTCATTAAGATTTAATAGTTTTTTTTTGGACTAAGTAGTGGAACCTTTTATACTTAAGTACATTTTGTCAA
GGCTAAAAAAAGTCTTGCAAAATGGGGCAGTGGACTGACAGGCTGACATAGAAAATAAATTTGCCCAATCACA
ACTTGTGCCTCCCATCCCTGGAGTACTGACTGGCACCGGTAAGACAGAATCTCTCTGAATCCATTACTCCATGCC
CCCTTGAGGCACTGTTGAAGAAATCTCACTTTTTCAGCCAGGGTACTGGTCTGGTACATATGGATCATAAGTCCA
TTTGGGGAAAGACTCGTTTATACAGGTTTCATCAGTACTGTGTCTTGAGATTTTAGCTTCCCATCAAAGCTGCATTT
CATGTGGCCATGGGTACCTAGAAAGACATCAGAAACAGTCGGTCAAATTAAGTAGAAAATTTTAAAGCAATGA
CTTCCAACCCACAGTCATTTAGCAACACTGCAGAAATGCAGACATGGTCTCAAATCCCGTGTTCCTTACCTAA
AGGTTCTTGATATGTCCTCTCCGGCCCCACTTCGTTCTCAGTTCCACTGGTTTAAACCACAGCACATCCTCTTA
GAATCAAACACATTAAAGACCAAGATGAAACATTTACCCACAAAATGTAAACCCAACTTTTATACCACAAAGGCA
ATCAGATCCCATCCTCCTCCTTCATACCCACCTCTGTTGAAGAACATGTAACGTACTACTGCCATCTTAGTAAAA
ATTTTGAAAGGATGACCACTCAGAACAACCTCTCTTGATGACCATTCTGTCTGGATCTACTGACATAAGATGGCCT
GTAGCAATGAGGCTGTGCATTCTTAAAGGACAAAAGCAAAGAAGCTATTTAGGAATTTACAGGCCAAAGTCTTCA
TTTATTGCCCAGTCCATTTTAAAGACCCATGCAAGAGCCTGGTTTGTCTATCCCTGCCCTAGCCCAATCTGAGGCTA
AGATTGGTAAACTGTAAGCCCACACTTAACCTTGTCAATAGGTTCTTGAAAACCTGTACTTCAAGAGAAATGATG
TATAACAAAACCATACTTTTTCTCATCAGTTGTTACAAGGAAAGGATGTTGAACAAAAGGCAGTTATTTGAGGAC
TGGCTATACACTGTTTACGTAAGTGGAGTTTTATTGTTCTATTAAACAATGTTAAATGAAGACTTACTGTA
TTTTGAAAACCATCATTACCTTCTCCATACCATTGGCTCCCAAATTTAAATAAACAAGAGAAAACGGTGTTCAT
CT

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FIGURE 1204

MCAQYCISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGALNAVRSLVPDALERK
PKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPDCKKLAIQAYGASIVYCEPSDESRENVAKRVTEETEGIM
VHPNQEPAVIAGQGTIALEVLNQVPLVDALVVPVGGGGMLAGIAITVKALKPSVKVYAAEPSNADDCYQSKLK GK
IMPNLYP PETIADGVKSSIGLNTWPIIRD LVDDIFTVTEDEIKCATQLVWERMKLLIEPTAGVGVAAVLSQHFQT
EVKNICIVLSGGNVDLTSSITWVKQAERPASYQSVSV

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FIGURE 1205

CACGAGGGGGACCCGGGCCGCGTGGGCGCCGGGATGGAGGGCGCCAAGGGGCGGGGAGCGGGCGTGCGTGTGTGT
GCGAGTGCGAATGCGAGGGAGGCCGGCCTTGAGTGAAACCGGAGCTACAAAGAAGGGGAGAGTCCGGGAGCGGGA
GGGCGCGAGGGAGGAGCGGGCGGCTCCGGGGCAGCTCCGACGCCCTCCCGCGGGGAAGGAGCCCCGCGGTGCCGC
CGAGGCCCCGACGCGGGGCCGCCCTCGGCTCGCCGCCCGCGCCCGCGCCGCTGGGAATGATGAAGAAGAACA
ATTCCGCCAAGCGGGGACCTCAGGATGGAAACAGCAGCCTGCACCGCCCGAGAAGGTGGGCTGGGTCCGGAAAT
TCTGCGGGAAAGGGATTTTCAGGGAGATTTGGAAAAACCGCTATGTGGTGCTGAAAGGGGACCAGCTCTACATCT
CTGAGAAGGAGGTAAAAGATGAGAAAAATATTCAAGAGGTATTTGACCTGAGTGACTATGAGAAGTGTGAAGAGC
TCCGGAAGTCCAAGAGCAGGAGCAAGAAAAATCATAGCAAGTTTACTCTTGCCCACTCCAAACAGCCCGGTAACA
CGGCACCCAACCTGATCTTCCTGGCAGTGAGTCCAGAAGAGAAGGAATCGTGGATCAATGCCCTCAACTCTGCCA
TCACCCGAGCCAAGAACCGTATCTTGGATGAGGTACCGTTGAGGAGGACAGCTATCTTGCCCATCCCACTCGAG
ACAGGGCAAAAATCCAGCACTCCCGCCGCCCCCAACAAGGGGACACCTAATGGCTGTGGCTTCCACCTCTACCT
CGGATGGGATGCTGACCTTGGACTTGATCCAAGAGGAAGACCTTCCCTGAGGAACCAACCTCTTGTGCTGAGA
GCTTTGCGGTTGACCTGGACAAGTCTGTGGCCAGCTGGCAGGGAGCCGGCGGAGAGCGGACTCAGACCGCATCC
AGCCCTCCGCAGACCGGGCAAGCAGTCTCTCCGACCTTGGGAAAAACAGACAAAGGGGCCACCTACACCCCCC
AGGCACCCAAGAAGTTGACGCCCACAGAGAAAGGCCGCTGCGCCTCCCTGGAGGAGATCCTATCTCAGCGGGATG
CTGCCTCTGCCCCGACCCCTCCAGCTGCGGGCTGAGGAACCCCCAACCCCTGCCCTCCCCAACCCGGGGCAGCTGT
CCCGGATCCAGGACCTGGTAGCAAGGAACTGGAGGAGACTCAGGAGCTTCTGGCAGAGGTTGAGGGACTGGGAG
ATGGGAAGCGAAAGGCCAAGGACCCCCCTCGGTCTCCGCCGATTCTGAGTCAGAGCAGCTGCTGCTGGAGACGG
AACGGCTGCTGGGAGAGGCATCATCGAATTGGAGCCAGGCAAAGAGGGTGCTGCAGGAGGTCAGGGAGCTGAGAG
ACCTGTACAGACAGATGGACCTGCAGACCCCGGACTCCCACCTCAGACAGACCACCCCGCACAGTCAGTACCGGA
AGAGCCTGATGTAGAGGGCAGGGTGGGGTCTGGAACCTGTGCGGGTGGACAGACTCTTATCTCCGTGTTGCTGGAT
AAAGCTTTTTTATTACCTCAATCAAAAAAGAAAAACAAAAATGAAAAAAAAAAAAA

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FIGURE 1206

MMKKNNSAKRGPQDGNQQPAPPEKVGWVRKF CGKGIFREIWKNRYVVLKGDQLYISEKEVKDEKNIQEVFDLSY
EKCEELRKSKSRSKKNHSKFTLAH SKQPGNTAPNLIFLAVSPEEKESWINALNSAITRAKNRILDEVTVEEDSYL
AHPTRDRAKIQHSRRPPTRGHLM AVASTSTSDGMLTLDLIQEEDPSPEEPTSCAESFRVDLDKSVAQLAGSRRRA
DSDRIQPSADRASSLSRPWEKTDKGATYTPQAPKKLTPTEKGRCASLEEILSQRDAASARTLQLRAEEPPTPALP
NPGQLSRIQDLVARKLEETQELLA EVQGLGDGKRKAKDPPRSPDSESEQLLLETERLLGEASSNWSQAKRVLQE
VRELRLYRQMDLQTPD SHLRQTTPHSQYRKSLM

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FIGURE 1207

CCCGCGTGCATACGGTTGCCGGCATGGCACATTACAACCTCAAGAAAATTACGGTGGTGCCGTCCGCCAAGGACT
TCATAGACCTCACGTTGTCTGAAGACTCAACGAAAGACTCCAACCGTTATTCATAAACATTACCAAATACATCGCA
TTAGACATTTTTACATGAGAAAAGTCAAATTTACTCAACAGAATTACCATGATAGACTTTCACAAATTCTAACAG
ATTTCCCCAAATTGGATGATATTCATCCGTTCTATGCTGATTTGATGAATATTCTCTACGACAAGGATCATTACA
AGTTGGCTCTGGGGCAAATAAATATTGCCAAAAATTTAGTGGACAATGTTGCTAAAGATTATGTGCGACTGATGA
AGTATGGCGACTCTCTCTACCGCTGCAAACAGCTGAAGCGTGCGGCCCTGGGACGGATGTGCACAGTGATCAAGA
GGCAGAAGCAGAGTTTGGAGTATTTGGAGCAAGTGCCTCAGCATTTATCCCGTTTGCCAACCATTGATCCGAATA
CCAGGACCCTGCTTTTGTGTGGGTACCCAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGAGAGCAGACG
TGGATGTCCAGCCCTATGCGTTTACAACCAAGTCTCTGTTTGGTGGGCACATGGATTATAAGTATCTACGTTGGC
AGGTTGTAGACACTCCTGGGATCCTGGACCACCCTCTGGAGGATAGGAACACCATCGAGATGCAGGCCATCACTG
CCCTGGCCCACCTCCGTGCTGCGGTCTGTATGTGATGGATTGTTCTGAGCAGTGTGGGCATGGGCTGAGGGAGC
AGCTAGAACTCTTCCAGAACATCAGACCTCTCTTCATCAACAAGCCTCTCATAGTTGTAGCCAACAAATGTGATG
TGAAGAGAATAGCTGAACCTTTCTGAAGATGATCAGAAAATATTTACAGATTTGCAGTCTGAAGGATTCCCTGTAA
TAGAGACCAGCACCTGACTGAGGAAGGTGTTATTAAAGTTAAACAGAGGCTTGCGATAGGCTTTTGGCTCATC
GAGTGGAAACCAAAATGAAGGGAAATAAAGTGAATGAGGTGCTGAATAGACTGCACCTGGCTATCCCAACCAGGA
GGGACGATAAGGAGAGGGCCCCCTTTCATCCCTGAAGGAGTGGTGGCTCGCAGGAAGAGGATGGAACTGAGGAGT
CCAGGAAGAAGAGGGGAACGAGATCTTGAGCTGGAATGGGAGATGATTATATTTTGGATCTTCAGAAGTACTGGG
ATTTAATGAATTTGTCTGAAAAACATGATAAGATACCAGAAATCTGGGAAGGCCATAATATAGCTGATTATATTG
ATCCAGCCATCATGAAGAAATTGGAAGAATTAGAAAAAGAAGAAGAGCTGAGAACAGCTGCTGGAGAGTATGACA
GTGTATCTGAGAGTGAAGACGAAGAGATGCTGGAAATCCGACAGCTGGCAAAGCAAATTCGAGAGAAAAAGAAGT
TGAAAAATCTGGAGTCCAAAGAAAAGAATACACAGGGACCCAGGATGCCGCGAACTGCTAAGAAGGTTGAGAGGA
CAGTTTTGGAGAAGGAGATGCGTAGTCTTGGTGTGACATGGACGATAAAGACGATGCCATTACGCAGTCCAGG
CAAGAAGATCCCGGAGCATCACTAGGAAAAGAAAGCGGGAAGACTCTGCTCCCCGTCCTCTGTGGCCCGGAGTG
GGAGTTGCTCTCGAACTCCACGTGACGTTTCTGGTCTTAGGGATGTCAAGATGGTGAAGAAAGCCAAGACTATGA
AGAATGCTCAGAAGAAGATGAATCGGTTGGGGAAGAAAGGGGAGGCGGATAGACACGTGTTTGATATGAAGCCCA
AGCACTTGCTGTCTGGGAAGAGGAAAGCTGGTAAAAAGGACAGGAGATAGTATCCGTTTGGTTGGCGTGGCTTCG
CTAGAGTGTGCTGTTTATTTCTGGTTTGGTACAGTATGGTTTCATGAAATTGGAGCTCTGTACAACTGAAAA
AGACAAAATAAGTAAAGCACTTGTGCTTTGCTGAAAACTATGGTTAACCTATATAGGTGTGGGAAATTTTGT
CACTGCATAATATTACAAATATTTTGGAGTAGACAGTGTTCACATTTAATGGAGTATCAGTTGCTTCAGATTTT
CAGAACTGGGAAGATTTACTGGTGTAACTGGGTTGTTTTGATGGAGAAAAACCTTATTTTCTTTTGTAAAGAGCT
GGGAGCAAACACGTTTATGAGTGTGTGCGGAATCCCGTGCTTAAATACGCTCTTAAATTATTTTCTAGTCTTATT
TTACAATGTCTCATTGTAGTCTGTCTTCAACTATTTTATCCAAAATAAACCTCCAGAAGAACTAAAAAAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 1208

MAHYNFKKITVVP
SAKDFIDLTLSKT
QRKTPTVIHKHYQ
IHRIRHFYMRKV
KFTQQNYHDRLS
QILTDFPKLDDI
HPFYADLMNILY
DKDHYKLALGQI
NIAKNLVDNVAK
DYVRLMKYGDSL
YRCKQLKRAALG
RMCTVIKRQKQS
LEY
LEQVRQHLSRLP
TIDPNTRTLLLC
GYPNVGKSSFIN
KVTRADVDPYAF
TTKSLFVGHM
DYKYLRWQVVD
TPGI
LDHPLEDRNTIE
MQAITALAH
LRAAVLYVMDL
SEQCGHGLREQ
LELFQNI
RPLFINKPLIV
VANKCDVKRIA
ELS
EDDQKIFTDLQ
SEGFPVIETST
LTEEGVIKVK
TEACDRLLA
HRVETKMKGN
KVNEVLNRLH
LAIPTRDDK
ERPP
FPIEGVVAR
RKRMETEESR
KKRERDLELE
MGDDYILD
LQKYWDL
MNLSEKH
DKIPEI
WEGHNI
ADYIDP
AIMKKL
EELEKEEEL
RTAAGEYD
SVSESE
DEEMLEI
RQLAKQI
REKKL
KILES
KEKNT
QGPR
MPRTAK
KVQRT
VLEK
EMR
SLG
VDMDD
KDDA
HYAV
QARR
SRSIT
RKRK
REDS
APPSS
VAR
SGSC
SRTP
RDV
SGL
RDV
KMV
KKAK
TMK
NAQ
KKMN
RLG
KKGE
ADRH
VFD
MKP
KHLL
SGK
RKAG
KKD
RR

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FIGURE 1209

GGCTGCGAGAAGACGACAGAAGGGGGAAGGGGCTGATGCGAACTGGGGCCACGGTAGCCATCGCGCTTTGCAGTT
CGGTCTCCTGGTGTACGGCCAACGCCAAGTAGGGGATTGCGTTCCCTCCAGTCGCAGACCCTATCAGATTTGGAT
ATGTCCTTCATATTTGATTGGATTTACAGTGGTTTTCAGCAGTGTGCTACAGTTTTTAGGATTATATAAGAAAACT
GGTAAACTGGTATTTCTTGGATTGGATAATGCAGGAAAAACAACATTGCTACACATGCTAAAAGATGACAGACTT
GGACAACATGTCCCAACATTACATCCCACTTCCGAAGAAGTACCATTGCTGGCATGACGTTTACAACCTTTTGAT
CTGGGTGGACATGTTCAAGCTCGAAGAGTGTGGAAAACTACCTTCCTGCTATCAATGGCATTGTATTTCTGGTG
GATTGTGCAGACCACGAAAGGCTGTTAGAGTCAAAAGAAGAAGCTTGATTCACTAATGACAGATGAAACCATTGCT
AATGTGCCTATACTGATTCTTGGGAATAAGATCGACAGACCTGAAGCCATCAGTGAAGAGAGGTTGCGAGAGATG
TTTGGTTTTATATGGTCAGACAACAGGAAAGGGGAGTATATCTCTGAAAGAACTGAATGCCCGACCCTTAGAAGTT
TTCATGTGTAGTGTGCTCAAAAGACAAGGTTACGGAGAAGGCTTCCGCTGGATGGCACAGTACATTGATTAACAC
AAACTCACATTGGTTCAGGTCTCAACGTTTACGGCTTACTCAGAGATTTGATTGCTCAACATGCATAACTTGAAT
TCAATAGACTTTTGCTGGTTATAAAACAGATGTTTTTTAGATTATTAATATTAAATCAACTTAATTTGAATGAGA
ATTGAAAAGTCAAGTAAGTTTGAGTATCACAATGTTAGCTTTCTAATTCATAAAAGTACTTGGTTTTTAC
AGTTTATAATCTGACATCACCCAGCGCCATTTGTAAAGAGCAACTTTCCAGCAGTACATTTGAAGCACTTTTTTA
ACAACATGAACTATAAACCATATTTAAAAGCTCATCATGTTAAATTTTATGTACTTTTCTGGAAGTATTTTT
TAAATTTTAGATTATATGTCCACCTATCTTAAGTGTACAGTTAATAATTAGCTTATTCAATGATTGCATGATGCC
TTACAGTTTTCAATAACTTTTTTTCTTATGCAAACGTCATGCAATAAAACAACTCTAATGTTTGGCAAAAAAA
AAAAA

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FIGURE 1210

MEFIFDWIYSGFSSVLQFLGLYKKTGKLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFD
LGGHVQARRVWKNYLPAINGIVFLVDCADHERLLESKEELDSLMTDETIANVPILILGNKIDRPEAISEERLREM
FGLYGQTTGKGSISLKELNARPLEVFMCSVLKRQGYGEGFRWMAQYID

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FIGURE 1211

CACGGGGCTGCGTGGAAGAGCGCCGAGCGGTGGCGTGTGTCGCCCCCTCCTCGTCGGGAAGAATCGTTTGGT
CTCCTGCCGTGCCCGGCCGGTGCTGCTGTCGCTGCTGCTGCCCGCGCGGGTTGTGGATGTTGTCGGCTCCGTGTT
GTGATGACAGGAGAATGTGTGTGTGTCCCGGGCCAGACGAATTGGAATCCAGTCAGAAGTTCCAGCCTGCCAC
TGTTCTCTGATGCCATGCCAGCACCAACTCAACTGTTTTTCTCTCATCCGTAAGTGTGAAGTGAAGCAGGATCT
ATGGCACTGCATGTTACTGCCACCACAAACATCTCTGTTGTTCTCTCATCGTACATTCTCAGAGTCGACTGAGAT
ACACACCTCATCCAGCATATGCTACCTTTTGCAGGCCAAAGGAGAAGTGGTGGCAGTACACCAAGGAAGGAGAT
ATGCTTCCACACCACAGAAATTTTACCTCACACCTCCACAAGTCAATAGCATCCTTAAAGCTAATGAATACAGTT
TCAAAGTGCCAGAATTTGACGGCAAAATGTCAGTTCTATCCTTGGATTTGACAGCAATCAAGCTGCCTGCAATG
CACCCATTGAGGACCGGAGAAGTGCAGCAACCTGCTTGCAGACCAGAGGGATGCTTTTGGGGGTTTTTGATGGCC
ATGCAGGTTGTGCTTGGTCCCAGGCAGTCAGTGAAAGACTCTTTTATTATATTGCTGGCTCTTTGGTACCCCATG
AGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGCGGCCGGGCACTGCTACCCATTCTCCAGTGGCACAAGCACC
CCAATGATTACTTTAGTAAGGAGGCATCCAAATGTACTTTAACAGCTTGAGGACTTACTGGCAAGAGCTTATAG
ACCTCAACACTGGTGAGTCGACTGATATTGATGTTAAGGAGGCTCTAATTAATGCCTTCAAGAGGCTTGATAATG
ACATCTCCTTGGAGGCGCAAGTTGGTGATCCTAATTCTTTTCTCAACTACCTGGTGCTTCGAGTGGCATTCTCTG
GAGCCACTGCTTGTGTGGCCCATGTGGATGGTGTGACCTTCATGTGGCCAATACTGGCGATAGCAGAGCCATGC
TGGGTGTGCAGGAAGAGGACGGCTCATGGTCAGCAGTCACGCTGTCTAATGACCACAATGCTCAAAATGAAAGAG
AACTAGAACGGCTGAAATTGGAACATCCAAAGAGTGAGGCCAAGAGTGTGCTGAAACAGGATCGGCTGCTTGGCT
TGCTGATGCCATTTAGGGCATTGGAGATGTAAAGTTCAAATGGAGCATTGACCTTCAAAGAGAGTGATAGAAT
CTGGCCAGACAGTTGAATGACAATGAATATACCAAGTTTATTCTCTAATTATCACACACCTCCTTATCTCA
CTGCTGAGCCAGAGGTAACCTTACCACCGATTAAAGGCCACAGGATAAGTTTCTGGTGTGGCTACTGATGGGTTGT
GGGAGACTATGCATAGGCAGGATGTGGTTAGGATTGTGGGTGAGTACCTAACTGGCATGCATCACCACAGCCAA
TAGCTGTTGGTGGCTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAACAGAAAGGAGAACCACAAATGTCCT
CGGTATTTGAGGATCAGAACGCAGCAACCCATCTCATTGCCACGCTGTGGGCAACAACGAGTTTGGGACTGTTG
ATCATGAGCGCCTCTCTAAATGCTTAGTCTTCTGAAGAGCTTGCTCGAATGTACAGAGATGACATTACAATCA
TTGTAGTTCAGTTCAATTCTCATGTTGTAGGGGCGTATCAAAACCAAGAAAAGTGAGTGGCTCTTTACTGGCAAT
TCTCAAATGATTACATTTAAAGGGCAGATTTTTTAAAGATCTACTATAATAAACATTTTCAGGTGGCATTCTAA
GCATTTACCCTTTTGATACTCTAGGGGCGCTCCAAATTGACTTTGCAGCAGGGTGGCAGGGCAGAAGAGTCTGGT
CCTGCCTAGCTCAGATTTTATGGCACCTGCACTTGAGGCAAGCACTTCTTTATCACAGGTGTCTTGAAACATTAG
CTTCTTTTACCAACCTGAGAAAATTAGGATGACCTGGCAAAATAAGATCTTGAATAGCCAAAAGCAAGTATCTTGC
TGTGTGTAGTCTCTTGGTTAAAGTGAAGAACAGTACTGTTTACACCTTTCTTCACTGAGATTCCAGTGACATGAG
AACATATATTTATTGCATGATTTTCTAGTACACAGTCTATGCATTATTATATACATTTATTTTAGCCTAAAGTG
GTTTTCAAATCCAGTTCTTCAAGCCATAAATGACCAAGATCCAAGCAATCTGAATTTGTTTTGTGATTATTTGA
CTGGAATGCTTCTTAAAGTGAATAACTATACTCCGTTATCCACCCGATTTCCTAATGTAATTGAAACATTTTCTA
GTTTGCCACACACTTGAGACCGTAAGGGTTTTAGTTTGATCTACTCTTCTATTGAAGTTAAAAAAAAAAAAAA
AAAAA

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FIGURE 1212

MLSAPCCDDRRMCVCPGPRRIGIPVRSSSLPLFSDAMPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYI
PQSRLRYTPHPAYATFCRPKENWWQYTQGRRYASTPQKFYLTTPQVNSILKANEYSFKVPEFDGKMSVLSLDLTA
IKLPANAPIEDRRSAATCLQTRGMLLGVDGHAGCAWSQAVSERLFYYIAGSLVPHETLLEIENAVESGRALLPI
LQWHKHPNDYFSKEASKLYFNLSRTYWQELIDLNTGESTDIDVKEALINAFKRLDNDISLEAQVGDPSFNLNYLV
LRVAFSGATACVAHVDGVDLHVANTGDSRAMLGVQEEDGSWSAVTLSNDHNAQNERELERLKLEHPKSEAKSVVK
QDRLLGLLMPFRAFGDVKFKWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAEPVITYHRLRPQDKFLV
LATDGLWETMHRQDVVRIVGEYLTGMHHQQPIAVGGYKVTLGQMHGLLTERRTKMSSVFEDQNAATHLIRHAVGN
NEFGTVDHERLSKMLSPEELARMYRDDITIIVVQFNSHVVGAYQNQEK

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FIGURE 1213

CCATGGAGTCAGCCGGGCTAGAGCAGCTCCTACGGGAGCTGCTGCTACCGGACACCGAGCGCATCCGTCGGGCCA
CGGAACAGCTCCAGATCGTTCTTCGGGCCCCCGCCGCTTTGCCGGCTCTCTGCGACCTGCTAGCCTCGGCGGCCG
ACCCCCAGATCCGCCAGTTTTCGGGCCGTGCTGACCCGCAGACGACTGAACACCCGCTGGCGACGGCTGGCGGCCG
AGCAACGGGAGAGCCTCAAGTCCCTGATCCTGACGGCCCTGCAGAGAGAAACAGAGCACTGTGTGAGCCTCAGCC
TGGCCCAGCTCTCAGCCACCATTTCGAAAGGAAGGCTTGGAGGCCTGGCCACAGCTTTTGAGCTGCTTCAGC
ACAGTACCCACAGCCCCACAGCCCAGAGAGAGAGATGGGGCTTTTGCTGCTAAGTGTGGTGGTGACCTCCCGGC
CCGAGGCCTTCCAACCCACCACCGGGAGCTTCTTCGGCTTCTGAATGAGACTCTTGGTGAGGTGGGCTCTCCTG
GGCTGCTCTTCTACTCCCTGCGCACTCTGACCACCATGGCTCCCTACCTCAGCACTGAAGATGTGCCTCTCGCTC
GGATGTTGGTGCCCAAGCTGATCATGGCCATGCAGACTCTGATCCCCATAGATGAGGCAAAGGCCTGTGAGGCC
TTGAGGCTTTGGATGAAGTGTGGAGTCAGAGGTGCCGTCATCACCCCTACCTCTCTGAAGTCTCACATTCT
GCCTGGAGGTAGCTAGAAATGTGGCCCTGGGCAATGCATACGCATACGTATTCTCTGCTGCCTCACTTTCTTGG
TCAAAGTCAAGAGCAAGGCCTTACTGAAGAATCGTCTCCTGCCACCCCTTCTGTCACACCCCTTTTCCCCATTGTGG
CTGCTGAGCCCCACCAGGCCAGTTGGATCCCGAGGACCAGGATTCAGAAGAGGAAGAGTTGGAGATTGAGCTGA
TGGGGGAGACTCCCAAGCATTTCGCTGTACAAGTTGTGGACATGCTGGCACTACACCTGCCCCCCGAGAAGCTCT
GTCCCCAGCTGATGCCCATGTTGGAAGAGGCTTTGCGGAGCGAGAGCCCATAACCAGCGCAAAGCTGGACTCCTGG
TGCTGGCCGTGCTGTCTGACGGAGCTGGCGACCACATCAGGCAGAGACTGCTGCCCCCACTGCTGCAGATTGTGT
GCAAGGGCCTGGAGGACCCCTCGCAAGTTGTACGCAATGCTGCGCTGTTGCCCTGGGCCAGTTCTCAGAAAACC
TACAGCCCCATATCAGCAGCTATTCAAGGGAGGTAATGCCACTGCTCCTCGCTACTTGAAGTCGGTGCCTCTTG
GACACACACACCACCTAGCCAAGGCCTGCTATGCCCTGGAGAATTTGTGGAGAACCTAGGGCCCCAAGGTGCAGC
CCTACCTTCCGGAGCTTATGGAATGCATGCTGCAGCTTCTGAGGAACCCAGCAGTCCCCGGGCCAAGGAGCTGG
CTGTGAGCGCCCTGGGAGCCATTGCTACGGCTGCCCAGGTCTCGCTGCTGCCCTACTTCCCTGCCATCATGGAGC
ACCTGCGGGAATTCTGTTAACAGGCCGTGAGGACCTTCAGCCTGTGCAGATCCAGAGCCTGGAGACACTGGGGG
TGCTGGCACGAGCAGTGGGGGAGCCCATGAGGCCGCTGGCTGAGGAATGCTGCCAGCTGGGTCTGGGCCTCTGCG
ACCAGGTAGACGACGCTGACTTGCGGCGCTGCACGTACAGCCTATTTGCAGCCTTATCGGGTCTGATGGGTGAGG
GCCTGGCGCCCCACTTGGAACAGATCACACGCTCATGCTGCTGTCACTGCGTTCCACCGAGGGCATTGTGCCTC
AGTATGACGGGAGCAGCTCCTTCTTCTGTTTACGATGAGAGTGATGGGGAAGAAGAGGAGGAGCTCATGGATG
AGGATGTGGAAGAAGAGGATGACTCAGAGATCTCAGGGTACAGCGTGGAGAATGCCTTCTTCGATGAGAAGGAAG
ACACCTGTGCTGCCGTGGGGGAGATCTCTGTGAACACCAGTGTGGCCTTCTTCCATACATGGAAAGTGTCTTTG
AAGAAGTATTTAACTGCTGGAGTGCCCTCACCTGAATGTGCGGAAGGCAGCCCATGAGGCTCTGGGTGAGTTT
GCTGTGCACTGCACAAGGCCTGTCAAAGCTGCCCTCGGAACCCAACACTGCTGCTTTGACGGCTGCCCTGGCCC
GAGTCGTGCCATCCTACATGCAGGCAGTGAACAGGGAGCGGGAACGCCAGGTGGTGATGGCCGTGCTGGAGGCC
TGACAGGGGTGCTCCGCAGCTGTGGGACCCTCACACTGAAGCCCCCTGGGCGCCTCGCTGAGCTCTGTGGCGTGC
TCAAGGCTGTGCTGCAGAGGAAGACAGCCTGTGAGGATACTGACGAGGAGGAGGAAGAGGAAGATGATGATCAGG
CTGAATACGACGCCATGTTGCTGGAGCACGCTGGAGAGGCCATCCCTGCCCTGGCAGCCGCGGCTGGGGGAGACT
CCTTTGCCCCATTCTTTGCCGGTTTCTTGCCATTATTGGTGTGCAAGACAAAACAGGGCTGCACAGTGGCAGAGA
AGTCCTTTGCAGTGGGGACCTTGGCAGAGACTATTACGGGCCTGGGTGCTGCCTCAGCCCAGTTTGTGTCTCGGC
TGCTCCCTGTGCTGTTGAGCACCGCCCAAGAGGCAGACCCGAGGTGCGAAGCAATGCCATCTTCGGGATGGGCG
TGCTGGCAGAGCATGGGGGCCACCCTGCCAGGAACACTTCCCCAAGCTGCTGGGGCTCCTTTTCCCCCTCCTGG
CGCGGGAGCGACATGATCGTGTCCGTGACAACATCTGTGGGGCACTTGCCCGCTGTTGATGGCCAGTCCCACCA
GGAAACCAGAGCCCCAGGTGCTGGCTGCCCTACTGCATGCCCTGCCACTGAAGGAGGACTTGGAGGAGTGGGTCA
CCATTGGGCGCCTCTTCAGCTTCTGTACCAGAGCAGCCCTGACCAGGTTATAGATGTGGCTCCCAGCTTCTGC
GTATCTGCAGCCTCATTCTGGCTGACAACAAGATCCACCAGACACCAAGGCCGCACTGTTGCTGCTCCTGACGT
TCCTGGCCAAAACAGCACACCGACAGCTTTCAAGCAGCTCTGGGCTCACTGCCTGTTGACAAGGCTCAGGAGCTCC
AGGCTGTACTGGGCCTCTCTAGACTGCAGGCTGCAGCCAGTCCAGAGAGAATAGAGCCTGCCCA

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FIGURE 1214

MESAGLEQLLRELLLPDTERIRRATEQLQIVLRAPAALPALCDLLASAADPQIRQFAAVLTRRRNLNTRWRRRLAAE
QRESLKSLILTALQRETEHCVSLSLAQLSATIFRKEGLEAWPQLLQLLQHSTHSPHSPEREMGLLLLSVVVTSRP
EAFQPHHRELLRLLNETLGEVGSPLLFYSLRTLTTMAPYLSTEDVPLARMLVPKLIMAMQTLIPIDEAKACEAL
EALDELLESEVPVITPYLSEVLTFCLEVARNVAGNAIRIRILCCLTFLVKVKSALLKNRLLPPLLHTLFPIVA
AEPPPGQLDPEDQDSEEELEIELMGETPKHFAVQVVDMLALHLPPEKLCPLMPMLEEALRSESPYQRKAGLLV
LAVLSDGAGDHIRQRLPPLLQIVCKGLEDP SQVVRNAALFALGQFSENLOPHISSYSREVMPLLLAYLKSVPLG
HTHHLAKACYALENFVENLGPKVQPYLPELMECMLQLLRNPSSPRAKELAVSALGAIATAAQVSLLPYFFPAIMEH
LREFLLTGREDLQPVQIQSLETGLVLAARAVGEPMRPLAECCQLGLGLCDQVDDADLRCTYSLFAALSGLMGE
LAPHLEQITTLMLLSLRSTEGIVPQYDGSSSFLLFDDESDEEEELMDEDVEEEDDSEISGYSVENAFFDEKED
TCAAVGEISVNTSVAFLPYMESVFEEVFKLLECPHLNVRKAAHEALGQFCCALHKACQSCPSEPNTAALQAALAR
VVP SYMQAVNRERERQVVMVLEALTGVLRSCGTLTLKPPGRLAELCGVLKAVLQRKTACQDTDEEEEEEEDDDQA
EYDAMLLEHAGEAIPALAAAAGGDSFAPFFAGFLPLLVCCTKQCTVAEKSFAVGTLAETIQGLGAASAQFVSRL
LPVLLSTAQEAADPEVRSNAIFGMGVLAEHGHPAQEHF PKLLGLLFPLLARERHDRVDRNICGALARLLMASPTR
KPEPQVLAALLHALPLKEDLEEWVTIGRLF SFLYQSSPDQVIDVAPELLRICSLILADNKIPPDTKAALLLLLT
LAKQHTDSFQAALGSLPVDKAQELQAVLGLS

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FIGURE 1215

GCTCCCTGGGGAACCCAGCAGGCGGCGAAGATGCGGAGAACAGCGGTTCGCGCCGGCAAGAGCAGCGGGAGCGGC
GCGGGGAAGGGGGCGGTGTCCGCAGAGCAGGTGATTGCTGGCTTCAACCGCCTTCGGCAGGAACAGCGAGGCCTG
GCATCCAAAGCAGCTGAGTTGGAGATGGAGTTGAATGAGCACAGCCTAGTGATCGATACACTGAAGGAGGTAGAT
GAAACTCGTAA'GTGCTACCGCATGGTTGGAGGAGTGCTGGTGGAGCGAACTGTCAAAGAGGTGCTGCCCCGCTTTG
GAGAACAACAAGGAGCAGATACAGAAGATCATTGAGACACTGACACAGCAGCTTCAGGCAAAGGGAAAAGAACTA
AATGAATTCCGGGAAAAGCACAAACATTCGTCTCATGGGAGAAGATGAGAAGCCAGCAGCCAAGGAAAACCTCAGAA
GGGGCTGGGGCTAAGGCCAGCTCAGCTGGAGTGTGGTCTCCTAGGGACCAAGGCCTTTGCATTTTTTTCTACCC
TGACTCCCACTTCTAATTTCTCTTTATTGTTATTATTATTATTTTCTCTGCTATTGTAATATTTTTTTGTTAATT
AAATGTTTTGGTCAGAATCTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1216

MAENSGRAGKSSGSGAGKGAVSAEQVIAGFNRLRQEQRLASKAAELEMELNEHSLVIDTLKEVDETRKCVRMG
GVLVERTVKEVLPALENNKEIQKI IETLTQQLQAKGKELNEFREKHNI RLMGEDEKPAAKENSEGAGAKASSAG
VLVS

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FIGURE 1217

GGCTTCCGTAGCGGGAGGGCGAAAGATGCGCGCGGCAGTACTGGGACAGTTGGGTGCGTTATGGATACATAACCT
GAGGAGCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCTCTTGACATTTC
TCGAAAATGGGAGAAGAAGAATAAAATTGTTTATCCTCCACAACCTGCCTGGAGAACCTCGGAGACCAGCAGAAAT
CTACCACTGTCTGAAGACAAATAAAATATAGCAAAGACAAGATGTGGTATTTGGCAAATTTGATACGAGGAATGTC
TATTGACCAGGCTTTGGCTCAGTTGGAATTCAATGACAAAAAGGGGCCAAAATAATTAAAGAGGTTCTCTTAGA
AGCACAAAGATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTCCAATTTATATATAGCTGAGTCCACCTCAGG
ACGAGGCCAGTGCTGAAACGCATCCGCTACCATGGCAGAGGTCGCTTTGGGATCATGGAGAAGGTTTATTGCCA
TTATTTTGTGAAGTTGGTGGAAAGGGCCCCCACCTCCACCTGAGCCACCAAAGACGGCAGTTGCCCATGCCAAAGA
GTATATTTCAGCAGCTTCGCAGCCGGACCATCGTTTCACACTCTATGATGAGGAGATTTCAGACTCCACAGTGTATAT
ATTTTGCCATTTATTTTCTAAAAATAAACAAAAATTGAAGGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1218

MAAAVLGQLGALWIHNLSRGKLALGVLPQSYIHTSASLDISRKWEKKNKIVYPPQLPGEPRRPAEIIYHCRRQIK
YSKDKMWYLAKLIRGMSIDQALAQLEFNDKKGAKIIKEVLLEAQDMAVRDHNVEFRSNLYIAESTSGRGQCLKRI
RYHGRGRFGIMEKVYCHYFVKLVEGPPPPPEPPKTAVAHAKKEYIQQLRSRTIVHTL

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FIGURE 1219

GATCCGCCACCATGGCTGAAGGAGAGAATGAAGTGAGATGGGATGGACTCTGCAGCAGAGATTCAACTACTAGGG
AGACAGCATTGGAAAACATTAGGCAAACCATTTTGAGGAAAACCGAGTATCTTCGTTCCGGTGAAAGAAACACCTC
ATCGTCCATCAGACGGGCTTTCAAATACCGAGTCTTCGGATGGGTTGAATAAGCTACTTGCTCATCTGCTTATGC
TTTCTAAGAGGTGTCCCTTCAAAGATGTGAGAGAGAAAAGTGAGTTTATTCTGAAGAGCATCCAGGAACTTGGCA
TTAGAATTCCTCGACCACTAGGACAGGGACCAAGCAGATTTCATCCAGAAAAGGAGATCCTCCAAGTGGGGAGTG
AAGACGCACAGATGCATGCTTTATTTGCAGATTCTTTTGCTGCTTTGGGCCGTTTGGATAACATTACGTTAGTGA
TGGTTTTCCACCCACAATATTTAGAAAGTTTCTTAAAACTCAGCACTATCTACTGCAAATGGATGGGCCGTTAC
CCCTACATTATCGTCACTACATTGGAATAATGGCTGCGGCAAGACATCAGTGCTCCTACTTAGTGAACCTGCATG
TAAATGATTTCCCTTCATGTTGGTGGGGACCCCAAGTGGCTCAATGGTTTAGAGAATGCTCCTCAAAAACCTACAGA
ATTTAGGAGAACTTAACAAAGTGTTAGCCCATAGACCTTGGCTTATTACCAAAGAACACATTGAGGGACTTTTAA
AAGCTGAAGAGCACAGCTGGTCCCTTGGCGAATTGGTACATGCAGTAGTTTTACTCACACACTATCATTCTCTTG
CCTCATTACATTCCGGCTGTGGAATCAGTCCAGAAATTCATTGTGATGGTGGCCACACATTGAGACCTCCTTCTG
TTAGCAACTACTGCATCTGTGACATTACAAATGGCAATCACAGTGTGGATGAGATGCCGGTCAACTCAGCAGAAA
ATGTTTCTGTAAGTGATTCTTTCTTTGAGGTTGAAGCCCTCATGGAAGAGATGAGGCAGTTACAGGAATGTCGAG
ATGAAGAAGAGGCAAGTCAGGAAGAGATGGCTTCACGTTTTGAAATAGAAAAAGAGAGAGTATGTTTGTCTTCT
CTTCAGATGATGAAGAAGTTACACCAGCAAGAGCTGTATCTCGTCATTTGAGGATACTAGTTATGGCTATAAAG
ATTTCTCTAGACATGGGATGCATGTTCCAACATTTCTGTGCCAGGACTATTGCTGGGAAGATCATGGTTATTCTT
TGGTAAATCGCCTTTATCCAGATGTGGGACAGTTGATTGATGAAAAATTTACATTGCTTACAATCTTACTTATA
ATACAATGGCAATGCACAAAGATGTTGATACCTCAATGCTTAGACGGGCAATTTGGAACATATTTACTGTCATGT
TTGGAATAAGATATGATGATTATGACTATGGTGAAATTAACCAGCTATTGGATCGTAGCTTTAAAGTTTATATCA
AAACTGTTGTTTGCACTCCTGAAAAGGTTACCAAAGAATGTATGATAGCTTCTGGAGGCAGTTCAAGCACTCTG
AGAAGGTTTATGTTAATCTGCTTCTTATAGAAGCTAGGATGCAAGCAGAACTCCTTTATGCTCTGAGAGCCATTA
CCCGCTATATGACCTGATGCTTTTCTTCATTAAAGATGATTCTGGAATGATCAGCAGATATAGTCTACAAGGGG
GAAGGTACTAAGCCCCAGGACCAATGGTAGACAAAATAATTCAGAAATCCATTGTGCCATGATTCCCTTTAGTTTC
TGCTATTTTTCTGTGGAAAACCACTGCTGGCACAAGCAGTGACTGTTTGGCAGCTTCAAGTTTAGAGCTGTGAAG
ACAGGCTGCCATTACAGTATTTTGCTTTTTTGACAGTACAAGATGCTGTGTAAGTGTTTAATACAGCAAATAGT
AACTCTCCAAATCCTGTTGCTTTTATGTTAAATAAGATAACAAGAATTGGAGCATGCAAAGAATGGGACTTGGAT
AATGACTTAAGCTTTATATGTAAAGAATTTTAGAAGATCTTGGTGCTGCTATTCTGCTGGAGGAATGAATAGAT
GGCTGTTTCAGTTAAGCTATTAGTAATAAAAGTGAACATTGCTACTATCTGAGCCTACATACATAACTTGTGTGA
TTTCAAATTAACTTGCATTATGTGTTAATTTTCTTGCTCTAAAAAGCATAGAATTCCTACTCACACAGCTCA
GCAACAACCATTTTGATGGTAACAGTTAATTTCTTTCATTAGTTTTTTAAATTCAGGGTTCTGGATATTAAATTA
AAATGGCATTCTTAAAGATTTTCTTCAAAAAGCAATCCTAAATGAAAGTGTGTAAATTATAAGAAGCTGGCGATC
TTTTGATATGCTGTTTACAGGATCCTGACACTGGAGGGCAGCTGTCTTGTGCATTACTTGTGTTCCCAGCACCA
AAGTTGTGGGACATGTTGCTGTAGACTGCTGCGCAGTCTGGGTGCATTGAGTCTCTCTGCCTCTGCCTGCCTCC
TGGTCCCCACTTTAAAGGCTGTGCAGCTCCTTAAATAATAAAGCTGGAAAATATTTTTAGTCGGGTATCAAATT
TGATTTACAAAACGCTAACTTTGTTTGAATGCAAACAGGTTTGAATATGTATTAAGTACTTTGTATTCTGG
AAGCGTGAATTGCTTTTGAAGTCTGTCAGTATTACTGGTATTTTTTAAATAAAGAAGAATTTTTCTCCAAAAAAA
AAAAAAA

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FIGURE 1220

MAEGENEVRWDGLCSRSTTRETALENIRQTI LRKTEYLRSVKETPHRPSDGLSNTESDGLNKLLAHLMLSKR
CPFKDVREKSEFILKSIQELGIRIPRPLGQGSPSRFIPEKEILQVGSEDAQMHALFADSFAALGRLDNITLVMVFH
PQYLESFLKTQHYYLLQMDGPLPLHYRHYIGIMAAARHQCSYLVNLHVNDFLHVG G DPKWLNGL ENAPQKLQNLGE
LNKVL AHRPWLITKEHIEGLLKAEHSWSLAELVHAVVLLTHYHSLASFTFGCGISPEIHCDGGHTFRPPSVSNY
CICDITNGNHSVD E M P V N S A E N V S V S D S F F E V E A L M E K M R Q L Q E C R D E E E A S Q E E M A S R F E I E K R E S M F V F S S D D
EEVTPARAVSRHFEDTSYGYKDFSRHGMHVPTFRVQDYCWEDHGYSLVNRLYPDVGQLIDEKFHIAYNLTYN TMA
MHKDVDT SMLRRAIWNYIHC MF G I R Y D D Y D Y G E I N Q L L D R S F K V Y I K T V V C T P E K V T K R M Y D S F W R Q F K H S E K V H
VNLL L I E A R M Q A E L L Y A L R A I T R Y M T

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FIGURE 1221

ATAGTTGACCAGCTTCTGCAGGGGCTCCTCAGTGAGAGAATGGAGGTGAGGTGAGGGACTCCTGCCTTGCCCTCTG
CCATCAGTTCCAGTGATGCTTATTCCTAAGATTGATCGTGTCTGTGCTGAAGATGTTTCCGGAACAACAGAAAG
AGGAATTTGTAAGTGTCTGGGTTTCGAGATCCTAGGATTGAGAAGGAGGACTTCTGGCATTCTTACATTGACTATG
AGATATGTATTCTACTAATAAGCATGTGTTTTACAATGAAAACATCCTGTGTACGAAGAAGATATAGAGAATTCTG
TGTGGCTGAGGCAGAGACTCCAAAGTAATGCGTTGCTGGTACAACCTGCCAGAACTTCCATCTAAAAACCTGTTTT
TCAACATGAACAATCGCCAGCACGTGGATCAGCGTCGCCAGGGTCTGGAAGATTTCTCAGAAAACTCTACAGA
ATGCACTTTTGTCTTCAGATAGCAGCCTTCACCTCTTCTTACAGAGCCATCTGAATTCAGAAGACATTGAGGCGT
GTGTTTCTGGGCAGACTAAGTACTCTGTGGAAGAAGCAATTCACAAGTTTGCCCTTAATGAATAGACGTTTCCCTG
AAGAAGATGAAGAAGGAAAAAAGAAAATGATATAGATTATGATTGAGAAAGTTTCATCCTCTGGGCTTGGACACA
GTAGTGATGACATCAGTTCACATGGATGTAAAGTAAATACAGCTCCGCAGGAATCCTGAAAAATAATTCTAATGT
TACTATCTTAGGAATAGCAAATTATGTCCAGTCATAGAGAAGAAAGCTTCATAATAATACATTCTTACCTAAAGC
TCACTGTGATGATGTTAGGTATTTAAATCTTAAAGATGTTGGGTTGTTTATTAGTGGTATTTTTATGTTGTCTT
ATTTTAGGTAAGCTTCTGTGTAAAGCTAAAAATCCTGTGAATACAATACTATCCTTACAGGCAGACATTATTGG
TAAACAAGATCTTGCCCTCCAATGAAATGACTTACATGTTTTAAAAAACCGAGTTGGTTTTATTGAATTTAAAA
GATAGGTAACTAAGTAGCATTTAAATCAAGATAGAGCATTCTTCTGTATCAGTGGGCGAGTGTACCATAAA
CACGGTGTATATGTTGTTAAACCCTATGAAGAGTAACAGTGTAGACCAGACTGCCTCTCTCAGATATGTGCCTGA
TATTTTGTGGATACCTCCCTGCACTGGCAAAACACTATGCTTTTGGGTGTAGACTGAAATATTTTAAAGAGTAT
TTAACCTTTCCAGTATTCTGTTTCACGCTTAGATGGAAATGTATCTTATGAATAGAGACATATTAATAATGTT
TACATCTTAGAAAAACATAGATAGTGCTAGTAATATTACTTATAACTGTAATATATAGATTGAGAAATACATTT
TCATTATCCAAATCAGCTTCAACAAATGGTTTTCTGGAGACAAATAATTTGTTTTTATTATCATTGTATAATCAG
GTTAATGATTTATTTTTTACTAAATGTGCAATTTCTTATCACTAGATAACTTTTCAATCAGTGGTGGTTACTT
ATTACTTAAATCAGAGGAAGGATTTTATAAAGATTAATAAATTTAATTTTACCAATAAATATTCCATAATTTAG
AAAAGGATGTGCACTTGCTAATTTTCAAGAAATAATTATTATTTTTTAAAAAGCCCCCTTTTAAAGCATCTACTTGAA
GATTGGTATAATTTTCAATAAATGTCTTTTTTTTTTAGTGTCCTCAAGATATCTTAGATAAACTATTTTGAAGTTC
AGATTTTCAATGAGGCAACATTTTCTTGAAGATAATTACCAAGTTTCATCCATGTTGAATGGTACAAAATATTTT
TGTGAACTAACAGGAAGATATTTTCAAGATAACTAGGATAACTTGTGCTTTGTTACCCAGCCTAATTGAAGAGT
GGCAGAGGCTACTACAAAAGCAACCTTTTCAATTTTCACTAAGAGTTTAAAGCTATTGTATTATTAAGAGTCT
TTACAATGCTTGTTCAAAGAACCAACAGAAAAAAGCTAAGAAAAGCTGAGAACTAACATTAAGAAAAATTAAT
TTAGAATAAGAATGATTTCTTTAATTTGTCTTTTTTCTTTGGTCTAAAACATTATTAAATTTTTGTAAATATT
TTGATTTAATGTGCTTAGATCCTCATTATTTAATACAGGAAAAGAAAAGATTTAGTAATTTCTTACCATGCTA
ATATGTAAAGTTTATGCCATCCAGGCATTTAAGAGCGATCCTCATCCCTTCAGCAATATGTATTTGAGTTTACAC
TATTTCTGTTTTACAGCAGTTTTGAAAAACACATACTATGCCACCAATTGTATATTATTTTATAGATGATGTAAC
ATAGCCATCAAAATTAATATTATGTAATGCCTAATACTTAGTATGTAAATGTCACGAGATCATTTTTTACATTAA
CGTGA

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FIGURE 1222

MFPEQQKEEFVSVVVRDPRIQKEDFWHSYIDYEICIHNTNSMCFTMKTSCVRRRYREFVWLRQRLQSNALLVQLPE
LP SKNLFFNMNQRHVDQRRQGLEDFLRKVLQNALLSDSSLHLFLQSHLNSIEDIEACVSGQTKYSVEEAIHKFA
LMNRRFP EEDEEGKKENDIDYDSESSSSGLGHSSDDISSHGCKVNTAPQES

[illegible]

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FIGURE 1223B

GGTGAAACCTCGTCTCTACTAAAAATACACAACCTTAGCCAGTCTTGTTGGCGCACGCCTGTAATCTCAGCTACTA
GGGACGCTGAGGCAGGAGAATCGCTTGAACCCAAGAGGTGGAGGTTGCGGTGAGCCAAGATTGCGCCACTGCACT
CCAGCCTGGGCAACAGAGGGAGACTCCATCGCCCCCCTCAACAACAAAAAAGTTTCCCATACTGGCCTGCC
CCAAAACCCACTAACAATTTTAGCAAAACAGTCCAGGCCAAAGAGGAAGCATTTTCATGTTCAATAAGAAACCCAG
CCATTCCGCATGGCTGGTTTCCTGAGTGGCTCTGGTGATACTCTCCAGCCACCTGCTGACATTCAGAATCTCAGAC
CTCGGGACTGCTGTTGCGGTACCGTGTGCTGACACCTGCCAGCAGCCCTTTGCTATCTGCGCGCAGGATGGGGG
TGACTGCCCAGACATTCCCGCTAGATAGGCTCTGATTTCCGGGGCAGCCTTTCAGATGCGGCAGACATACAACAC
CTGTACTTTAGAGTTTTAAGGGAAAAAAAATCAGAAGTGCTGGTTAGATAGTAAAAACTTAGGATAACTTAGAA
AGGCTAGTTTTAGCTTCCTTTGTGGCTCCCTGGTGCAAAACAATTAGCAGTTATGCAATGGACCTGATTCTAGTT
TATTCTAATTAAGAAGTGAGGCCGGGTTTGACTTCGTTCCCTGAATACAATCTTGAGTAACTGGGAAAGTCTGAGT
GAAAGGATGGCCTCATTCTCTTTCTAATCTTGCTGGTTTCAAGATTAGAAAATGGCATTATTTGATCTGAAATGT
TTGAGAAGACACGAATAAAG

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FIGURE 1224

MGAMGAAEPLHSVLWVKRRRCVLSLEPARALLRWRSPEPGPSAPGADARSVLVSEIIAVEEKDDCEKHASSGRW
HKMENPFAFTVHRVKRVRHHRWKWARVTFWSADEQLCHLWLQTLRGLLESLSRPHLLVFINPFGGKGQGKRIY
EKTVAFLFTLASITTEIIITEHANQAKETLYEINTDSYDGIVCVGGDGMFSEVLHGVIGRTQQSAGIDPNHPRAV
LVPSTLRIGIIPAGSTDCVCYSTVGTNDAETSALHIIIGDSLAI DVSSVHYHNTLLRYSVSLLGYGFYGDLIKDS
EKKRWMGLVRYDFSGLKTFLSHQYYEGTLSFLPAQHTVGSPRDNKPCRAGCFVCRQSKQQLLEEEKKALYGLENA
EEVEEWQVTCGKFLAINATNMSCACPRSPGGLSPFAHLGDGSSDLILIRKCSRFNFLRFLIRHTNQEDQFDFTFV
EVYRVKKFHFTSKHVEDEDNDSKEQEKQKFGKICKDRPSCTCSASRSSWNCDEVMHSPAIEVRVHCQLVRLFAR
GIEEES

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FIGURE 1225

CCGGCTGTCGGTCTCCGTGTCGCCGCCGCCGCCGGCATCGTGGAGCTGGGGCCCCCTTTTGCCTGGGAGTTTTG
TAGTCGCCTAGGGTCAGCGGTGACATCCCAAAGGGCAGGCCCGGCAGCCGCC**AT**GTGGCCAAGGATTACCCCTT
CTACCTCACGGTCAAGAGAGCGAACTGCAGCCTGGAGCTACCTCCGCCAGCGGTCCGGCCAAGGACGCTGAGGA
GCCTAGTAATAAACGGGTCAAACCCCTTTCCCGAGTCACGTCGCTAGCAAACCTCATCCCGCCCGTGAAGGCCAC
GCCATTAAAGCGCTTCAGTCAAACCCCTGCAGCGCTCCATTAGCTTCCGCAGTGAGAGCCGCCCTGACATCCTCGC
CCCCGACCCTGGTCCAGAAATGCCGCCCCCTCGAGCACGAAACGGAGAGATAGCAAGCTGTGGAGTGAGACCTT
CGATGTGTGCGTCAATCAGATGCTTACATCCAAGGAAATCAAACGTCAGGAGGCGATCTTTGAGCTTTCCCAAGG
AGAAGAAGACTTGATAGAAGACTTGAAATTAGCAAAAAGGCCATCATGACCCCATGCTGAAACTCTCCATAAT
GACAGAACAAGAGTTGAATCAAATTTTTGGAACACTGGACTCTCTAATTCTCTACATGAAGAGCTCCTTAGTCA
GCTTCGAGATGTTAGGAAGCCTGATGGCTCGACTGAACATGTTGGTCCCATCCTCGTGGGCTGGCTCCCTTGCTT
CAGCTCCTATGATAGCTACTGCAGCAATCAAGTAGCCGCCAAAGCTCTGCTGGACCACAAAAGCAAGATCACCG
AGTCCAGGATTTCTTACAGCGATGTTTAGAATCCCCCTTTAGCCGCAAACTAGATCTCTGGAATTTCTCGATAT
TCCAAGAAGCCGCTGGTAAAATACCCTCTGCTTCTCCGAGAAATCTTGAGGCACACACCAAAATGATAATCCAGA
TCAGCAGCACTTGGAAGAAGCTATAAATATCATTACAGGAATTGTGGCAGAAATCAACACCAAGACTGGTGAATC
TGAATGCCGCTATTATAAAGAGCGGCTTCTTTACTTGGAAGAAGGCCAGAAAGACTCCCTGATCGACAGCTCTCG
AGTCTTGTGTTGTCATGGTGAAGTGAAGAACAATCGGGGCGTGAACTGCATGTTTTCTGTTCCAAGAAGTGCT
TGTGATCACTCGAGCCGTCACCCACAATGAGCAGCTTTGCTACCAGCTGTACCGTCAGCCAATCCCCGTGAAAGA
CCTCCTGCTGGAAGACCTCCAGGATGGAGAAGTGAGGCTGGGTGGCTCCCTGCGAGGGGCATTACAGCAACAATGA
GAGAATTA AAAACTTCTTCAGAGTCAGTTTCAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGA
CACTTTCAACAAACAGCAGTGGCTTAACTGTATTTCGTCAAGCCAAAGAAACAGTTTTGTGTGCTGCCGGGCAAGC
TGGGGTGCTTGACTCCGAGGGATCGTTCTTAAATCCCACCACCGGGAGCAGAGAGCTACAGGGAGAAACAAAAC
TGAGCAGATGGACCAATCGGACAGTGAGTCAGACTGTAGTATGGACACGAGTGAGGTACAGCCTCGACTGTGAGCG
CATGGAACAGACAGACTCTTCCTGTGGAAACAGCAGGCACGGTGAAAGTAACGTCT**GA**CAGAAGCATGTGCACTT
CGGGAAGCAGGCCTGCATCTTACCTGTACAGTATTTCATTCCACAGATGGAACGGTTTGGAGAAGCACTTTTTC
ATACTTTTGTGAAAGTATACATGTTGGCCAGTCTCTCGTATCTGTACCTTTGTCCCTAGTACTGTAACCTGCCAA
TCTGTCTGTGTAAGCTGGAATCTGTGGCAACTATTACCCTGTGTTGTATTTCCCAAGTGCTCTGGATGGATGGAGA
GGTACTCAAACAAGTTACTTTAGTTGTCTGTGGATTTTAAAAAATAGAAAAAGAAATCTCAAAACTACTGTT
TTACATAGATTGTTTGAAGAGTCCTTCCTCTTGTGCTTCTGTACCCTTTCCAGCTCTTAGATGTGGTAGCTAA
AGGCACGGAATTTAGACGGCCTTGTAATAGGGCATGAGGAACCTCATCTGTGTATTGGGATGGTATTAGAGAGAG
AATCAGGAAAGACCAACTCATGAAGTGAAGTTGGTTTGATCTTACTCAACTAGAAAGCTTGAAAACATCCCTGGG
GATTCTGAAGGCTTAATTTTGCAAAGGAGGATGCATTGTCTGAACCTTTGCAACTTCATCCAGTGCAAGTTTGATG
CAAGAATGTATTAGGACATAAAATAGAGGCTGACCTTAAAGGGCCAGGACAGAAGCGGCTGCCAGCTCTGAATC
TTTAACTGAAATGCACATGGCACCAGGAGGTGTCTCTCATAGTTGGTTGCTAGCCTAAACATCAGAATAGAACC
CAAAGGGCTTAGGAAGGCCTGCCAGGATAACAAGAAGGCCCTGTATTATTGTGTTTCATCTGCCTAGGCCTACT
CATTATTTTAGAGAATGAATGAAGCAACAAGGAAGAGAGAACATGACTCTATCGATGACACTGTTTATAGAAACA
CAGGAGAGGAAGAATTTGGAATGAAAAGCACTTCGTGAGAACCTTCTGTGGGAGCCATTGAGAGAAAAGCATGGT
CCAGTGCCTTCTGAGAAAGGCCAGAGCTTTGGGCTTTCTGCTCTGCTTTTGGGTCGTCAATTTGCCATCTCTGG
TTCTGTGCTATAATCAGAATTGTAATTATGTTCTCCAGAGGCCAATTTCAATTAACCTCTGATTAATTAGAATCAGC
TAGCCAGATTAGTAACCTCTTTGTCCAGCCTTGATTTACAGTGCAGGGTAAAGTGACAGACCTTAAAAACAGCTAA
GTACCTAGAAGAGCTCCCTGCAAGTGTAATATTAAGGATGACCTGTGCAAAATTATACCCACACCAGCACTAGT
GGTAATTATTCTAAATTATTGCCAAAAAGTTTTTTTTTAATCTGTCTTTCAAGTTTACAGAAAAGAAAGCAGTAAA
TGCATTGATGTCATTTTATTATGTACATATATCATGTGCATTCAAGCTGTGTGACAAGATATATCAATATAAAAA
CAAGGTATATACTTTATTATTTTTTGAAAACAAGGATATTGTGATCAATTTTACCTGTAAAACATATTTCTGTA
TTTATAGGTCTTAAACATGATGAATTTTTTCTATTACAAGTTTATTTAAAACTGCTTTCTCAAGTCGTTATTGAT
ACAGCAAGTGAACCTGCTGCAGACAGAAGCAGAGGAAAGCCAAGAACAGCCTTTATTGGTGAAGAAAAGAATGAA
TGATCTTTGTAGGCGCCATCAGCCACTTTTAGAAGCCATCAGCCAGTGTGTTGGGAAAAGAGGTTTGTCAAGTG
TTGGCCTATGGGAAGGTGGTCAATGAATGTTTTGATGAAATGAATGTTTTGTATAATGGCCTTAACTTTTCTG
GAAGTATTTCAAATAAATTACATTATTAAGTCATCA

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FIGURE 1226

MVAKDYPFYLTIVKRANCSLELPPASGPAKDAEEPSNKRVKPLSRVTSLANLIPPVKATPLKRF SQT LQRSISFRS
ESRPDILAPRPWSRNAAPSSTKRRDSKLWSETFDVCVNQMLTSKEIKRQE AIFELS QGEEDLIEDLKLAKKAYHD
PMLKLSIMTEQELNQIFGTLD SLIPLHEELLSQLRDVRKPDGSTEHVGPILVGWLPCLSSYDSYCSNQVAAKALL
DHKKQDHRVQDFLQRCLESF SRKLDLWNFLDIPRSRLVKYPLLLREILRHTPNNDNPQQHLEEAINI IQGIVAE
INTKTGESECRYYKERLLYLEEGQKDSLIDSSRVLCCHGELKNNRGVKLHVFLFQEV LVITRAVTHNEQLCYQLY
RQPIPVKDLLLEDLQDGEVRLGGSLRGAFSNNERIKNFFRVSFKNQSQSQTHSLQANDTFNKQQWLNCIRQAKET
VLCAAGQAGVLDSEGSFLNPTTGSRELQGETKLEQMDQSDSESDCSMDTSEVSLDCERMEQTDSSCGNSRHGESN
V

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FIGURE 1227

AGAAGGGCAACCTCGTGCTTTCTGCAGAGGAGACCGGAGGGCAGAAGGCAGAGTCCAGGCTTAGACTGCAGTTCC
TCGCTTACCTGTGCAGTCTAATTTTGAGCTGCCTCTTTGTAGTCTTAAAAGGCAGGAGCTTCGTGTTGTGGGTCT
GCTAACCCGTACGTTTCCGTGGGCAAGTCGTGTGTACTCCTCGCCATGCTCAGCTCCAAACACGCTTCTACACT
GATAACAAGAAATATGCCGTAGATGATGTTCCCTTCTCAATCCCTGCTGCCTCTGAAATTGCCGACCTTAGTAAC
ATCAATAAACTACTAAAGGACAAAAATGAGTTCCACAAACATGTGGAGTTTGATTTCCTTATTAAGGGCCAG
TGCGAATGCCCTTGGACAAACACATGGAAGTGGAGAACATCTCATCAGAAGAAGTTGTGGAAATAGAATAC
CAGAAGTGTACCGCACCCAGCCAGAGCAATGCATGTTCCATGATGACTGGATCAGTTCAATTAAAGGGGCA
GAGGAATGGATCTTGACTGGTTCTTATGATAAGACTTCTCGGATCTGGTCCTTGGAGGAAAGTCAATAATGACA
GTGTGGGACATACGGATGTTGTAAAGATGTGGCCTGGGTGAAAAAGATAGTTTGTCTTGCTTATTATTGAGT
TCTATGGATCAGACTATTCTCTTATGGGAGTGGAAATGTAGAGAGAAACAAAGTGAAAGCCCTACACTGCTGT
GCTCATGCTGGAAGTGTAGATTCTATAGCTGTTGATGGCTCAGGAACATAAATTTTGAGTGGCTCCTGGGAT
ATGCTAAAGATCTGGTCTACAGTCCCTACAGATGAAGAAGATGAAATGGAGGAGTCCACAAATCGACCAAGA
ACAAACAGAAGACAGAACAGTTGGGACTAACAAGGACTCCCATAGTGACCCTCTCTGGCCACATGGAGGCAGTT
TCTCAGTTCTGTGGTCAGATGCTGAAGAAATCTGCAGTGCATCTTGGGACCATAACAATTAGAGTGTGGGATGTT
GGGTCTGGCAGTCTTAAGTCAACTTTGACAGGAAATAAAGTGTTTAAATTGTATTTCTATTCTCCACTTTGTAAA
CGTTTAGCATCTGGAAGCACAGATAGGCATATCAGACTGTGGGATCCCCGAACATAAGATGGTTCCTTGGTGTCG
CTGTCCCTAACGTCACATACTGGTTGGGTGACATCAGTAAATGGTCTCCTACCCATGAACAGCAGCTGATTTC
GGATCTTTAGATAACATTGTTAAGCTGTGGGATACAAGAAGTTGTAAGGCTCCTCTCTATGATCTGGCTGCTCAT
GAAGACAAAGTTCTGAGTGTAGACTGGACAGACACAGGGCTACTTCTGAGTGGAGGAGCAGACAATAAATTGTAT
TCCTACAGATATTCACCTACCACTTCCCATGTTGGGGCATGAAGTGAACAATAATTGACTATAGAGATTATTT
CTGTAAATGAAATTGGTAGAGAACCATGAAATTACATAGATGCAGATGCAGAAAGCAGCCTTTTGAAGTTTATAT
AATGTTTTACCCCTTCATAACAGCTAACGTATCACTTTTTCTTATTTGTATTTATAATAAGATAGGTTGTGTTT
ATGAAATACAACTGTGGCATACTCTCTATACAACTTGAAATTAACTGAGTTTTACATTTCTCTTT

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FIGURE 1228

MAQLQTRFYTDNKKYAVDDVPFSIPAASEIADLSNIINKLLKDKNEFHKKHVEFDFLIKGQFLRMPLDKHMEVENI
SSEEVVEIEYVEKCTAPQPEQCMFHDDWISSIKGAEEWILTGSYDKTSRIWSLEGKSIMTIVGHTDVVKDVAWVK
KDSLSCLLLSASMDQTILLWEWNVERNKV KALHCCRGHAGSVDSIAVDGSGTKFCSGSWDKMLKIWSTVPTDEED
EMEESTNRPRKKQKTEQLGLTRTPIVTTLSGHMEAVSSVLWSDAEEICSAWDHTIRVWDVGSGSLKSTLTGNKVF
NCISYSPLCKRLASGSTDRLHRLWDPRTKDGLVSLSLTSHTGWVTSVKWSPTHEQQQLISGSLDNIVKLWDTRSC
KAPLYDLAAHEDKVLSVDWTDTGLLSGGADNKLYSYRYSPTTSHVGA

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FIGURE 1229

TGCGCGTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGCGTGGCCGGCGCCGCTGTGGGGACAGCATGAGCGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCCTGGCGCTGCTGCTGCTCGGCCTCGGAC
TAGGCCTGGAGGCCGCGCGAGCCCGCTTTCCACCCCGACCTCTGCCAGGCCGCGAGGCCCCAGCTCAGGCTCGT
GCCCACCCACCAAGTTCCAGTGCCGCACCAAGTGGCTTATGCGTGCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCACCGCCCC
CTGGCCTCCCCTGCCCTGCACCGGCGTCAGTGACTGCTCTGGGGGAAGTACAAAGAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCTCTGTGCGGAATGCCACATCCTCCTCTGCCGAGACCAGTCTGGAAGCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCTCCTCCTTTTGTCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCCTGAGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCCTTGAGGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAACTGAGGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCTGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 1230

MSGGWMAQVGAWRTGALGLALLLLGLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFQCRTSGLCVPLTWRC
RDLDCSDGSDEEEECRIEPCCTQKGQCPPPPGLPCPCTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLTW
RCDGHPDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAVLSASLVATLLLLLSWLRAQERLRPLGLLVAMKESLLLSEQKTSLP

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FIGURE 1231

CGGAAGCAGGAAGTGAGTTTGC GAACGGAGCAGCTGCTGCAGGGCCCATGCGGACACCCAGTACATCCTGCCCA
ATGACATCGGCGTGTCTAGCCTGGACTGCCGTGAGGCCTTCCGCCTGCTGTCACCCACAGAGCGCCTCTATGCCT
ACCACCTGTCCCGTGCCGCCTGGTACGGAGGCCTGGCTGTGCTGCTTCAGACCTCCCCTGAGGCCCCCTACATCT
ATGCTCTGCTCAGCCGCCTCTTCCGCGCCCAGGACCCCCACCAGCTGCGCCAACATGCCCTGGCTGAAGGCCTTA
CCGAGGAGGAGTATCAGGCGTTCTTGGTCTATGCCGCGGGTGTCTTACTCCAACATGGGCAACTACAAGTCCTTTG
GTGACACCAAGTTTGTTCCTCAACTTGCCCAAGGAAAAGCTGGAACGGGTGATCCTAGGGAGTGAGGCTGCTCAGC
AGCACCCAGAAGAAGTCAGGGGCCTCTGGCAGACCTGCGGGGAGCTTATGTTCTCTCTGGAGCCAAGGCTTCGAC
ACCTCGGACTGGGGAAGGAGGGAATCACCACCTATTTCTCTGGGAATTGTACCATGGAAGATGCCAAATTGGCCC
AGGACTTTCTGGACTCACAGAACCTCAGTGCCTACAACACCCGGCTCTTCAAAGAGGTCGATGGAGAAGGGAAGC
CCTACTACGAGGTGCGGCTGGCTTCTGTGCTTGGCTCAGAGCCTTCCCTGGACTCTGAGGTGACTTCCAAGCTGA
AGAGCTATGAATTCCGGGGAAGCCCTTTCCAGGTGACCCGGGGGACTACGCGCCCATCCTCCAGAAGGTGGTGG
AGCAGCTGGAGAAAGCCAAGGCCTATGCAGCCAACAGCCACCAGGGGCAGATGCTGGCCAGTATATAGAGAGCT
TCACCCAGGGCTCCATCGAGGCCCCACAAGAGGGGCTCCCGCTTCTGGATCCAGGACAAAGGCCCCCATCGTGGAGA
GTTACATCGGGTTTATCGAGAGCTACCGCGACCCCTTTGGTTCCCGAGGAGAATTTGAAGGTTTCGTAGCTGTGG
TGAACAAGGCCATGAGTGCCAAGTTTGAGCGGCTGGTGGCGAGCGCAGAGCAGCTGCTGAAGGAGCTGCCCTGGC
CCCCAACCTTTGAGAAGGACAAGTTTCTCACCCCTGACTTCACCTCCCTGGATGTTTCTACCTTCGCTGGCTCCG
GCATCCCTGCCGGCATCAACATCCCCAACTACGATGATCTGAGGCAGACGGAAGGCTTTAAGAACGTGTCGCTGG
GGAATGTGCTGGCTGTGGCTACGCCACGCAGCGGGAGAAGCTTACCTTTCTGGAGGAGGATGACAAGGACCTGT
ACATCCTCTGGAAGGGGCCCTCCTTCGATGTGCAGGTGGGCCTGCACGAGCTGCTGGGCCATGGCAGTGGCAAGC
TCTTCGTACAGGACGAAAAAGGAGCATTCAACTTTGACCAGGAAACAGTGATCAACCCAGAGACGGGCGAGCAGA
TTCAGAGCTGGTATCGGAGCGGGGAGACCTGGGATAGCAAGTTCAGCACCATCGCCTCCAGCTACGAAGAGTGCC
GGGCTGAGAGCGTGGGTCTCTACCTCTGTCTCCACCCGCAAGTGCTGGAGATCTTTGGCTTTGAGGGGGCTGATG
CGGAGGACGTGATCTACGTGAAGTGGCTCAACATGGTTCGGGCGGGGCTGCTCGCTCTGGAGTTCTACACACCTG
AGGCCTTCAACTGGCGACAGGCCCATATGCAGGCCCGGTTTGTGATCCTGAGAGTCTTGCTGGAGGCTGGCGAGG
GACTCGTTACCATCACTCCCACCACAGGCTCCGATGGGCGCCCAGATGCCCGGGTCCGCCTCGACCGCAGCAAGA
TCCGGTCTGTGGGCAAGCCTGCTCTAGAGCGCTTCCCTGCGGAGACTTCAGGTGCTGAAGTCCACAGGGGATGTGG
CCGGAGGGCGGGCCCTGTACGAGGGGTATGCAACGGTCACTGATGCGCCCCCGAGTGCTTCCCTACCCCTCAGGG
ACACGGTGCTGCTGCGTAAGGAATCTCGGAAGCTCATTGTTTCAGCCCAACACTCGCCTTGAAGGCTCAGACGTGC
AGCTTCTGGAATACGAGGCGTCAGCTGCTGGCCTCATCCGATCCTTCTCTGAGCGTTTCCAGAGGATGGACCCG
AGTTGGAGGAGATCCTCACACAGCTGGCCACAGCCGATGCCCGATTCTGGAAGGGCCCCAGTGAGGCCCCATCTG
GCCAAGCTTAGAGGAAGATGTGTGGCCTTGCCCCCAATTCCATCAGACCAAGGCTGCAAGTGGCCCTCCATTCTGT
TGTGTATTTAGGGGCTGGGGAGGGGGAGGGGCAGGAGCTTGGACCTTGGTACTACCTCAGCTGAGGGTGGTGACA
CAACCCCTTCCATTTGTGACACTTTCCAGCCTGCCAATTGCTTCCCTCTGTGATCTCATTTTCATCTGCACTGC
CATACGTGGAGTGAGCAAGACAGGGCTTACCATCCTGTCTACCAGATGAGGAAATGGCAGTTCTGAGAAGTCACT
GGTCTAGATCCCGCAGGTGGCACGTGACAGCTAGGGTTCAAACGTTTCTACCAAATCCAATGCTCCTCACATAT
TAATTTTATAACCAGACAAATAAATATTAGAGACAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1232

MADTQYILPNDIGVSSLDCREAFRLLSPTERLYAYHLSRAAWYGGGLAVLLQTSPEAPYIYALLSRLFRAQDPDQL
RQHALAEGLTEEEYQAFVLVYAAGVYSNMGNYKSFGDTKFVPNLPKEKLERVILGSEAAQQHPPEVRGLWHTCGEL
MFSLEPRLRHLGLGKEGITYYFSGNCTMEDAKLAQDFLDSQNL SAYNTRLFKEVDGEGKPYEVR LASVLGSEPS
LDSEVTSKLSYEFGRSPFQVTRGDYAPILQKVVEQLEKAKAYAANSHQGQMLAQYIESFTQGSIEAHKGRSFRW
IQDKGPIVESYIGFIESYRDPFGSRGEFEGFVAVVNKAMSAKFERLVASAEQLLKELPWPPTFEKDKFLTPDFTS
LDVLT FAGSGIPAGINIPNYDDL RQTEGFKNVSLGNVLAVAYATQREKLT FLEEDDKDLYILWKGPSFDVQVGLH
ELLGHGSGKLFVQDEKGAFNFDQETVINPETGEQIQSWYRSGETWDSKFSTIASSYEECRAESVGLYLCLHPQVL
EIFGFEGADAEDVIYVNWLN MVRAGLLALEFYTPEAFNWRQAHMQARFVILRVLLEAGEGLVTITPTTGSDGRPD
ARVRLDRSKIRSVGKPALERFLRRLQVLKSTGDVAGGRALYEGYATVTDAPPECFLTTLRDTVLLRKESRKLIVQP
NTHLEGSDVQLLEYEASAAGLIRSFSEFPEDGPELEEILTQLATADARFWKGPSEAPSGQA

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FIGURE 1233

CTGATGAAAGTGCTTCCAAACTGAAAATTGGACGTGCCTTTACGATGGTAAGCGTTAACAGCTCCCACTGCTTCT
ATAATGACTCCTTTAAGTACACTTTGTATGGGTGCATGTTTACGATGGTGTGTTGTGCTTGGGTTAGTATCCAATT
GIGTTGCCATATACATTTTCATCTGCGTCCTCAAAGTCCGAAATGAAACTACAACCTTACATGATTAACTTGGCAA
TGTCAGACTTGCTTTTTGTGTTTTACTTTACCCCTCAGGATTTTTTACTTCACAACACGGAATTGGCCATTGGAG
AATTTACTTTGTAAGATTTCTGTGATGCTGTTTTATACCAACATGTACGGAAGCATTCTGTTCTTAACCTGTATTA
AGATCGATTTCTGGCAATTGTCTACCCATTTAAGTCAAAGACTCTAAGAACCAAAAGAAATGCAAAGATTG
GCACTGGCGTGTGGTTAACTGTGATCGGAGGAAGTGCACCCGCCGTTTTTGTTCAGTCTACCCACTCTCAGG
GTAACAATGCCTCAGAAGCCTGCTTTGAAAATTTTCCAGAAGCCACATGGAAAACATATCTCTCAAGGATTGTAA
TTTCATCGAAATAGTGGGATTTTTTATTCCCTCTAATTTTAAATGTAAGTTGTTCTAGTATGGTGCTAAAACTT
AAACAAACCAGTTACATTAAGTAGAAGCAAAATAAACAAAATAAGGTTTTAAAAATGATTTTTGTACATTGTA
AATTCTGTTTCTGTTTTGTTCCTTACAATATCAATCTTATTTTATATTCTCTTGAGAACACAAACATTG
AATTGCTCAGTAGTGGCAGCAGTAAGGACAATGTACCCAATCACTCTCTGTATTGCTGTTTCCAAGTGTGTT
TACCCCTATAGTTTACTACTTTACATCGGACACAATTCAGAATTCAATAAAAAATGAAAACTGGTCTGTCAGGA
AAGTGACTTCAGATTCTCTGAAGTTCATGGTGCAGAGAATTTTATTCAGCATAACCTACAGACCTTAAAAAGTA
AGATATTTGACAATGAATCTGCTGCCTGAAATAAAACCATTAGGACTCACTGGGACAGAACTTTCAAG

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FIGURE 1234

MVSVNSSHC FYNDSFKYTLYGCMFSMVFLGLVSNCAIYIFICVLKVRNETTTYMINLAMSDLLFVFTLPFRIF
YFTRNWPFGDLLCKISVMLFYTNMYGSILFLTCISVDRFLAIVYPFKSKTLRTKRNAKIVCTGVWLTVIGGSAP
AVFVQSTHSQGNNAEACFENFPEATWKTYLSRIVIFIEIVGFFIPLILNVCSSMVLKTLTKPVTLSRSKINKT
KVLKMIFVHLIIFCFCFVPYNINLILYSLVRTQTFVNCSVVAVRTMYPITLCIAVSNCCFDPIVYYFTSDTIQN
SIKMNWSVRRSDFRFSEVHGAENFIQHNLQTLKSKIFDNESAA

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FIGURE 1235

AGAAGGCCTCGCACAAAACACTGTACAAACCCGAAAGGAAGTCTGAGAGACGAACCGCCTTCCTCCCTGAAGCTT
CTAGAACTGGAGCAGAAAAGAAGGTGTGGCCCAGGGCCAGCCCCGCCTCCTCCCCGGGCGGAAGCTGTGTCAAGTTG
CCGGAAGTCGGCGTGAGGTGGGGCTTATGCGGCGGCGTGGTGAAATAGATATGCGCGACCGAGGGGGATGTGGAGC
TGGAGTTGGAGACTGAGACCAGTGGACCAGAGCGGCCTCCGGAGAAGCCACGGAAACATGACAGCGGTGCGGCGG
ACTTGGAGCGGGTCACCGACTATGCAGAGGAGAAGGAGATCCAGAGTTCCAATCTGGAGACGGCCATGTCTGTGA
TTGGAGACAGAAGGTCCCCGGGAGCAGAAAGCCAAACAGGAGCGGGAGAAAGAACTGGCAAAAGTCACTATCAAGA
AGGAAGATCTGGAGCTAATAATGACTGAGATGGAGATATCTCGAGCAGCAGCAGAAACGCAGTTTGCGGGAACACA
TGGGCAACGTGGTAGAGGCGCTTATTGCCCTAACCAACTGATGCGTGCTTTCTCAAATATACCTACTGGATTAAT
TTATGGCAATAAAATTTTTTTTTTGTCTTTTTTCAGTTTTATCATCTTGGGTCAAGTAGAGTGTATACTATATCCTA
TGTGTGGAGAATTTATATGTTGGAGACTAACTGAATTTAAGTGACCCATTAAATCTAGCACACCTGTATGAAA
AATCAGTGTAGAAGAATACCTCATGTGCAGATGCTAGGTGGCAGGCCAGTCTCATTCATCTGACTAGCTCTCAAC
AGTATTCAAGGTACATCTGGAGTCTCAGCAGAGTTACTGTACTCAAATGGCATGTGTCTCCAAGACAGCTTATGA
ATATCTAAAAGGCCAGCTACCTGCCTAGGAGCCACTATATATATAGATAGATGTAGGTTATGAACCCAGTTTATA
GGCCACCTTGAGTTAGAATTTTGGTACCTACAACATGCTTGATTTGAGTGATTAAAAAAAATAATTTGGCTGG
GTGCTGTGGCTCACGCCTCTAATCCCAGCACTTTGGGAGGTGAGGCAGGTAGATCACGAGGTGAGGAATTCAAG
ACCAGCCTGGCCAACATGTGAAACCCCGTCTCCACTGAAAATAGAAAAATTAGCTGGGCATGGTGGTGGGCGCCT
ATAATCCCAGCTATTCTGGAGGCTGAGGCAGGAATCGCTTGAAATTGGAAAGCAGAGGTTGCAGTGAGCTGAGAT
CACACTACTGTACTACTGTACTCCAGCCTGGGGGAAAGAGTGAACTCCATCTCAAAAAAAAAAAAAAAAAAAAA

1367/2682
FIGURE 1236

MATEGDVELELETETETSGPERPPEKPRKHDSGAADLERVTDYAEKEIQSSNLETAMSVIGDRRSREQKAKQEREK
ELAKVTIKKEDLELIMTEMEISRAAAERSLREHMGNVVEALIALTN

1368/2682
FIGURE 1237

ACCTCCGGAAACCGTAGATTCCGGGCGGTCGGAGCCGCCGGGAGCTGTAGTTCTCCCGCGGCTCAGAGAAGTAGG
CAGAGAGCGGACCTGGCGGCCGGGCAGCATGSCGGGGCTGGAGCTCTTGTCGGACCAGGGCTACCGGGTGGACGG
GCGGCGCGCCGGGGAGCTGCGCAAGATCCAGGCGCGGATGGGCGTGTTTCGCGCAGGCTGACGGCTCGGCCTACAT
TGAGCAGGGCAACACCAAGGCACTGGCTGTGGTCTACGGCCCCGACGAGATCCGGGGCTCCCGGGCTCGAGCCCT
GCCGGACAGGGCCCTAGTGAAGTGTCAATATAGTTTCAGCGACCTTCAGCACAGGTGAGCGCAAGCGACGGCCACA
TGGGGACCGTAAGTCCTGTGAGATGGGCCTGCAGCTCCGCCAGACTTTCGAAGCAGCCATCCTCACACAGCTGCA
CCCACGCTCCCAGATTGATATCTATGTGCAGGTGCTACAGGCAGATGGTGGGACCTATGCAGCTTGTTGTGAATGC
AGCCACGCTGGCAGTGCTGGATGCCGGGATACCCATGAGAGACTTGTGTGTGCGTGCTCAGCTGGCTTCGTGGA
CGGCACAGCCCTGGCGGACCTCAGCCATGTGGAGGAAGCAGCTGGTGGCCCCCAGCTGGCCCTGGCCCTGCTGCC
AGCCTCAGGACAGATTGCGCTGCTTGAGATGGATGCCCGGCTGCACGAGGACCACCTGGAGCGGGTGTGGAGGC
TGCTGCCCAGGCTGCCCCGAGATGTGCACACCCTCTTAGATCGAGTGGTCCGGCAGCATGTGCGTGAGGCCTCTAT
CTTGCTGGGGGACTTGACCACCCAGCCACCCATGTCCAGAATAAACCTCCTTGCCCACACXAAAAAAAAAA

1369/2682
FIGURE 1238

MAGLELLSDQGYRVDGRRAGELRKIQARMGVFAQADGSAYIEQGNTKALAVVYGPHEIRGSRARALPDRALVNCQ
YSSATFSTGERKRRPHGDRKSCMGLQLRQTFEAAILTQLHPRSQIDIYVQVLQADGGTYAACVNAATLAVLDAG
IPMRDFVCACSAGFVDGTALADLSHVEEAAGGPQLALALLPASGQIALLEMDARLHEDHLERVLEAAAQAARDVH
TLLDRVVRQHVREASILLGD

1370/2682
FIGURE 1239

TCSCTTTGTGATTCTTGATCCGGAACCTTGTACCCAGGAACCCCGGAAGAGGTAGCTCACGCGATAGAAACGTG
TTCGCTTGCCCGAGAAGAAGGGAAGGCGCGAGTGAGGAAAGGAGGTACTGTAGATGCCCTCCAAATCCTTGTTAT
GGAATATTTGGCTCATCCAGTACACTCGGCTTGGCTGTTGGAGTTGCTTGTGGCATGTGCCTGGGCTGGAGCCT
TCGAGTATGCTTTGGGATGCTCCCCAAAAGCAAGACGAGCAAGACACACAGATACTGAAAGTGAAGCAAGCAT
TGGGAGACAGCGGGGAGTACAAGATGATTCTTGTGGTTCGAAATGACTTAAAGATGGGAAAAGGGAAAGTGGC
TAGTGCTCTCATGCTGCTGTTTCAGCCTACAAGCAGATTCAAAGAAGAAATCCTGAAATGCTCAAACAATG
AATACTGTGGCCAGCCCAAGGTGGTGGTCAAAGCTCCTGATGAAGAAACCCTGATTGCATTATTGGCCCATGC
AAAAATGCTGGGACTGACTGTAAGTTTAATTCAAGATGCTGGACGTACTCAGATTGCACCAGGCTCTCAAACGT
TAGGGATTGGGCCAGGACCAGCAGACCTAATTGACAAAGTCACTGGTCACCTAAACCTTTACTAGGTGGACTT
ATGACAACAACCCCTCCATCACAAGTGTGTTGAAGCCTGTCAGATTCTAACAACAAAAGCTGAATTTCTTCA
ACTTAAATGTTCTTGAGATGAAAATAAACCTATTCCCATGTTCTAAAAAA

1371/2682
FIGURE 1240

MPSKSLVMEYLAHPSTLGLAVGVACGMCLGWSLRVCFGMPLPKSKTSKTHDTESEASILGDSGEYKMILVVRNDL
KMGKGKVAAQC SHAAVSAYKQIQRRNPEMLKQWEYCGQPKVVVKAPDEETLIALLAHAKMLGLTVSLIQDAGRTO
IAPGSQTVLGIGPGPADLIDKVTGHLKLY

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FIGURE 1241

GGCACGAGGCCAGGCGACTCCGGGACAGGGGGTCTCGGCCGTCGGCGTCATGGTTTTCGCGCGTGCAGCTCCCGCC
TGAGATCCAGCTGGCTCAGCGCCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAGGAAGCTCCGGAA
ATACATCGTCGCCAGGACTCAGCGGGCCGAGGTGGTTTTACGCACGACGAGCTGCTGAAGGTGTGGAAAGGACT
GTTTTATTGCATGTGGATGCAGGACAAGCCACTCCTCCAGGAAGAATTAGGAAGGACTATTTCCCAGCTCGTTCA
TGCTTTTCAGACCACGGAGGCGCAGCACCTGTTCCCTTCAGGCCTTCTGGCAGACCATGAATCGCGAGTGGACGGG
CATTGACAGGCTGCGCCTGGATAAATTCTACATGCTCATGCGGATGGTCTGAACGAGTCTTGAAGGTTCTGAA
GATGCAAGGCTGGGAAGAAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCTGCACCCCAGCAG
CCAGGCCCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCTGGAGGAGCTGACCAAAGTGGGCGCCGAGGA
GCTTACGGCAGACCAGAACCCTGAAGTTTCATCGACCCCTTCTGCAGAATCGCTGCCCCGGACCAAGGATTCTTTGGT
TTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCCGCTTGCCATTGAAGACCTCCTGAA
TGAAGTGGACACACAGGATGAGGAGGTGGCGTCGGACAGTGATGAGTCTCTGAGGGTGGTGAGCGTGGAGACGC
GCTGTCCCAGAAGAGGTCTGAGAAGCCGCCCGCAGGCTCCATCTGCAGGGCTGAACCTGAGGCTGGTGAGGAGCA
GGCAGGTGACGACAGGACAGTGGCGGGCCCCGTCTCCAGTTTGACTACGAGGCAGTTGCTAACAGACTGTTTGA
AATGGCCAGCCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAAGCTGCAGGACCT
GGCAGGAGGCATTTTCCCTGAAGATGAGATCCCAGAGAAGGCCCTGCAGGCGCCTGCTTGAAGGGAGGCGGCAGAA
GAAGACGAAGAAGCAGAAGCGTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAGGTGAGAAGGAGCCCCGAGCCC
GGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGTAGGGGCGGACCCCGAGGCGCGGGCAGAGGCTGGTGAGCA
GCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCAGGGGCGCTGGCCAGAGAGGGGCTCGCCAGAGAAG
GAGGACACCTCGGCCCCCTGACCAAGTGGCCGAGCAAAGGCGGCCAATGTCCAGGAGCCGGAGAAGAAGAAGAAACG
CAGGGAGTGAATGTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCCTCGCTTGACCGCGGGACGAGGCTG
ACCGGGCTGTTCTGTAGACTCAGGACCGTGGCTCCAGAACTCCTGTGCCAGGCGGGAGGGAAGGGCGGCACTGGA
GAGATGGGCCCCATCATTAGGGGCCAGCATCCCAGGAACTGGACCTTTCCCAGAGCCTCCGCCTGTGGCTGTGAT
GACCTTGGGCCAGAAGGTCAAACCTCCGAAGACTGAAACTCTGCCTGCAGCAGGACTGGCTGCCCTGCTGTGGGG
GGTTCAGAAAATAAAATGCCGCGCAGCCCTTGCCAGGGGAAGTGTGCTTCCGGTGTGTCTACGGACGTGTGGGA
GGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTATATTTCATGTTTGTGGAAAAATCTTGCAAGACATTTCT
CCTTTACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCCCTCAATCTGGGGTC
TAGAGTTGTGCAGGGAATTCAGCTCCAGTAAGGCCTGGATTGCCCCGGGTGAGCGTGTGTGTGGTGGGAAGACCT
GGCTTCCGCGAGAGCCTTGTTCTGGAGGCAGGAGCGCCCCGCCATCCTGGGTACCCGCGGGTCCGCGAGGCTGCG
CACCTCTTTCCCTCAGCCAGGTACCCCTCAGCGTCTCCCTGCCCCCTCTCCCCTTACACCTGCTGGAGCCTGTG
AGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCAGGGCTTTCTACCTGCATGGAACAAG
GGCCTGTCTGCCGCCAGCGCTGTGGCCACAGCCTGCATAGGTGACAAGGGGCCGCTGCGTTGGGTTTTGCCCGCA
TCTTCTGTTCCATGGGTGCCAGCCAGCCAGGCCGTGTGGGATCCAGCGAGAGGCCAGGGCTTGAGTGGGCCTG
GGACCAGGAAGGACCTCTAGGCTGTGGCTGGCCTTGTGCAGACCCTGGACTGCATCCGGTTCCCCAAAGCCCTGC
TGCATTGAGTGTCCCCAACCCTGGGCGAGGTGGCACCTGGTGACACCTCCTTCAGTCCCACTCAGCTGGGCGGC
CGGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCCTGTTCTAGGGGTTAGGGTTCT
TTCCCCAAAGGAACTTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAG
GCCGAGGTGGCCAGATCACCTGAGGTGAGGAGTTTGGAGACCAGACTGACCAACATGGAGAAACCCATCTCTACT
AAAATACAAAATTAGCCAGGCGTGGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATT
GCTTGAACCTGGGAGGCAGAGGTTGTGGTGAGCTAAGATCACGCCATTGCACTCCAGCCTGGGCAACGAGAGGGA
AACTCTGTTTCAAAAAAAAAAAAAAAAAAAAAA

1373/2682
FIGURE 1242

MVSRVQLPPEIQLAQRLAGNEQVTRDRAVRKLRKYIVARTQRAAGGFTHDELLKVWKGLFYCMWMQDKPLLQEEL
GRTISQLVHAFQTTEAQHLFLQAFWQTMNREWTGIDRLRLDKFYMLMRMVLNESLKVLMQGWEEERQIEELLELL
MTEILHPSSQAPNGVKSHFIEIFLEELTKVGAEELTADQNLKFIDPFCRIAARTKDSLVLNNITRGIFETIVEQA
PLAIEDLLNELDTQDEEVASDSDESSEGGGERGDALSQKRSEKPPAGSICRAEPEAGEEQAGDDRDSSGGPVLQFDY
EAVANRLFEMASRQSTPSQNRKRLYKVIRKLQDLAGGIFPEDEIPEKACRRLLEGRRQKKTKKQKRLRLQQERG
KGEKEPPSPGMERKRSRRRGVGADPEARAEAGEQPGTAERALLRDQPRGRGQRGARQRRRTPRPLTSARAKAANV
QEPEKKKKRRE

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FIGURE 1243

GGCGCTCGCAGAGCCGGAAGAAGTGCTGTAAGGGACGCTCGGGGGACGCTGTTTCCTGAGGTGTCGCCGCCCTCCC
TGTCTCGCCCTCCGCGGTGGGGGAGAAACCCAGGAGCGAAGCCCAGAGCCCGCGGCGCGGCCGGCGGACGAACG
AGCGCGCAGCAGCCGGTGCGCGGCCGCGGCGAGGGCGGGGGAAGAAAAACACCCTGTTTCCTCTCCGGCCCCCAC
CGCGGATCATGTACCAGGATTATCCCGGGAACTTTGACACCTCGTCCCGGGGCAGCAGCGGCTCTCCTGCGCACG
CCGAGTCTTACTCCAGCGGCGGCGGCGGCCAGCAGAAATTCCGGGTAGATATGCCTGGCTCAGGCAGTGCAATCA
TCCCCACCATCAACGCCATCAGCACCAGCCAGGACCTGCAGTGGATGGTGCAGCCACAGTGATCACCTCCATGT
CCAACCCATACCCTCGCTCGCACCCCTACAGCCCCCTGCCGGGCTGGCCTCTGTCCCTGGACACATGGCCCTCC
CAAGACCTGGCGTGATCAAGACCATTGGCACCACCGTGGGCCGAGGAGGAGAGATGAGCAGCTGTCTCCTGAAG
AGGAGGAGAAGCGTCGCATCCGGCGGGAGAGGAACAAGCTGGCTGCAGCCAAGTGCCGGAACCGACGCCGGGAGC
TGACAGAGAAGCTGCAGGCGGAGACAGAGGAGCTGGAGGAGGAGAAGTCAGGCCTGCAGAAGGAGATTGCTGAGC
TGCAGAAGGAGAAGGAGAAGCTGGAGTTTCATGTTGGTGGCTCACGGCCCAGTGTCGAAGATTAGCCCCGAGGAGC
GCCGATCGCCCCCAGCCCCCTGGGCTGCAGCCCATGCGCAGTGGGGGTGGCTCGGTGGGCGCTGTAGTGGTGAAAC
AGGAGCCCCCTGGAAGAGGACAGCCCCCTCGTCTCGTTCGCGGGGCTGGACAAGGCCCAGCGCTCTGTATCAAGC
CCATCAGCATTGCTGGGGGCTTCTACGGTGAGGAGCCCTGCACACCCCCATCGTGGTGACCTCCACACCTGCTG
TCACTCCGGGCACCTCGAACCTCGTCTTACCTATCCTAGCGTCTGGAGCAGGAGTCACCCGCATCTCCCTCCG
AATCCTGCTCCAAGGCTCACCGCAGAAGCAGTAGCAGCGGGGACCAATCATCAGACTCCTTGAACCTCCCCACTC
TGCTGGCTCTGTAAACCCAGTGACCTCCCTCCCCAGCTCCGGAGGGGGTCCCTCCTCGCTCCTCCTTCCCAGGGAC
CAGCACCTTCAAGCGCTCCAGGGCCGTGAGGGCAAGAGGGGGACCTGCCACCAGGGAGCTTCCTGGCTCTGGGGG
ACCCAGGTGGGACTTAGCAGTGAGTATTGGAAGACTTGGGTTGATCTCTTAGAAGCCATGGGACCTCCTCCCTCA
TTCATCTTGCAAGCAAATCCCATTCTTGAAAAGCCTTGGAGAACTCGGTTTGGTAGACTTGGACATCTCTCTGG
CTTCTGAAGAGCCTGAAGCTGGCCTGGACCATTCCCTGTCCCTTTGTTACCATACTGTCTCTGGAGTGATGGTGTC
CTTCCCTGCCCCACCACGCATGCTCAGTGCCCTTTTGGTTTACCTTCCCTCGACTTGACCCTTTCTCCCCCAGC
GTCAGTTTCACTCCCTCTTGGTTTTTATCAAATTTGCCATGACATTCATCTGGGTGGTCTGAATATTAAAGCTC
TTCATTTCTGGA

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FIGURE 1244

MYQDYPGNFDTSSRGSSGSPAHAESYSSGGGGQQKFRVDMPGSGSAFIPTINAITTSQDLQWMVQPTVITSM SNP
YPRSHPYSPPLGLASVPGHMALPRPGVIKTIGTTVGRRRRDEQLSPREEKRRIRRRERNKLAAAKCRNRRRELTE
KLQAETEELEEEKSGLQKEIAELQKEKEKLEFMLVAHGPVCKISPEERRSPAPGLQPMRSGGGSVGAVVVKQEP
I EEDSPSSSSAGLDKAQRSVIKPI SIAGGFYGEEPLHTPIVVTSTPAVTPGTSLNVFTYPSVLEQESPASPSESC
A :RRSSSSGDQSSDSLNSPTLLAL

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FIGURE 1245

AATTATATATTTTTACTCTATGTTTCTCTACATGTTTTTTCTTTCCGTTGCTGGCGGAAGAGGCACGTGCGCTG
CTGAATGGAGCTGGTCGCTGGTTGCTACGAGCAGGTCCTCTTTGGGTTTCGCTGTACACCCGGAGCCCAAGGCTTG
CGGCGACCACGAGCAATGGACTCTTGTGGCTGACTTCACTCACCATGCTCACACTGCCTCCTTGTGTCAGCAGTAGC
TGTAATAGTCGTTTTGTGGTCACTGGGAGCAAAGATGAAACAATTCACATTTATGACATGAAAAAGAAGATTGA
GCATGGGGCTCTAGTGCATCACAGTGGTACAATAACTTGCCTGAAATTCTATGGCAACAGGCATTTAATCAGTGG
AGCGGAAGATGGACTCATCTGTATCTGGGATGCAAAGAAATGGGAATGCCTGAAGTCAATTAAAGCTCACAAAGG
ACAGGTGACCTTCCTTTCTATTACCCATCTGGCAAGTTGGCCCTGTGCGTTGGTACAGATAAAACTTTAAGAAC
GTGGAATCTTGTAGAAGGAAGATCAGCATTCTATAAAAAATATAAAACAAAATGCTCACATAGTAGAATGGTCCCC
AAGAGGAGAGCAGTATGTAGTTATCATACAGAATAAAATAGACATCTATCAGCTTGACACTGCATCCATTAGTGG
CACCATCACAAATGAAAAGAGAATTTCTCTGTAAATTTCTTTTCAGAGTCTGTCTTGCAGTGGCTGGAGATGA
AGAAGTTATAAGGTTTTTGTACTGTGATTCACTAGTGTGCCTCTGCGAATTTAAAGCTCATGAAAACAGGGTAAA
GGACATGTTTCAGTTTGAATTCAGAGCATCATGTTATTGTTTCAGCATCGAGTGATGGTTTCATCAAAATGTG
GAAGCTTAAGCAGGATAAGAAAGTTCCCCATCTTTACTCTGTGAAATAAACACTAATGCCAGGCTGACGTGTCT
TGGAGTGTGGCTAGACAAAGTGGCAGACATGAAAAGCCTTCCTCCAGCTGCAGAGCCTTCTCCTGTAAGTAAAGA
ACAGTCCAAAATTGGCAAAAAGGAGCCTGGTGACACAGTGCACAAAGAAGAAAAGCGGTCAAAACCTAACACAAA
GAAACGCGGTTTAAACAGGTGACAGTAAGAAAGCAACAAAAGAAAGTGGCCTGATATCAACCAAGAAGAGGAAAT
GGTAGAAATGTTGGAAAAGAAGAGGAAAAAGAAGAAAATAAAAAACAATGCAGTGAATCACAGATGTCTCCTGAAA
GAACTCTTTTAGATGAAATCATTCTACTCAAATGTACCTTAATTTTTTTTTTCCCTGAGTAAAAGCAAGAAATT
TCTTCCTTTGGAAAAATATATATATATATAAAAAACCCTTTTAGATGGTTTTTTTTTAAAAAATAAAAAAACTGG
TAAATTAATTTTGGCAGACAGTGTATGAATTATGTATCATGTTGATATATAATATGTTAATGTGTCATGTA
ATTTTACTTTGTACAAAGCAAATAAAGATCTTTCTCAAAAAAAAAAAAAAAAAA

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FIGURE 1246

MELVAGCYEQVLFQFAVHPEPKACGDHEQWTLVADFTTHAHTASLSAVAVNSRFVVTGSKDETIHIYDMKKKIEH
GALVHHSGTITCLKFYGNRHLSGAEDGLICIWDAKKWECLKSIKAHKGQVTFLSIHPSGKLALSVGTDKTLRTW
NLVEGRSAFIKNIKQNAHIVEWSPRGEQYVVIIQNKIDIDYQLDTASISGTITNEKRISSVKFLSESVLAVAGDEE
VIRFFDCDSLVLCLCEFKAHENRVKDMFSFEIPEHHVIVSASSDGFIMWKLKQDKKVPPSLLCEINTNARLTCLG
VWLDKVADMKSLPPAAEPSPVSKEQSKIGKKEPGDTVHKEEKRSKPNTKKRGLTGDSKKATKESGLISTKKRKMV
EMLEKKRKKKKIKTMQ

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FIGURE 1247

AGCAGGTTTCGAATGCTCTTTACTTCCTTTGTGGAGCAAAAGAAAAAGCAGGAGTATTTGAACAAATCACTAAG
ACTCATGGAACAATTATTGGCATTACTTCAGGGATTGTCTTGGTCCTTCTCATTATTTCTATTTTAGTACAAGTG
AAACAGCCTCGAAAAAGGTCATGGCTTGCAAAACCGCTTTTAATAAAACCGGGTTCCAAGAAGTGTGATCCT
CCTCATTATGAAGTGTTCCTACTAAGGGACAAAGAGATTTCTGCAGACCTGGCAGACTTGTGCGAAGAATTGGAC
AACTACCAGAGGATGCGGCGCTCCTCCACCGCCTCCCGCTGCATCCACGACCACCCTGTGGGTGCGAGGCCTCC
AGCGTCAAACAAAGCAGGACCAACCTCAGTTCCATGGAGCTTCTCTCCGAAATGACTTTGCACAACCACAGCCA
ATGAAAACATTTAATAGCACCTTCAAGAAAAGTAGTTACACTTTCAAACAGGGACATGAGTGCCCTGAGCAGGCC
CTGGAAGACCGAGTAATGGAGGAGATTCCCTGTGAAATTTATGTGAGGGGGCGAGAAGATTCTGCACAAGCATCC
ATATCCATTGACTTCTAATCTTCTGCTAATGGTGATGTGAATTTCTTAGGGTGTGTACGTACGCAGCCTCCAGGGC
ACCATACTGTTCCAGCAGCCAACCCTTTTCTCCCATCACAACCTACGAAGACCTTGATTTACCGTTAACCTATTG
TATGGTGATGTTTTATTCTCTCAGGCAGTCTATATATGTTAAACCAATCAAGGAACCTTACTCTATTTCAGTGGA
ACAATAATCATCTCTATTGCTTGGTGTCAATTTATAGGAAGCACTGCCAGTTAAAGAGCATTAGAAGAGGTGGTTG
GATGGAGCCAGGCTCAGGCTGCCTCTTCGTTTTAGCAACAAGAAGACTGCTCTTGACTGATAACAGCTCTGTCAA
TATTTTGATGCCACAATAAACTTGATTTTCTTTACATTCCCTTTTATTTTCTTTCTCTAAATTTAATTTGTTT
TATAAGCCTATCGTTTTACCATTTCAATTTCTTACATAAGTACAAGTGGTTAATGTACCACATACTTCAGTATAG
GCATTTGTTCTTGAGTGTGTCAAAATACAGCTAGTTACTGTGCCAATTAAGACCCAGTTGTATTTTACCCATCTG
TTTCTTCTTGGCTAATCTCTGTACTTCTGCCTTTTAATTACTGGGCCCTTATTCCTTATTTTCTGTGAGAAATAA
TAGATGATATGATTTATTACCTTTCAATTATATTTTCTCAGTTATACTAGAAAATTTTATAATCCTGGGATATA
TGTACCATTGTCAGCTATGACTAAAAATTTGAAAAAGATAAAAATTTCTAGCAAGCCTTTGAAGTTTACCAAGTA
TAGTCACATTTCAGTGACAGCCCATTTCATCCAGTAAAGAATCATTTCATTCACTTTGGGAGAGGCCTATAATTAC
ATTTATTTGCAATGTTTCTTCTCGCTAGATTGTTACATAGCTCCCATCTGTTGGTTTTGCTTACAGCATATGGT
AACCAAGGTTAGATGCCAGTTAAAAATTCCTTAGAAATTGGATGAGCCTTGAGATTGCTTCTTAACTGGGACATGA
CATTTTTCTAGCTCTTATCAAGAATAACAACCTTCCACTTTTTTTTAACTGCACTTTGGACTTTTTTATGGTAT
AAAAACAATAATTTATAAACATAAAAGCTCATTGTGTTTTTTAGACTTTTGATATTATTTGATACTGTACAACT
TTATTAAATCAAGATGAAAGACCTACAGGACAGATTCTTTTCAGTGTTTACATCAGTGGCTTTGTATGCAAATAT
GCTGTGTTGGACCTGGACGCTATAACTTATTGTAAAGACCTTGAAATGTGGACATAAGCTCTTCTTTCTTTT
GTTACTGTATTTAGTTTGTGATAAATTTTTCTGTTGTGATATTTATGCTCTAAATCACTACACAAATCCCATAT
TAAATATACATTGTACCTGACCTTTAATCATGTTATTTATGCCACCAAGGTGTGGATCTTAAGGTATGTATG
GAAAGGAACCTCATTTATCAAATTGTAAGTAATACAGACATGCCATTTAAAGAGGTAAATTTCTTGTTTTCTATAT
TTTGTTAGTAAATCTCAATGAAATAAGTTGAAGTTTCACTGGATTTCAATTAATTTAAATATTACATATATGT
GTTTCTCAGATTAGTGAAATTGTGACCTTAAATTTAATACATATACTGCCTCAG

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FIGURE 1248

MLFTSFVEQKKKAGVFEQITKTHGTIIGITSGIVLVLLIISILVQVKQPRKKVMACKTAFNKTGFQEVFDPPhYE
LFSLRDKEISADLADLSEELDNYQRMRRSSTASRCIHDHHCQSQASSVKQSRTNLSSMELPLRNDFAQPQPMKTF
NSTFKKSSYTFKQGHECPEQALEDRVMEEIPCEIYVRGREDQAQASISIDF

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FIGURE 1249

AAACCCAAAGCGGCCGCCGTAGGCGAAGGTGAAGATGGCTGCCTCTGCCTTTGCTGGTGCAGTGAGAGCAGCTTC
AGGAATCCTACGGCCCCCTGAATATTTTGGCATCTTCAACCTACCGCAACTGTGTCAAGAATGCCTCTCTTATTTT
TGCATTGTCCACTGGACGTTTTAGTCATATTCAGACACCAGTTGTTTCTCCACTCCCAGACTTACCACATCTGA
GAGAAACCTGACATGTGGGCATACCTCAGTGATCCTTAATAGAATGGCCCCGTGCTTCCAAGTGCCTGAAGCT
GCCAGTCAGATCTCTAACATACTTCAGTGCAAGAAAAGGCAAGAGAAAGACCGTGAAAGCTGTCATCGATAGGTT
TCTTCGACTTCATTGTGGCCTTTGGGTGAGGAGAAAGGCTGGCTATAAGAAAAAATTATGGAAAAAGACACCTGC
AAGGAAGAAGCGATTGAGGGAATTTGTATTCTGCAATAAAACCCAGAGTAAACTCTTAGATAAAATGACGACGTC
CTTCTGGAAGAGGCGAAACTGGTACGTTGATGATCCTTATCAGAAGTATCATGATCGAACAAACCTGAAAGTATA
GATCAGAAGTTTCACTTGTTTCTCAGTTATTGGATATGTAICTTTGTGTACATATCTTTGCAAAAATGGATAAGT
ACAAAACCTTGATGTAAATTGTACCAATGAATACGTAAACATACAGTGACAAACATTAAACTTAGAAAAAGTTTTAAA
ACTTAATGGATCAGACTTTGCCAGATTTGGTTAGGGAAACAGAAATTTAGAATGGTGCATTATTTTTAACAAATG
GTATTGGCTTAACTAGTTGTTTCTCAGTTATGCTCTTTTAGTTGCAAGGAATCTCAAGTGGGACAAACATAAAAAGA
CTCAAAAGCTACAAGTTAGCTCAAGCAATGTGACATTATTTCAAGGATATGTGCCAGGGAATTCAGGAACCACCT
CACCAACCCCATCTCCCACTCAGAAATCACCTCCCAGCCTCAGGAAGAGTAGAAATTGGGTGGTGCTCCTCAGCA
GGGGAAGGTGGATGTTTAGGCTTGGGCTCTGCATGCATGTGACTTGCTTCTTTTGCATTGTTAACTCCATTCTC
TCTATTACCAACTTCTCTACACAGCTTTTGCATACTTACAGTTTCTGTTCTTTTGTAACTTTAACTTGCAC
CTTTGAGGTTCTTTTCTACATGATGACCTTCAGCTCCTGCTGCTAGTCTCCAATTGCCAAGGGAATTTAACTGGG
CCAGACTACCTTTTATACTAGGTCTGGTTGGGTCAATTGTCTAGAGTAGGGATTGGCTGTCTTAAGTCAGGAGC
CCGCTTTGTATTAGCAGGTTTGCATGCAGCAAAAAACAGTTATGTGAGCAGTTTCACTTGGAGGTTACATGGG
GTGGCAGCACACTTAACATCTAACACACCAGGTTCAATTGTGTTTATAACACTTGTCACTTTACTGTAACAACATTT
TTTCATAGGAGAGTAAATAGCCCTTCAGCATGCTCATTATCATGAAACAGAAGAGGCTGTACAAGTGAAGACAAGGG
CTTTTTATGCAAGTTTGTAAAGATAGGTATTTATTTTTCTAGAGACAGGAGTTTGTCTGTGTGCCAGGCTGG
AGTGCAGTGGTGCAATCATAGCTCATTGAAGCCTCGCACTCCTGGGCTCAAGTGGTCTCTGCTCCTCAGCTTACT
GAGTAAGGATATGATTTTCTTAAAGTTAGTTTATCCACTTCAGATTTTATGTTTTTCACTTGTAAAGGATAAACTT
TTCCCACAAATTTTCAACAATCATTGTAGAACTAAGGGGGAGAAAGTAATCTCAGTTGTTTTAGAAACGAAAAA
GTTAAGCATTGTTTACTTGAAGTGGGCAGGGAGGCAGCACTGAGTAAAGTTCAATTGAGTGGTTACAGTCTAGGG
CAGTGGTTCCCAACTCTCCGATCAGAATCATCTGGGAAGCATTTTCAAACAGCAAAGTACTTTGAAAACCATTTAT
TAAATAGAATTATGCATGAATTACTGTTTCAGATCCTTTAATGTGGTAGTTGGTAATAATAAGATGAAATTCCTC
TGTTGTTAGTAAAATTATGAAATTGAAGTTCTGCAGCATGTCAGGCCAGGATTATTAGGGAGATTCTCGAAACT
AGTGTGTGTTTTATTAAGGAGAAAGGATAACAATAGAATGTTCTAAAACAGAAAGTCCAAGTGCCTGCTACTT
ATGGGACCAATAAATAAAGAACAGACATTTGATTTGAGGTGAGGTAAAAGCCTGAAACATGGAATGGCATTCTGT
TTTGATGGATTTTCACTTCTTCGCATCTCTGAGACGGCAAAGCCAACCACTTAGAAGCCTTCCACATCTTTGTCA
CCTGCCTGGCTCCTGCTCTCTGATGTACCTCTGGGTAGTGAGATGGAATGGTGCCTGCAGAAAGTTGGGGAGAAG
GATACTTTTGCACAGCCTCCATGATGTCTTTATTGCAAATATGGATGACAAGGGTCTCTGTTACAGGGGCCCTCAG
AGCACCTTCGTTTCTCTCTAGACCAGGGACAGGTGTAGAGATAAGGACTGGCAACCAGAGCCTCAGCATCCAAA
GATGGACTGAAGTGGGATGGCTGACAGGCACATAACTTACGGGAAAGGGAATTTATACATACGATTTTTGTTTT
GTGGGTAGGAGGGCTTATCATCAACACTGATTTTATAATCTGACAATAAATGTCTTTCATTAAAGAGTTTACCTA
AATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1250

MAASAFAGAVRAASGILRPLNILASSTYRNCVKNASLISALSTGRFSHIQTPVVSSTPRLTTSE
RNLTCGHTSVI
LNRMAPVLPVSVLKLPVRSITYFSARKGKRKTVKAVIDRFLRLHCGLWVRRKAGYKKKLWKKTPARKKRLREFVFC
NKTQSKLLDKMTTSFWKRRN

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FIGURE 1251

GGCAACGAGGGGCTGCCTCTGGGGGGTCCGCTAGTCGCGGGGCGGCGGGCGGGCTGCGGGCGCGAGGTTCCCAG
CAGGATGCCCCGGCTCTGCAGGAAGCTGAAGTGAGAGGCCCGGAGAGGGCCCCAGCCCGCCGGGGCAGGATGACC
AAGGCCCCGGCTGTTCGGGCTGTGGCTGGTGCTGGGGTCGGTGTTTCATGATCCTGCTGATCATCGTGTACTGGGAC
AGCGCAGGCGCCGCGCACTTCTACTTGCACACGTCTTCTCTAGGCCGCACACGGGGCCGCCGCTGCCCACGCC
GGCCCGGACAGGGACAGGGAGCTCACGGCCGACTCCGATGTGACGAGTTTCTGGACAAGTTTCTCAGTGCTGGC
GTGAAGCAGAGCGACCTTCCCAGAAAGGAGACGGAGCAGCCGCTGCGCCGGGGAGCATGGAGGAGAGCGTGAGA
GGCTACGACTGGTCCCCGCGGACGCCCGGCGCAGCCCAGACCAGGGCCGGCAGCAGGCGGAGCGGAGGAGCGTG
CTGCGGGGCTTCTGCGCCAACTCCAGCCTGGCCTTCCCCACCAAGGAGCGCGCATTGACGACATCCCCAACTCG
GAGCTGAGCCACCTGATCGTGACGACCGGCACGGGGCCATCTACTGCTACGTGCCCAAGGTGGCCTGCACCAAC
TGGAAGCGCGTGATGATCGTGACGCGGAAGCCTGCTGCACCGCGGTGCGCCCTACCGCGACCCGCTGCGCATC
CCGCGCGAGCAGTGACACAACGCCAGCGCGCACCTGACCTTCAACAAGTTCTGGCGCCGCTACGGGAAGCTCTCC
CGCCACCTCATGAAGGTCAAGCTCAAGAAGTACCAAGTTCTCTTCTGCGCGACCCCTTCGTGCGCCTGATC
TCCGCTTCCGCAGCAAGTTTCGAGCTGGAGAACGAGGAGTTCTACCGCAAGTTGCGCGTGCCCATGCTGCGGCTG
TACGCCAACACACCAGCCTGCCCCGCTCGGCGCGCGAGGCCTTCCGCGCTGGCCTCAAGGTGTCCTTCGCCAAC
TTCATCCAGTACCTGCTGGACCCGCACACGGAGAAGCTGGCGCCCTTCAACGAGCACTGGCGGCAGGTGTACCGC
CTCTGCCACCCGTGCCAGATCGACTACGACTTCGTGGGGAAGCTGGAGACTCTGGACGAGGACGCCGCGCAGCTG
CTGCAGCTACTCCAGGTGGACCGGCAGCTCCGCTTCCCCCGAGCTACCGAACAGGACCGCCAGCAGCTGGGAG
GAGGACTGGTTTCGCCAAGATCCCCCTGGCCTGGAGGCAGCAGCTGTATAAACTCTACGAGGCCGACTTTGTTCTC
TTCGGCTACCCCCAAGCCCCGAAAACCTCCTCCGAGACTGAAAGCTTTCGCGTTGCTTTTTCTCGCGTGCTTGAAC
CTGACGCACGCGCACTCCAGTTTTTTTTATGACCTACGATTTTGCAATCTGGGCTTCTTGTTCACTCCACTGCCTC
TATCCATTGAGTACTGTATCGATATTGTTTTTAAGATTAAATATTTTCAGGTATTTAATACGAAATGTGGAAGG
GAATGCTGGAGTAAATATCCCCCTCTCCCCCTCCGCCCGCCCCGCCCGCCCCGCTCGCCCGCCCCGCTCGC
CCGCTCCTGTGGTTTTTCTGAGCGTGCGGGCTCCGGGAGGGGATGCTGAGGCTGATGGAGCTGCCTCCAGGGCTA
GGCCACTCACCGGAGGAGGGCGGGCCTGCACTTGAAGTCAGGCCGCACCTGTCTGTTTTTGAAGGGTAGCCG
ACAAATCCTTCCAGAGGGAAAGTTCTTTGTTTAAAGTGTGTACTTGAAAAGGTCAATCTTCAGGGCTTCTGTTT
GAAGTCAAGTCAGAGGTAAACCGGTGAGTTACAGAAGCAGGATTTCTAGGATTTCTAACTCCAGCTGTTCCATA
CTGTCTAGTTTTAAATTATGGCTGTTAAGGCCGGGCGGGTGACTCAGGCAGGTAATCCCAGAACTTTGGGAGGCC
AGACAGAAGGATCGCTTGAGGTGAGGAATTTGAGACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAAAA
AAAAAAAAAAAAAAAA

1383/2682
FIGURE 1252

MTKARLFRLWLVLGSVFMILLIIIVYWDSAGAAHFYLHTSFSRPHTGPPLPTPGPDRDRELTADSDVDEF LDKFLS
AGVKQSDLPRKETEQPPAPGSMEESVRGYDWSPRDARRSPDQGRQQAERRSVLRGFCANSSLAFPTKERAFDDIP
NSELSHLIVDDRHGAIYCYVPKVACTNWKRMIVLSGSLLRGAPYRDPLRIPREHVHNASAHLT FNKFWRRYGK
LSRHLMKVKLKKYTKFLFVRDPFVRLISAFRSKFELENEEFYRKFAVPMLRLYANHTSLPASAREAFRAGLKVSF
ANFIQYLLDPHTEKLAPFNEHWRQVYRLCHPCQIDYDFVGKLETLDAAQLLQLLQVDRQLRFPPSYRNRTASS
WEEDWFAKIPLAWRQQLYKLYEADFVLFGYPKPENLLRD

1384/2682
FIGURE 1253

AGTCTTGGCGGAGGTGACCAAAGCCACGTAATGTCCTAGTTTCGCTCATCCGTCCATGCCAGATGGATTGTGGGG
AAGGTGATTGGGACAAAAATGCAAAGACTGCTAAAGTGAGAGTGACCAGGCTTGTTCTGGATCCCTATTTATTA
AAGTATTTTAATAAGCGGAAAACCTACTTTGCTCACGATGCCCTTCAGCAGTGCACAGTTGGGGATATTGTGCTT
CTCAGAGCTTTACCTGTTCCACGAGCAAAGCATGTGAAACATGAACTGGCTGAGATCGTTTTCAAAGTTGGAAAA
GTCATAGATCCAGTGACAGGAAAGCCCTGTGCTGGAACCTACCTACCTGGAGAGTCCGTTGAGTTCGGAAACCACC
CAGCTAAGCAAAAATCTGGAAGAAGCAATATCTCTTCAGCACAGTGAAGCGGGAGTGGAAGAAGGATCTAAAGG
GAAAACTGACATGTTTATGTTATGGAAAAAGAAATTTTTCTAAGTTTCATCACAACTGTGTCCAGTTTCTCTG
TGGTGTATGAAATAGCTAAAAGCAAATGAAGTAAAGGCATACTATGGTTTTTCACAAAAAAAAAAAAAAAAAA

1385/2682
FIGURE 1254

MSVVRSSVHARWIVGKVIQTKMQKTAKVRVTRLVLDPYLLKYFNKRKTYFAHDALQQCTVGDIVLLRALPVPRAK
HVKHELAEIVFKVGKVIDPVTGKPCAGTTYESPLSSETTQLSKNLEELNISSAQ

1386/2682
FIGURE 1255

GAGTTTTCATTTGTGGTGAGATTCTCTCCAGGCCACAAGACATTTCTGCTCGGAACCTTGTTTACTAATTTCC
ACTGCTTTTAAAGGCCCTGCACTGAAAATGCAAGCTCAGGCGCCGGTGGTCGTTGTGACCCAACCTGGAGTCGGTC
CCGGTCCGGCCCCCAGAACTCCAAGTGGCAGACAGGCATGTGTGACTGTTTCAGCGACTGCGGAGTCTGTCTCT
GTGGCACATTTTGTTCCTCGTGCCTTGGGTGTCAAGTTGCAGCTGATATGAATGAATGCTGTCTGTGTGGAACAA
GCGTCGCAATGAGGACTCTCTACAGGACCCGATATGGCATCCCTGGATCTATTTGTGATGACTATATGGCAACTC
TTTGCTGTCCCTCATTGTACTCTTTGCCAAATCAAGAGAGATATCAACAGAAGGAGAGCCATGCGTACTTTCTAAA
AACTGATGGTGAAAAGCTCTTACCGAAGCAACAAAATTCAGCAGACACCTCTTCAGCTTGAGTTCTTCACCATCT
TTTGCAACTGAAATATGATGGATATGCTTAAGTACAAGTATGATGGCATGAAAAAATCAAATTTTTGATTTATTAT
AAATGAATGTTGTCCCTGAAGTTAGCTAAATGGTGCAAGTTAGTTTCTCCTTGCTTTTCATATTATCGAATTTCTT
GGCTTATAAACTTTTTAAATTACATTTGAAATATAAACCAATGAAATATTTTAACTGATAAAAAAAAAAAAAAA
AAATAAAAAA

1387/2682
FIGURE 1256

MQAQAPVVVVTQPGVGPGPAPQNSNWQTGMCDCFSDCGVCLCGTFCFPCLGCQVAADMNECCLCGTSVAMRTLYR
TRYGIPGSICDDYMATLCCPHCTLQIKRDINRRRAMRTF

1388/2682
FIGURE 1257

ACGAGGATCCGGTGTTCACCCAGGGGGAAAAATGCGGCCTTTGACTGAAGAGGAGACCCGTGTCATGTTTGAG
AAGATAGCGAAATACATTGGGGAGAATCTTCAACTGCTGGTGGACCGGCCGATGGCACCTACTGTTTCCGTCTG
CACAACGACCGGGTGTACTATGTGAGTGAGAAGATTATGAAGCTGGCCGCAATATTTCCGGGGACAAGCTGGTG
TCGCTGGGGACCTGCTTTGGAAAATTCACTAAAACCCACAAGTTTCGGTTGCACGTCACAGCTCTGGATTACCTT
GCACCTTATGCCAAGTATAAAGTTTGGATAAAGCCTGGTGCAGAGCAGTCCTTCCTGTATGGGAACCATGTGTTG
AAATCTGGTCTGGGTCGAATCACTGAAAATACTTCTCAGTACCAGGGCGTGGTGGTGTACTCCATGGCAGACATC
CCTTTGGGTTTTGGGGTGGCAGCCAAATCTACACAAGACTGCAGAAAAGTAGACCCCATGGCGATTGTGGTATTT
CATCAAGCAGACATTGGGGAATATGTGCGGCATGAAGAGACGTTGACTTAAAACGAAGCCATTCCAAGGACAGAC
GGCTGTATGGAAAGGCCGAGCTTTGTTTCCTGTGTTTGTGTGGACTCCACCATCATGTTGAATTTTGTCAACACT
CTGGCCTCTTCAGGGACTTCTTATTTACTGTACTCTCTATCACTGACAAATGCAGGCTGGATTCTTATTATATAC
AGAGATGGCTCAAAAATGGGGTTTCAGATCTTTGTGACGAAATAGAATACTGTTTCATATTTGAATCAGAGGGCT
TCTTGTTCTGAGAAATAGGTTCAAAATCATTGGAACCAGGAACAAGAATAGCTTATTGTTATCTGTGATAACACT
GTTTTCTAAACACAAGGATTTTCTTTTTTATTAATATGCAACATAGACATTGCCATAACAGAATAATAAACCACA
TGTGGGGTTTTAAAAATGAAATTTGGCTAATAGGAGCAATTCAGCTATTTTCTATACAGTAATTGGTGTGTGGT
ATAGAAGAAAAACGGGTTCAAACCCCACTTCTGCCACCTACCAGCTATATGGCCTTGAATGAGTCATTACGCTTT
AATAAGGTTTCATTTTCTTCTGTTTAAAAAGACACAAAACCTTGAAAATCAGCTTTGGCCATCTACCTGAGAATTAG
AAAGTCTGATTTTGGAAATTAGAAATCATGATTGTAGGCTGGGCACAGTGTGCGCGCTGTAATCCCAGCACTTTG
GGAGGCCAAGGCGGACGGATCACTTGAGGTTAGGAGTTTGTAGACCAGCCTGGCCAACATGGTGAAACCCCATCTC
TACTAAAAAAA

1389/2682
FIGURE 1258

MRPLTEEETRVMEKIAKYIGENLQLLVDRPDGTYCFRLHNDRVYYVSEKIMKLAANISGDKLVSLGTCFGKFTK
THKFRLHVTALDYLA PYAKYKVIKPGAEQSFLYGNHVLKSGLG RITENTSQYQG VVVYSMADIPLGFGVAAKST
QDCRKVDPM AIVVFHQADIGEYVRHEETLT

1390/2682
FIGURE 1259

GGAAGAAAACCTGAAAAAGACCCCAAAGAAGAATATGAAAAATGGTAACTGGAGCCGTAGCGTCGGTGCTGGAAGA
CGAGGCCACAGACACTTCTGATAGTGAAGGAAGCTGTGGATCGGAAAAGGACCACCTTTTATTCTGATGATGACGC
AATAGAAGCTGACAGTGAGGGTGATGCTGAGCCCTGTGACAAAGAAAATGAAAATGATGGAGAATCAAGTGTTGG
GACTAATATGGGCTGGGCAGATGCTATGGCTAAAGTCCTCAACAAGAAAACCTCCTGAAAGTAAACCTACTATTCT
GGTCAAAAATAAGAAGCTGGAAAAGGAAAAAGAAAAGTTAAAGCAAGAAAGACTAGAGAAAATAAAACAGCGTGA
TAAGAGGCTGGAGTGGGAAATGATGTGCAGAGTAAAGCCAGATGTTGTCCAAGACAAAGAGACAGAGAGAAATCT
TCAGAGAATTGCAACAAGGGGTGTGGTGCAATTATTTAATGCTGTTCAGAAACATCAAAGAATGTTGATGAAAA
GGTTAAGGAAGCTGGAAGTTCTATGAGAAAGCGTGCTAAGTTGATATCAACTGTTTCCAAGAAAGATTTTCATCAG
TGTTTTGAGAGGGATGGATGGAAGTACAAATGAGACTGCTTCAAGCAGGAAGAAACCAAAGCCAAACAGACTGA
AGTGAAATCAGAAGAAGGCCAGGTTGGACGATCCTACGTGATGATTTTCATGATGGGAGCATCTATGAAAGACTG
GGACAAGGAAAGTGATGGGCCAGATGACAGCAGACCAGAATCTGCAAGTGACTCTGATACATTAAGCATCATAGG
AAATACAATTGCAGTCGTTTTATTTTTCTAGAAAAATATGTCATCCTCTGATAGTTGGGGAATTATAAGGATAC
CATTTGTAAGAAAGCCAAAAGACTTTTGCCAGATTTTCATATTTCCCCTTTTCATGTACACTTTATATATACTTCA
TTAAAATTATATTTTAAACCTTGTATAATTTTAAGCATTGTTTCCTCAGAACATTTGTAAAAGGATATATTTCTG
CTTGACCAGCGAGATGTGCATTTTGCCAGGATCATATTGGTCATGTCTATTGGTGTATTATTTTCAGTATCACCAA
TGTTTTCAGAAATACAGTACTAATTCATCATTAAACTCTTTGAAGTTAATATTTTTCTGCCTTCTAACTTATAGA
CTCAACTATGTATCTGTAGTTTTTGGGAATGGTTGGTGTTTTTTGCTTTGTGTTGGGAAGTTATTGAGAAAACCT
ATATAATAAAATTTAAAATTATAGTTTTTCAA

1391/2682
FIGURE 1260

MKMVTGAVASVLEDEATDTSDEGSCGSEKDFYSDDDAIEADSEGDAEPCDKENENDGESSVGTNMGWADAMAK
VLNKKTPESKPTILVKNKKLEKEKEKLKQERLEKIKQORDKRLWEMMCRVKPDVVQDKETERNLQRIATRGGVQL
FNAVQKHQKNVDEKVKEAGSSMRKRAKLITVSKKDFISVLRGMDGSTNETASSRKKPKAQTEVKSEEGPGWTI
LRDDFMMGASMKDWDKESDGPDDSRPESASDST

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FIGURE 1261

AAACATGAATTCAAACGGCTCATCTTATTTTCGACCATTTCGGCCCCATCATGAAAGTGAAAAATGAAAAGCTCAAC
ATGGCCAAACACGCTTATCAATGTTATCGTGCCTCTAGCAAAAAGGGTGGACAAGTTCCGGCAGTTCATGCAGAAT
TTCAGGCCCTGCTGATGAAGTTTTTAGATGTGTGCCTTTAAGCCCTTGATTGTGCGGTGTTGGATCTTAGAAGCTG
TGATGGCTCAGATGCACATATTGGCTGAGGATAACCAGCTAAGTGATTTACCAGCTTGTTTTAAACATAGAAAA
TCCTACTGTCTAATTATAAATCTTGAAAGATCAAGCTGATTTTTTATTTCTTTTTTTTTGAGATGGAGTCTTACT
CTGTCACCCAGGCTGGAGTGCAGTGGCACGAACCTCTGCTCACTGCAACCTTCACCTCCCAGGTTTCAGGGAGATGT
GCATTGAGCAGGATGGGAGAGTCCATCTCACTGTTGTTTACTTTGGGAAAGAAGAAATAAATGAAGTCAAAGGAG
TACTTGAAAACACTTCCAAAGCTGCCAACTTCAGGAACCTTACCTTCATCCAGCTGAATGGAGAATTTTCTCGGG
GAAAGGGACTTGATGTTGGAGCCCGCTTCTGGAAGGGAAGCAACGTCCTTCTCTTTTTCTGTGATGTGGACATCT
ACTTCACATCTGAATTCCTCAATACGTGTAGGCTGAATACACAGCCAGGGAAGAAGGTATTTTATCCAGTTCTTT
TCAGTCAGTACAATCCTGGCATAATATACGGCCACCATGATGCAGTCCCTCCCTTGGAACAGCAGCTGGTCATAA
AGAAGGAACTGGATTTTGGAGAGACTTTGGATTTGGGATGACGTGTCAGTATCGGTTCAGACTTCATCAATATAG
GTGGGTTTGATCTGGACATCAAAGGCTGGGGCGGAGAGGATGTGCACCTTTATCGCAAGTATCTCCACAGCAACC
TCATAGTGGTACGGACGCCTGTGCGAGGACTCTTCCACCTCTGGCATGAGAAGCGCTGCATGGACGAGCTGACCC
CCGAGCAGTACAAGATGTGCATGCAGTCCAAGGCCATGAACGAGGCATCCACGGCCAGCTGGGCATGCTGGTGT
TCAGGCACGAGATAGAGGCTCACCTTCGCAAAACAGAAACAGAAGACAAGTAGCAAAAAACATGA~~ACT~~CCCAGAG
AAGGATTGTGGGAGACACTTTTTCTTTCTTTTGCATTTACTGAAAGTGGCTGCAACAGAGAAAAGACTTCCATA
AAGGACGACAAAAGAATTGGACTGATGGGTGAGAGATGAGAAAGCCTCCGATTTCTCTCTGTTGGGCTTTTTACA
ACAGAAATCAAAATCTCCGCTTTGCCTGCAAAAGTAACCCAGTTGCACCCTGTGAAGTGTCTGACAAAGGCAGAA
TGCTTGTGAGATTATAAGCCTAATGGTGTGGAGGTTTTGATGGTGTTTACAATACACTGAGACCTGTTGTTTTGT
GTGCTCATTGAAATATTCATGATTTAAGAGCAGTTTTGTAAAAAATTCATTAGCATGAAAGGCAAGCATATTTCT
CCTCATATGAATGAGCCTATCAGCAGGGCTCTAGTTTCTAGGAATGCTAAAATATCAGAAGGCAGGAGAGGAGAT
AGGCTTATTATGATACTAGTGAGTACATTAAGTAAAATAAATGGACCAGAAAAGAAAAGAAACCATAAAATATCG
TGTCATATTTTCCCCAAGATTAACCAAAAATAATCTGCTTATCTTTTTGGTTGTCCTTTTAACTGTCTCCGTTTT
TTTCTTTTATTTAAAAATGCACTTTTTTTCCCTTGTGAGTTATAGTCTGCTTATTTAATTACCACCTTTGCAAGCC
TTACAAGAGAGCACAAGTTGGCCTACATTTTTTATATTTTTTAAGAAGATACTTTGAGATGCATTATGAGAACTTT
CAGTTCAAAGCATCAAATTGATGCCATATCCAAGGACATGCCAAATGCTGATTCTGTCAGGCACCTGAATGTCAGG
CATTGAGACATAGGGAAGGAATGGTTTGTACTAATACAGACGTACAGATACTTTCTCTGAAGAGTATTTTCGAAG
AGGAGCAACTGAACACTGGAGGAAAAGAAAATGACACTTTCTGCTTTACAGAAAAGGAAACTCATTGAGACTGGT
GATATCGTGATGTACCTAAAAGTCAGAAACCACATTTTCTCCTCAGAAGTAGGGACCGCTTCTTACCTGTTTAA
ATAAACCAAAGTATACCGTGTGAACCAAACAATCTCTTTTCAAACAGGGTGCTCCTCCTGGCTTCTGGCTTCCA
TAAGAAGAAATGGAGAAAAATATATATATATATATATATTGTGAAAGATCAATCCATCTGCCAGAATCTAGTG
GGATGGAAGTTTTTGTACATGTTATCCACCCAGGCCAGGTGGAAGTAACTGAATTATTTTTTAAATTAAGCAG
TTCTACTCGATCACCAAGATGCTTCTGAAAATTGCATTTTATTACCATTTCAAACATTTTTTAAAAATAAATAC
AGTTAACATAGAGTGGTTTTCTTCATTCATGTGAAAATTATTAGCCAGCACCAGATGCATGAGCTAATTATCTCTT
TGAGTCCTTGCTTCTGTTTGCTCACAGTAAGCTCATTGTTTAAAAGCTTC

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FIGURE 1262

MESYSVTQAGVQWHELCSLQPSPPRFREMCIEQDGRVHLTVVYFGKEEINEVKGVLENTSKAANFRNFTFIQLNG
EFSRCGLDVGARFWKGSNVLLFFCDVDIYFTSEFLNTCRLNTQPGKKVFYPVLF SQYNPGIIYGHHDVPPLEQ
QLVIKKETGFWRDFGFGMTCQYRSDFINIGGFDLDIKGWGGEDVHLYRKYLHSNLIVVRTPVRGLFHLWHEKRCM
DELTPEQYKMCMQSKAMNEASHGQLGMLVFRHEIEAHLRKQKQKTSSKKT

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FIGURE 1263

CCGCTGTTATACGTCACTTCCACGGCTCAGCGTCAGGGAGGAGAGAGAATGCTCTTTTCGAGGCGGAGGTTCGTGGA
GGCTTTAATCGAGGTGGTGGAGGTGGCGGCTTCAACCGAGGCGGCAGCAGCAACCACTTCCGAGGTGGAGGCGGC
GGTGGAGGCGGCGGCAATTTTCAGAGGCGGCGGCAGGGGAGGATTTGGACGAGGGGGTGGCCGCGGAGGCTTTAAC
AAAGGCCAAGACCAAGGACCTCCAGAACGTGTAGTCTTATTAGGAGAGTTCCCTGCATCCCTGTGAAGATGACATA
GTTTGTAATGTACCACAGATGAAAATAAGGTGCCTTATTTCAATGCTCCTGTTTACTTAGAAAACAAAGAACAA
ATTGAAAAGTGGATGAAATATTTGGACAACCTCAGAGATTTTTATTTTTCAGTTAAGTTGTCAGAAAACATGAAG
GCTTCATCCTTTAAAAAACTACAGAAGTTTTATATAGACCCATATAAGCTGCTGCCACTGCAGAGGTTTTTACCT
CGACCTCCAGGTGAGAAAGGACCTCCAAGAGGTGGTGGCAGGGGAGGCCGAGGAGGAGGAAGAGGAGGAGGTGGC
AGAGGTGGTGGCAGAGGCGGTGGTTTTAGAGGTGGAAGAGGAGGTGGAGGTGGGGGCTTCAGAGGAGGAAGAGGT
GGTGGTTTCAGAGGGAGAGGACATTAAAGTGAAACAGTTGACAGACATCACCAGTTGACTTCTGCATTAACCTGCA
TGATCTGTTTCTACTATGGATTGGAACTTGTTTCTTGAACAAGTCTTGAAGATCTTGGTCATTTTATGACAATG
GATCTAAAATGTCAGCATCATGCAAAGTGCAACGGAATAGTGAATTTTGCTCTAAAAGAGCATGAACAAGTCTTT
CTAATGTTTTGTACAGTGCCTGGCACTCTGTGGGTGCTCAATAAATGGATAGGAGTTTTTCAATTTGAAGCATATTT
GAATTTTTAAAATAAAGTGTTTTATTCCCTTAAAAAAAAAAAAAAAAA

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FIGURE 1264

MSFRGGGRGGFNRRGGGGGGFNRRGSSNHFRGGGGGGGGGNFRGGGRGGFGRGGGRGGFNKGQDQGPPERVVLLGE
FLHPCEDDIVCKCTTDENKVPYFNAPVYLENKEQIGKVDEIFGQLRDFYFSVKLSENMKASSFKKLQKFYIDPYK
LLPLQRFLPRPPGEKGPPRGGGRGGGRGGGRGGGGRRGGGRGGGFRGGGRGGGGGFRGGGRGGGFRGRGH

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FIGURE 1265

ATGCTGCTGAAAGAGTACCGGATCTGCATGCCGCTCACCGTAGACGAGTACAAAATTGGACAGCTGTACATGATC
AGCAAACACAGCCATGAACAGAGTGACCGGGGAGAAGGGGTGGAGGTCGTCCAGAATGAGCCCTTTGAGGACCCCT
CACCATGGCAATGGGCAGTTCACCGAGAAGCGGGTGTATCTCAACAGCAAACCTGCCTAGTTGGGCTAGAGCTGTT
GTCCCCAAAATATTTTATGTGACAGAGAAGGCTTGGAACTATTATCCCTACACAATTACAGAATACACATGTTCC
TTTCTGCCGAAATTCTCCATTATATAGAAACCAAGTATGAGGACAACAAAGGAAGCAATGACACCATTTTCGAC
AGTGAAGCCAAAGACGTGGAGAGAGAAGTTTGCTTTATTGATATTGCCTGCGATGAAATTCCAGAGCGCTACTAC
AAAGAATCCGAGGATCCTAAGCACTTCAAGTCAGAGAAGACAGGACGGGGACAGTTGAGGGAAGGCTGGAGAGAT
AGTCATCAGCCTATCATGTGCTCCTACAAGCTGGTGACTGTGAAGTCTGAGGTCTGGGGCTTCAGACCAGAGTG
GAACAATTTGTACACAAGGTGGTCCGAGACATTCTGCTGATTGGACATAGACAGGCTTTTGCATGGGTGTGATGAG
TGGTATGACATGACAATGGATGAAGTCCGAGAATTTGAACGAGCCACTCAGGAAGCCACCAACAAGAAAATCGGC
ATTTTCCCACCTGCAATTTCTATCTCCAGCATCCCCCTGCTGCCTTCTTCCGTCCGCAGTGCGCCTTCTAGTGCT
CCATCCACCCCTCTCTCCACAGACGCACCCGAATTTCTGTCCGTTCCCAAAGATCGGCCCCGGAAAAAGTCTGCC
CCAGAACTCTCACACTTCCAGACCCTGAGAAAAAAGCCACCCTGAATTTACCCGGCATGCACTCTTCAGATAAG
CCATGTCGGCCCAAATCTGAGTAACTTTATATAAATATCTCATGGGGTTTTATATTTTCATTTGTTGTTGTTGTT
TTTTTTTAAGAATCTTCTGATAGAGAAAAAGACTGCTTTGTCACTCAAACATGTTCTTCGACCTTTCAGTGTG

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FIGURE 1266

MLLKEYRICMPLTVDEYKIGQLYMISKHSHEQSDRGEGVEVVQNEPFEDPHHGNGQFTEKRVYLN SKLP SWARAV
VPKIFYVTEKAWNYYPYTITEYTCSFLPKFSIHIETKYEDNKGSNDTIFDSEAKDVEREVCFID IACDEIPERY
KESEDPKHFKSEKTGRGQLREGWRDSHQPI MCSYKLVTVKSEVWGLQTRVEQFVHKVV RDILLIGHRQAF AWVDE
WYDMTMDEVREFERATQEATNKKIGIFPPAISISSIPLLPSSVRSAPSSAPSTPLSTDAPEFLSVPKDRPRK KSA
PETLTLPDPEKKATLNLPGMHSSDKPCRPKSE

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FIGURE 1267

GGCCGGTAGCTGTTGCTGTTGGGGGACCCCTCATTCTGCGCTGCCGTCCCTGCTGCCTCATGGCGGCCATCG
GAGTTCACCTGGGCTGCACCTCAGCCTGTGTGGCCGTCTATAAGGATGGCCGGGCTGGTGTGGTTGCAAATGATG
CCGGTGACCGAGTTACTCCAGCTGTTGTTGCTTACTCAGAAAATGAAGAGATTGTTGGATTGGCAGCAAAACAAA
GTAGAATAAGAAATATTTCAAATACAGTAATGAAAGTAAAGCAGATCCTGGGCAGAAGCTCCAGTGATCCACAAG
CTCAGAAATACATCGCGGAAAGTAAATGTTTAGTCATTGAAAAAATGGGAAATTACGATATGAAATAGATACTG
GAGAAGAAACAAAATTTGTTAACCAGAAAGATGTTGCCAGACTGATATTTAGTAAATGAAAGAAACGGCACATT
CTGTATTGGGCTCAGATGCAAATGATGTAGTTATTACTGTCCCGTTTGATTTTGGAGAAAAGCAAAAAAATGCCC
TTGGAGAAGCAGCTAGAGCTGCTGGATTTAATGTTTTGCGATTAAATCACGAACCGTCTGCAGCTCTTCTTGCTT
ATGGAATTGGACAAGACTCCCCTACTGGAAAAAGCAATATTTTGGTGTTTAAGCTTGGAGGAACATCCTTATCTC
TCAGCGTCATGGAAGTTAACAGTGGAATATATCGGGTTCCTTCAACAAACACTGATGATAACATCGGTGGTGCAC
ATTTACAGAAACCTTAGCACAGTATCTAGCTTCTGAGTTCCAAAGATCCTTCAAACATGATGTGAGAGGAAATG
CGCGAGCCATGATGAAATTAACGAACAGTGCTGAAGTAGCGAAACATTCTTTGTCAACCTTGGGAAGTGCCAAC
GTTTTCTGACTCATTATATGAAGGGCAAGATTTTGATTGCAATGTGTCCAGAGCAAGATTGAACTTCTTTGTT
CTCCACTTTTTAATAAGTGTTTAGAAGCAATCAGAGGACTCTTAGATCAAAATGGATTACAGCAGATGATATCA
ACAAGGTTGTCTTTGTGGAGGGTCTTCTCGAATCCCAAAGCTACAGCAACTGATTAAAGATCTTTTCCCAGCTG
TTGAGCTTCTCAATTCTATCCCTCCTGATGAAGTGATCCCTATTGGTGCAGCTATAGAAGCAGGAATTCCTATTG
GGAAAGAAAACCTGTTGGTGGAAGACTCTCTTATGATAGAGTGTTTCAGCCAGAGATATTTTAGTTAAGGGTGTGG
ACGAATCAGGAGCCAGTAGATTACAGTGCTGTTTCCATCAGGGACTCCTTTGCCAGCTCGAAGACAACACACAT
TGCAAGCCCCTGGAAGCATATCTTCAGTGTGCCTTGAACCTCTATGAGTCTGATGGGAAGAACTCTGCCAAAGAGG
AAACCAAGTTTGACAGGTTGTACTCCAGGATTTAGATAAAAAAGAAAATGGATTACGTGATATATTAGCTGTTT
TTACTATGAAAAGGGATGGATCTTTACATGTGACATGCACAGATCAAGAACTGGAAAATGTGAAGCAATCTCTA
TTGAGATAGCATCTTAGTGTTTTAGAGAAATCAAGAATTTTTAAAAACAAGAATATCAACATTTGGTTTTGTGTA
TAAGTGGTGTGTTGATTAAATACTTTTTCAATGAAGTGTATAAACTATGTTTTATTAACTACAATATATCAGT
AAAAAAAAAAAAAAAA

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FIGURE 1268

MZAIGVHLGCTSACVAVYKDGRAGVVANDAGDRVTPAVVAYSENEEIVGLAAKQSRIRNISNTVMKVQILGRSS
SDPQAQKYIAESKCLVIEKNGKLYEIDTGEETKFVNPEDVARLIFSKMKETAHSVLSGDANDVVITVPFDFGEK
QKNALGEAARAAGFNVRLIHEPSAALLAYGIGQDSPTGKSNILVFKLGGTSLSLVMEVNSGIYRVLSTNTDDN
IGGAHFTETLAQYLASEFQRSFKHDVRGNARAMMKLTNSAEVAKHSLSTLGSANCFPDSLYEGQDFDCNVSRARF
VSTSPLFNKCLEARGLLDQNGFTADDINKVVLCGGSSRIPKLQQLIKDLFPAVELLSIPPDEVIPIGAAIEA
GKENLLVEDSLMIECSARDILVKGVEDSGASRFTVLFPSGTPLPARRQHTLQAPGSISSVCLELYESDGKN
KEETKFAQVVLQDLDDKENGRLDILAVLTMKRDGSLHVTCTDQETGKCEAISIEIAS

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FIGURE 1269

AGAGAGGGGTGCAAGATCCTGATTTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTATGAGCTTCA
ACCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATTCCTCAATTGAGAATTGTGTTAG
TGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCGGAAGTGTTTCATTCTGGCACTG
CAGCAAAATCCATTACCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCTAGTTGACA
CACCAGGCATTTTTCGACACAGAGGTGCCCAATGCTGAAACGTCCAAGGAGATTATTCGCTGCATTCTTCTGACCT
CCCCAGGGCCTCATGCTCTGCTTCTGGTGTTTCCACTGGGCCGTTACACTGAGGAAGAGCACAAAGCCACAGAGA
AGATCCTGAAAATGTTTGGAGAGAGGGCTAGAAGTTTCATGATTCTCATATTCACCCGGAAGATGACTTAGGTG
ACACCAATTTGCATGACTACTTAAGGGAAGCTCCAGAAGACATTCAAGACTTGATGGACATTTTTCGGTGACCGCT
ACTGTGCGTTAAACAACAAGGCAACAGGCGCTGAGCAGGAGGCCAGAGGGCACAGTTGCTGGGCCTGATCCAGC
GCGTGGTGAGGGAGAACAAGGAAGGCTGCTACACTAATAGGATGTACCAAAGGGCGGAGGAGGAGATCCAGAAGC
AAACACAAGCAATGCAAGAACTCCACAGAGTGGAGCTGGAGAGAGAGAAAGCGCGGATAAGAGAGGAGTATGAAG
AGAAAATCAGAAAGCTGGAAGATAAAGTGGAGCAGGAAAAGAGAAAGCAATGGAGAAGAACTAGCAGAAC
AGGAGGCTCACTATGCTGTAAGGCAGCAAAGGGCAAGAACGGAAGTGGAGAGTAAGGATGGGATACTTGAATTAA
TCATGACAGCGTTACAGATTGCTTCCTTTATTTTGTTACGCTCTGTTCCGGAAGATTAAACTTAATGAAAATCTG
TTTGTATTTTCTGCATATTCTCTGGCAACCTTGCCCCATACTTACTTATTTAGCATAGTCGAGTGCTCTAGTTTC
TGTCTCTCAGGCACTCGTAACTAAGGACCACCATTTGGCCATTGGTAGATGTTTGATTGACTTAACAAGAGAGGGA
CAAATTTTCAATTTGTGAACTCCAAAGCAGAAAGTATTGGTGCTTGCTACCTTGTTGAATTCTTCCTTAGACATG
CAGAGAAAATGTATGCAAGAGACCAAAAAGATGGCTCCAAGCTATGTCATGTTACCTGTAATAAAATCTTTTCTT
CTAGATTCTCTCTATGTTGGCAGATAATCTCCCCTTGTTAGCTTCCACTCACTTATTCTTGCATTTCAGAGTCACAA
TGATCATCTTACCCATGTGGTTTTTGAGAAAGAAAGATCAATTTCTTTGTTTGCAGTGGGTAATCTTAGAGATGGA
GATGATTGTAGAATTATTCTTAGATGAGTGTCAATTTATTTAATTCCATTGTCATATAAGGAGTCAAATTGTTTC
TTATCATTGTTCATTGAAGAACAGAGACCTGTCTGGAAAATCGATCTCTACAAATTCAATTAAATAATGATCCC
CAAATGCTGAAAAAGTGAAATACAGCAATTCAACAGATAATAGAGCAATGTTTAGTATATTTCAGCTGTATCTGTA
GAAACTCTTTGACGAACCTCAATTTAACCAATTTGATGAATACCCAGTTCTCTTCTTTTCTAGAGAAAGATAGTT
GCAACCTCACCTCCCTCACTCAACACTTTGAATACTTATTGTTTGGCAGGTCATCCACACACTTCTGCCCCCACT
GCATTGAATTTTTTGCTTATGTTGTTTATAATAAACTTTTCAATTATCTC

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FIGURE 1270

MAAQYGSMSFNPSTPGASYGPGRQEPRNSQLRIVLVGKTGAGKSATGNSILGRKVFHSGTAAKSITKKCEKRSSS
WKETELVVVDTPGIFDTEVPNAETSKEIIRCILLTSPGPHALLLVVPLGRYTEEEHKATEKILKMFGERARSFMI
LIFTRKDDLGDITNLHDYLRAPEDIQDLMDIFGDRYCALNNKATGAEQEAQRAQLLGLIQRVVRENKEGCYTNRM
YQRAEEEIQKQTQAMQELHRVELEREKARIREEYEEKIRKLEDKVEQEKRRKQMEKKLAEQEAHYAVRQQRARTE
VESKDGILELIMTALQIASFILLRLFAED

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FIGURE 1271

AGTCGCCTGGAAGCGTCCGCCCAAGGTCGCGGGCCGCTTGGGGAGTCAGCAGCGCGCCAGGCCCTTCGGGCCCC
ACACGCATTAGGTGCCTTCTTGATGGGTACGGAGTGAACGCGGGCGGCGGGGACCGAGGCAGCGCCCAGTTTG
TAACCGCCGCGCGCCCGCTGCCCGCGCGGCCACACCCAGCGCGCTTCCGGCCGGGCCACGTGACCGCGCGTGC
ACGTGTTCCGGCCTCTCCGCTTCGCGGCTCCGAACCTCCTCCTGGTTCGTCGGCATTCGTCCACGCGGAGCCGG
CTTGGGCGGGGCGGGGAGGCGGCGGCGGAGAGAAGCCGCGGAGACGCGAGCGCCGAGCGTCGCGAGGGAGCAGGC
CCGGGCAGGCAAGCGGCGGCCTCCGCCATGAACCCAGGGGCTGTTCAGGACTTCAACCCAGTAAGTTTCTCA
TCTACACCTGCCTGCTGCTCTTCTCGGTGCTGCTGCCCTCCGCCTGGACGGCATCATCCAATGGAGCTACTGGG
CCGTCTTTGCCCCCATATGGCTGTGGAAGCTTCTAGTCGTGCGAGGCGCCTTCGTGGGCGCGGGCGTTTGGGCCC
GCAACCTCGCTACCGCACCGAGGGAGAGGCCTGTGTGGAGTTCAAAGCCATGCTGATCGCTGTGGGCATCCACC
TGCTGCTGCTCATGTTTGAAGTCCTGGTCTGCGACAGGGTGGAGAGGGGCACCCACTTCTGGCTGCTGGTCTTCA
TGCCTCTCTTCTTCGTGTCCCCGTGTCCGTGGCTGCCTGCGTCTGGGGCTTTCGACACGATAGGTGCTGGAGC
TGGAGATCCTGTGCTCGGTCAACATCCTGCAGTTCATCTTCATCGCCCTAAAGCTGGACAGGATTATTCACTGGC
CGTGGCTGGTGGTGTGTTGTGCCCCGTGTGGATCCTCATGTTCGTTCCCTTTCCTGGTTCGTCCTCTATTACATCGTCT
GGATAACGATTGTGCTGCCTCTGCTCACTTTTGAGGTCCCTGCTGGTTACAGATTGGATGGCCACAATACATTCT
CCTACGTCTCCATATTTGTCCCCCTCTGGCTTTCCTTACTAACTTTAATGGCCACAACATTTAGGCGAAAGGGGG
GCAATCATTGGTGGTTTGGCATTTCGCAGAGACTTCTGTGAGTTTCTGCTTGAAATTTTCCATTTTAAAGAGAAT
ATGGGAACATTTTATATGATCTCCATCACGAAGATAGTGAAGATGCTGAAGAAACATCAGTTCCAGAAGCTCCGA
AAATTGCTCCAATATTTGGAAAGAAGGCCAGAGTAGTTATAACCCAGAGCCCTGGGAAATACGTTCCCCCCCCCTC
CCAAGTTAAATATTGATATGCCAGATTAACTCCTAGAGAGGACCCAGGCACACACAGACTCCACTTGGCCTTCG
CCTCTTGTTTCATTTCATCCCAAACCTGGAAATGGAAACAGGCTTCAAACACTCGTCTCACGCCGTGTTTGAGATCA
CCGCCTCATCAGTATGCATCATAGATGGAGATGGTTTCAGTATGTGGGTGTGTGTGATGTGTACCTGGGTAAGAG
ACTTGCTTTCCAGGTTTCGCACTTTCAGGTGTAGCTGGGGGCAGTAAGTCGAATTGTTTTAGTAGGTCTCATAAAG
GAATAACACACAGCTGTTTGTGTTAAATGCTACTGTACCTATCAAACTATTGTTTAAAAAGTATTTTTATACAC
TGCTAATCTAAAATTGTATTTAGATTGTGCCTGTCTATAACAATAGCAAATGTAAAAAGTTCAAAAAAAAAAAAA
AAAAAA

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FIGURE 1272

MLIAVGIHLLLLMFEVLVCDRVERGTHFWLLVFMPLEFFVSPVSVAACVWGFRHRSLELEILCSVNILQFIFIAL
KLDRIIHWPWLVEFVPLWILMSFLCLVLYYIVWSLLFLRSLDVVAEQRRTHVTMAISWITIVPLLTFEVLLVH
RLDGHNTFSYVSIFVPLWLSLLTLMATTERRKGGNHHWWFGIRRDFCQFLLEIFPFLREYGNISYDLHHEDSEDAE
ETSVPEAPKIAPIFGKKARVVITQSPGKYVPPPPKLNIDMPD

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FIGURE 1273

GTGTTTTCTGCGTGAGAGGAAAAGATGCTAGAACACAGGAGAATGGCGTGATTGACCTACCAGATTATGAGCAT
GTAGAAGATGAACTTTTCCTCCTTTCCACCTCCAGCCTCTCCAGAGAGACAAGATGGTGAAGGAACTGAGCCT
GATGAAGAGTCAGGAAATGGAGCACCTGTTCTGTACCTCCAAAGAGAACAGTTAAAAGAAATATACCCAAGCTG
GATGCTCAGAGATTAATTTTCAGAGAGAGGACTTCCAGCCTTAAGGCATGTATTTGATAAGGCAAAATTCAAAGGT
AAAGGTCATGAGGCTGAAGACTTGAAGATGCTAATCAGACACATGGAGCACTGGGCACATAGGCTATTCCCTAAA
CTGCAGTTTGAGGATTTTATTGACAGAGTTGAATACCTGGGAAGTAAAAAGGAAGTTCAGACCTGTTTAAAACGA
ATTGCACTTGATCTCCCTATTTTACATGAAGATTTTGTAGCAATAATGATGAAGTTGCGGAGAATAATGAACAT
GATGTCACCTTCTACTGAATTAGATCCCTTTCTGACAACTTATCTGAAAGTGAGATGTTTGCTTCTGAGTTAAGT
AGAAGCCTAACAGAAGAGCAACAACGAAGAATTGAGAGAAATAACAACCTGGCCTTGGAAGAAGGCAGGCAAAG
CTGCTGAGTAATAGTCAGACCCTAGGAAATGATATGTTAATGAATACACCCAGGGCACACACGGTTGAAGAGGTT
AATACTGATGAGGATCAAAAGGAGGAGTCAAATGGATTAAACGAAGACATTCTGGACAATCCATGTAATGATGCT
ATTGCCAATACTTTAAATGAAGAGGAAACACTGCTGGACCAGTCTTTTAAAAATGTGCAACAGCAACTTGATGCT
ACATCCAGAAATATTACTGAAGCTAGATAAGTTTCCATTAAAGAGAAAATGTATCTGTTAAGTCATCGTCCTGCAA
GCTTGGCGTTACTATGTATTTTTCTTCTTGGAGTGAAAATCCTTAGATAGTAAAAGTGTATAGATTATTGTTT
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1274

MLEPQENGVIDLPDYEHVEDETFFPPFPPASPERRQDGEGETEPDEESGNGAPVFPVPPKRTVKRNIPKLDAQRLISE
RGLPALRHVFDKAKFKGKGHEADLKMLIRHMEHWAHRLFPKLQFEDFIDRVEYLGSKKEVQTCLKRIRLDLPIL
HEDFVSNNDEVAENNEHDVTSTELDPFLTNLSESEMFASELSRSLTEEQORRIERNKQLALERRQAKLLSNSQTL
GNDMLMNTPRAHTVEEVNTDEDQKEESNGLNEDILDNFCNDIAIANTLNEEETLLDQSFKNVQQQLDATSRNITEA

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FIGURE 1275

GGCACGAGGCAGGCCAGGTGTGTGCGTCCGTCCGTCTTTCCGTGCCCACGCCGGAGACCAGCCCCGGAGGCCGCC
TGGGCCATCCCTGTGCCAGGCACCATGAAGCAGGAGTCTGCAGCCCCGAACACCCCGCCACCTCGCAGTCCCC
TACGCCGTCCGCTCAGTTCCCCCGAAACGACGGCGACCCCTCAAGCGCTGTGGATTTTCGGGTACGGCTCCCTGGT
GTGGAGGCCCGACTTCGCCTACAGCGACAGCCGTGTGGGCTTCGTGCGCGGCTACAGCCGCCGTTTCTGGCAGGG
AGACACCTTCCATCGGGGACGCGACAAGATGCCTGGCCGTGTGGTGACGCTCCTTGAAGATCATGAGGGCTGCAC
TTGGGGCGTGGCATAACCAAGTGCAAGGGGAGCAGGTAAGCAAGGCCCTGAAGTACCTGAATGTGCGAGAGGCAGT
GCTTGGTGGCTACGATAACCAAGGAGGTACCTTCTATCCCCAAGATGCTCCTGACCAACCACTGAAGGCATTGGC
CTATGTGGCCACCCACAGAACCCTGGTTACCTGGGCCCTGCGCCTGAAGAGGCCATTGCCACGCAGATCCTGGC
CTGCCGGGGCTTCTCCGGCCACAACCTTGAATACTTGCTGCGTCTGGCAGACTTCATGCAGCTCTGTGGGCCTCA
GGCGCAGGACGAGCACCTGGCAGCCATCGTGACGCTGTGGGCACCATGTTGCCCTGCTTCTGCCCCACCGAGCA
GGCTCTGGCGCTGGTGTGAGGGGCTGAGCCCCCTGCGGGGAGTGCTCATGTGGACATCAGGGCCAGACACCCACTC
CAGTGCACAAGACAGACTTGCGACCGCTTGAGCCCACTGAGCAGATATGGTGGGTGGCTGGAGGCCTTCTCTTTCT
CAGTCCCTGCCTGTCTGCCAGCCTGCAGCTCTCCTGCTTGACACTGACTTACTACTTGAACTTTATTTATTGCA
CCAIGTTGGTGTGGTGGGCAGGTGGAGGGCCTGCCCTGGACACAGGGGCCCTGCTGAGCAGTGGCCCCATCCTGG
AACTTGACCAGATTCCCCCAGTGCTGCTGCTAACCCACACCACCCAGGCCTCCACCTCCCCAGGGAGTCTCCA
AGAGCCTCGATCCTCTGCTCACTCAGCCCAGCCATCCATAGCCCTGGGAATTCCACCTGCCAAGGATCCCAGCAG
GCTGGATGAGGGATAGTAGGGCATGAGGAGAAGGAGCCCTGTAAGGACTGAGGCCCCGGCCAGCCCTTCTCCTCC
ACCAGTTCCCCAGAGCAGAGCTGGAGCTGATGCCTGGACACAGCTGCTGAGCCTGGCCTGGGCCTCTTACCCACT
TGGTTGTTTTCTTGTCCCTCTGTCTGTCTGTCTATCTACTTGTCTGTCTGGGCCACTCCTGCCTGTGTGTGGTC
TATTCCTGGGAAGCTCATCACTACAGGCCCTGGCAACCTTCCAGTCTGTCCATACTGTTACCCATAAACTAT
CTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1276

MKQESAAPNTPPTSQSPTPSAQFPRNDGDPQALWIFGYGSLVWRPDFAYSDSRVGFVRGYSRRFWQGDTFHRGSD
KMPGRVVTLLLEDHEGCTWGVAYQVQGEQVSKALKYLNVREAVLGGYDTKEVTFYPQDAPDQPLKALAYVATPQNP
GYLGPAPEEAIATQILACRGFSGHNLEYLLRLADFMQLCGPQAQDEHLAAIVDAVGTMPLPCFCPT EQALALV

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FIGURE 1277A

TGAGGGAAGAAGAGGAAGCGGGAGGAGCTTGGCTTCCTCGCGTATTTGAGGACAGCCCATCTCCCTTCAAGAACC
CTACGGAGAGTCGGACTGCATCTCCGCAGCGAGCTCTTGGAGCGCCGCCGGGAGGCGAAGGATGAGGCGG
CTCCGCGCGCCGGCTGCGGGGAGCGCTCCTGCTGTGGATTGTCAGCAGCTGCCTCTGCAGAGCCTGGACGGCTC
CCTCCACGTCCCAAAAATGTGATGAGCCACTTGTCTCTGGACTCCCCATGTGGCTTTCAGCAGCTCCTCCTCCA
TCTCTGGTAGCTATTCTCCCGGCTATGCCAAGATAAAACAAGAGAGGAGGTGCTGGGGGATGGTCTCCATCAGACA
GCGACCATTATCAATGGCTTCAGGTTGACTTTGGCAATCGGAAGCAGATCAGTGCCATTGCAACCCAAGGAAGGT
ATAGCAGCTCAGATTGGGTGACCCAATACCGGATGCTCTACAGCGACACAGGGAGAACTGGAAACCCCTATCATC
AAGATGGGAATATCTGGGCATTTCCCGGAAACATTAACCTCTGACGGTGTGGTCCGGCAGCAATTACAGCATCCGA
TTATTGCCCGCTATGTGCGCATAGTGCCCTCTGGATTGGAATGGAGAAGGTTCGATTGGACTCAGAATTGAAGTTT
ATGGCTGTTCTTACTGGGCTGATGTTATCAACTTTGATGGCCATGTTGTATTACCATATAGATTACAGAAACAAGA
AGATGAAAACACTGAAAGATGTCATTGCCTTGAACCTTAAGACGCTCTGAAAGTGAAGGAGTAATCCTGCACGGAG
AAGGACAGCAAGGAGATTACATTACCTTGGAACTGAAAAAGCCAAGCTGGTCTCAGTTTAAACTTAGGAAGCA
ACCAGCTTGGCCCCATATATGGCCACACATCAGTGATGACAGGAAGTTTGCTGGATGACCACCACTGGCACTCTG
TGGTCATTGAGCGCCAGGGGCGGAGCATTAAACCTCACTCTGGACAGGAGCATGCAGCACTTCCGTACCAATGGAG
AGTTTGACTACCTGGACTTGGACTATGAGATAACCTTTGGAGGCATCCCTTTTCTGGAAGCCAGCTCCAGCA
GTAGAAAGAATTTCAAAGGCTGCATGGAAAGCATCAACTACAATGGCGTCAACATTACTGATCTTGCCAGAAGGA
AGAAATTAGAGCCCTCAAATGTGGGAAATTTGAGCTTTTCTTGTGTGGAACCCATACGGTGCCTGTCTTTTTTCA
ACGCTACAAGTTACCTGGAGGTGCCCGGACGGCTTAACCAGGACCTGTTCTCAGTCAGTTTCCAGTTTAGGACAT
GGAACCCCAATGGTCTCCTGGTCTTCAGTCACCTTTCGGGATAATTTGGGCAATGTGGAGATTGACCTCACTGAAA
GCAAAGTGGGTGTTACATCAACATCACACAGACCAAGATGAGCCAAATCGATATTTCTCAGGTTCTGGGTTGA
ATGATGGACAGTGGCAGGAGGTTTCGCTTCCTAGCCAAGGAAAATTTTGTATTCTCACCATCGATGGAGATGAAG
CATCAGCAGTTTGAACCTAATAGTCCCTTCAAGTTAAACTGGCGAGAAGTACTTTTTTGGAGGTTTTCTGAACC
AGATGAATAACTCAAGTCACCTCTGTCTTCAGCCTTCAATCCAAGGATGCATGCAGCTCATTCAAGTGGACGATC
AACTTGTAATTTATACGAAGTGGCACAAGGAAGCCGGGAAGTTTCGCGAATGTCAGCATTGACATGTGTGCGA
TCATAGACAGATGTGTGCCAATCACTGTGAGCATGGTGGAAAGTGCTCGCAAACATGGGACAGCTTCAAATGCA
CTTGTGATGAGACAGGATACAGTGGGGCCACCTGCCACAACCTCTATCTACGAGCCTTCCTGTGAAGCCTACAAAC
ACCTAGGACAGACATCAAATTATTACTGGATAGATCCTGATGGCAGCGGACCTCTGGGGCCTCTGAAAGTTTACT
GCAACATGACAGAGGACAAAGTGTGGACCATAGTGCTCATGACTTGCAGATGCAGACGCCTGTGGTTCGGCTACA
ACCCAGAAAAATACTCAGTGACACAGCTCGTTTACAGCGCCTCCATGGACCAGATAAGTGCCATCACTGACAGTG
CCGAGTACTGCGAGCAGTATGTCTCCTATTTCTGCAAGATGTCAAGATTGTTGAACACCCAGATGGAAGCCCTT
ACACTTGGTGGGTTGGCAAAGCCAACGAGAAGCACTACTACTGGGGAGGCTCTGGGCCTGGAATCCAGAAATGTG
CCTGCGGCATCGAACGCAACTGCACAGATCCCAAGTACTACTGTAACCTGCGACGCGGACTACAAGCAATGGAGGA
AGGATGCTGGTTTTCTTATCATAAAAGATCACCTGCCAGTGAGCCAAGTGGTGGTTGGAGATACTGACCGTCAAG
GCTCAGAAGCCAAATTGAGCGTAGGTCTCTGCGCTGCCAAGGAGACAGGAATTATTGGAATGCCGCTCTTTCC
CAAACCCATCTCCTACCTGCACTTCTCTACTTTCCAAGGGGAACTAGCGCTGACATTTCTTTCTACTTCAAAA
CATTAAACCCCTGGGGAGTGTCTTGAATAATGAGGAAAGGAAGATTTTCATCAAGCTGGAGCTGAAGTCTGCCA
CAGAAGTGTCTTTTCAATTGATGTGGGAAATGGGCCAGTAGAGATTGTAGTGAGGTCACCAACCCCTCTCAACG
ATGACCAGTGGCACC GGTCACCTGCAGAGAGGAATGTCAAGCAGGCCAGCCTACAGGTGGACCGGCTACCGCAGC
AGATCCGCAAGGCCCCAACAGAAGGCCACACCCGCTGGAGCTCTACAGCCAGTTATTTGTGGGTGGTGTGGGG
GCCAGCAGGGCTTCTTGGGCTGCATCCGCTCCTTGAGGATGAATGGGGTGACACTTGACCTGGAGGAAAGAGCAA
AGGTACATCTGGGTTTCATATCCGGATGCTCGGGCCATTGCACCAGCTATGGAACAAACTGTGAAAATGGAGGCA
AATGCCTAGAGAGATACCACGGTTACTCCTGCGATTGCTCTAATACTGCATATGATGGAACATTTTGCAACAAAG
ATGTTGGTGCATTTTTTTGAAGAAGGGATGTGGCTACGATATAACTTTTCAAGCACCAGCAACAAATGCCAGAGACT
CCAGCAGCAGAGTAGACAACGCTCCCGACCAGCAGAACTCCCACCCGGACCTGGCACAGGAGGAGATCCGCTTCA
GCTTCAGCACCACCAAGGCGCCCTGCATTCTCCTCTACATCAGCTCCTTACCACAGACTTCTTGGCAGTCTCTG
TCAAACCCACTGGAAGCTTACAGATTGATACAACTGGGTGGCACCCGAGAGCCATACAATATTGACGTAGACC
ACAGGAACATGGCCAATGGACAGCCCCACAGTGTCAAACATCACCCGCCACGAGAAGACCATCTTTCTCAAGCTCG
ATCATTATCCTTCTGTGAGTTACCATCTGCCAAGTTTCATCCGACACCCCTTCAATTCTCCAAGTCGCTCTTTC

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FIGURE 1277B

TGGGAAAAGTTATAGAAACAGGGAAAATTGACCAAGAGATTACAAAATACAACACCCCAGGATTCACCTGGTTGCC
TCTCCAGAGTCCAGTTCAACCAGATCGCCCCTCTCAAGGCCGCCTTGAGGCAGACAAACGCCTCGGCTCACGTCC
ACATCCAGGGCGAGCTGGTGGAGTCCAACATGCGGGGCCTCGCCGCTGACCTCTCCCCATGTCGTCCGCCACCG
ACCCCTGGCACCTGGATCACCTGGATTAGCCAGTGCAGGATTTTCCATATAATCCAGGACAAGGCCAAGCTATAA
GAAATGGAGTCAACAGAACTCGGCTATCATTGGAGGCGTCATTGCTGTGGTGATTTTCACCATCTGTGCACCC
TGGTCTTCCTGATCCGGTACATGTTCCGCCACAAGGGCACCTACCATAACGAAGCAAAGGGGGCGGAGTCGG
CAGAGAGCGCGGACGCCGCCATCATGAACAACGACCCCAACTTCACAGAGACCATTGATGAAAGCAAAAAGGAAT
GGCTCATTTGAAGGGGTGGCTACTTGGCTATGGGATAGGGAGGAGGAATTACTAGGGAGGAGAGAAAGGGACAAA
AGCACCTGCTTCATACTCTTGAGCACATCCTTAAATATCAGCACAAAGTTGGGGGAGGCAGGCAATGGAATATA
ATGGAATATTCTTGAGACTGATCACAAAAAAGACCTTTTAAATATTTCTTTATAGCTGAGTTTTCCCTT
CTGTATCAAAACAAAATAATACAAAAAATGCTTTTAGAGTTAAGCAATGGTTGAAATTTGTAGGTACTATCTGT
CTTATTTTGTGTGTGTTTAGAGGTGTTCTAAAGACCCGTGGTAACAGGGCAAGTTTTCTACGTTTTTAAGAGCCC
TTAGAACGTGGGTATTTTTTTCTTGAGAAAAGCTAATGCACCTACAGATGGCCCCAACATTCTCTTCCTTTTG
CTTCTAGTCAACCTTAATGGGCTGTTACAGAACTAGTTCGTGTTTATATACTATTTCTTTGATGTCTTATAAG
TCGGAAAAGAAAGGGGCAAAGAGAACCTATTATTGCCAGTTTTTAAGCAGAGCTCAATCTATGCCAGCTCTCTG
GCATCTGGGGTTCTGACTGATACCAGCAGTTGAAGGAAGAGAGTGCATGGCACCTGGTGTGTAACGACACAATC
AGCACAACCTGGAGAGAGGCATTAAAGAACCAGGGGAAGGTAGTTTGATTTTTTATTGAATCTACAAGCTAATATT
GTTCCACGTATGTAGTCTTAGACCAATAGCTGTAACCTATCAGCTGCAATACCATGGTGACCAGCTGTTACAAAAG
ATTTTTCTCTGTTTTATCTGAAACATACTGGATTTATATATGTATAAGCGCCTCAATGGGGGAATTAGAGCCAGAT
GTTATGATTTGTTTGCTCTTTTTCTTTTATAGTTATAGCAAAAATATGGATAATTTCTAGTGAATGCATAAATTA
GGTTGCGTTTTCTTATTTTGCTTTAAATCTCTGGTAGTTTTTCCACCCCTGTGACACAATCCTAATAGACAGTGTC
CTGTAAATGGACACAACACAATAAAGTCAAGTTATTATTGCTGTTACTCTGGATGATATGGAAAACACTGCCATA
TTTTAAATCAACTACTCCACGTGTTTTTCCATCCAATCACACTGCTGTGATTTCAGGGATCTTTCTTCTAAACCGG
ACACATTTGAACCTCAGGTTTCATCACAAACCTGGTACCTGTTGCTTCCCAGAGGATGGAGAAGTGATGTTAATCA
CACCTCTTAGTTTAAATCTGAAATCTTGACCCAGTTATTTAACAATAAATACCTCATTGATTATATTTAAAGTA
ATACACTTCCTGTAAACAAATGGGGACAATGCATCCAAAAATCTTTTTAAACAGATTACACAAAAATTATTTCC
AGAAAGGCTACCATTTATCATCATTATATTTCAAGCCTCTTATACCTAATAAGCACTTTCTAAAAAGTCTTGAGA
TCCCACCATTTCTGAGGAATTCAATATGATCACTTTTTCTTCTTTGCTGGGAGAGGTTAAGAGGCGGTTTCGAA
GGTATAGATGCTATTGTTCTGATGGCCCGGCTGAATAAAATGGAAATCTAGTTTGTTAGAATTATGCATTCTTT
TTCAAGATTCTCAGTGTGCCTAACTTATTGGAGCACATCAGTTTCTTGGGTAATGGAAAACATTACCTAGAGTTG
CCAGTGGCACATTACACAGTACAGAGCACATTCCAAAGGAGACATTGGACCAGTTAATTTCCATACAAGTCAAG
GTAACAGAACAAAAGGGAATCCTGATGCCCTTTTACCATTGCTGGTTGAGCTCAGGCACCTGTCATGGACACCCTT
AATTTTAAAAGGTTTTAATCATTCTTCTATAAAATACATTTAAATGGAAAAATACTTAATATCACTAAATATCA
GAACAATGTAACATTTACAAATGACATATTGAAAGCAAAGGCTGTTTTATTTAGCCAAGATGATTACCATTAGGA
GTTACTTTATGTATTGTTGAAAGCAAATTTAAACATGATGTTTTAGAAGTGTTCTGATTTTTAAACCTGGTTT
ACAGGTATTACTTCTGCACTTACCAAATAATGCCAGATGGAAATTTATTATTTCTTGCAATTCCCGTGATAGCTC
TGTTCTTTATGCATTGCTCAACACTTTCCCTTTTTTCCCAAATGAGTAGAGAATTAAAGCCACCCAAAACAGC
TTCTGCTACTAAAATGTTCTCATCCTTTCTCTCCCTCTCCTTTTCTGCCACAAAAGGTGAAAAATGAGATCCA
ATCCTCTCACAAAATTTCAAACCTAGGACACTGGAATGACTGCAGGGATCAGTGGTTCTCCCATATCACCATCA
ATTAAGACATATAGGACACTGTCTTCTTCAAGAGGGTTACAATGTGGCCATCAGACAGGAAACCAAACGGTGGA
TAAAGTATTAAGTAACATAAGTGCCAAATAAATGCTGGAAATCTTGACCTCTCCTTGGGATTATGGGTGTAACAAA
AATCCCTACATCTGTTTATGAAGGCCATATTAGTACATTTTAAATGGTAAATAATCTGTTTATGTGAAGAAAA
GAATTAAGTCTTTCTTCCAACCTCTCTCCTTGATAGCCTAGCACAGTGCAGCCTCCATAACCATGACATTCCCGC
CCAAGCTCTCAGTGCCTAATCTGCTTTGTGCTTACATCTCACAAAATCTTGACATCTTACATTCCAATACATT
ATCAAGCAAGCACAAAGTATGCTGGTAGTAGCTCTTTAAATAATATGTATAGACAACAACGACAAAAAATAG
ACTGTTTTTAAAGTTTCAGGGAAAGTTGGTGGCTGATTTAAAGTTGTGCAGGAAACATCTTCTGTGTATGAAGCAA
ATGTCGATGTTTTGAAAAGCTAGGAGATGACTTTGAATGAATGCAAGGTTAGTGAGATCCTAAGCTCTCAAAATA
GCATATTCCCTAGAGCTCAAGAAAGCTGGTCCAGGAGGTTGAAAAGCTATTTTGTGTTAAATTATTTCTGGC

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FIGURE 1277C

CCTTCTTAATATTTAAAAATGTATTTCCCCTTGTGGCTTTCAACCACCTGCTCAAAAAAAGAGACTTGTTACATG
AAAGTTTTTCATTAAAGAGCTGAAAACAAGAATTTAGAGAGCCATTCCCTAGAAAATGTCCTACTGCCCTGCATTG
ACAAACAAGCATCCTTTACTAACAAGAGCAGGAATTCAGAGGCACAAGAAAAGCATTGGCATGAGCCAAAGAGT
CTGTCTTAATGTTACTTTTGAAAATCTGCTGAGCGGCCACCATATGCAGGCTGAGAGCTGGGCACAGGCGAAGCC
ATTGGAAGCACTTCAGGAACAAGCACACAGCTGTGGGACTTGAACATGCAAGTGTTTCAGGTTGTGTCAAGAAGCT
TTTCTTTCCCTTCTATGATGGAATCTGTTCTTTTCTATCCTACTTTTTTCTCTCTTCTCTCCTCACCACATTATA
CCCTGCTCTTACGCAGTAAACGTTTTAATGGCCCGTTTATGTCTCATGCCTCCAAACAACACTGAATTTGAAACC
CCCCATTTTTTTCTTTTACCACCCCTGTTGAGCAATTTTCCCAAAAAAAGGGCAGCAATTATTAAATTGAATTCAA
GTTTCTAGATTTTACTAAGTTTTATTTTGTGAGGTTTTTTTAAATTTTTTTCAGTGAGCGTGGTGACTGCAGAGGTT
AGTGCTGTGAAAAGCTGGGCTAAATATTCTTTCTGTAAAGTCAAACAGGATTCCATCCCCTGTGAAATAACACAA
AATTTCACTCTCTAAAAGCAACAGCATGTAAACTAGAATGAAAGAAGGAAATTATGTACGTATGCCTAATATTCT
TTGTGAATGTCTTTCATTTAACTAAAATTATATTAGAAACCAGATTGATAAATAAAAAAATTCAAAGTAGTTTTAA
TTATCCT

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FIGURE 1278

MQAAPRAGCGAALLLWIVSSCLCRAWTAPSTSQKCDEPLVSGLPVAFSSSSSISGSYSPGYAKINKRGGAGGWS
PDSDDHYQWLQVDFGNRKQISAIATQGRYSSSDWVTQYRMLYSDTGRNWKPYPHQDGNIAWAFPGNINSDGVVRHEL
QHPHIIARYVRIVPLDWNAGEGRIGLRIEVYGCYWADVINFDPGHVVLPRFRNKKMKTLKDVIALNFKTSESEGI
LHGEQQQGDYITTELKAKLVLSNLGSLGPIYGHTSVMTGSLDDHHHWSVIERQGRSINLTDRSMQHFR
EFDYLDLDYEITFGGIPFSGKPSSSSSRKNFKGCMESINYNGVNIITDLARRKKLEPSNVGNLSFSCVEPYTVP
NATSYLEVPGRLNQDLFSVSFQFRTWNPNGLLVFSHFADNLGNVEIDLTESKVGVIHINITQTKMSQIDISSG
NDGQWHEVRFLAKENFAILTIDGDEASAVRTNSPLQVKTGEKYFFGGFLNQMNSSSHSVLQPSFQGCMLIQ
DDQLVNLYEVAQRKPGSFANVSIDMCAIIDRCVPHCEHGGKCSQTWDSFKCTCDETGYSGATCHNSIYEPSCE
HLGQTSNYYWIDPDGSGPLGPLKVYCNMTEDKVWTIVSHDLQMOTPVVGYNPEKYSVTQLVYSASMDQISAI
AEYCEQYVSYFCKMSRLLNTPDGSPYTWWVGKANEKHYYWGGSGPGIQKACGIERNCTDPKYCNCADADYK
KQAGFLSYKDHLVPSQVVVGDTDRQGSEAKLSVGPLRCQGDNRNYWNAASFNPSSYLHFSTFQGETSADISF
LTPWGVFLENMGKEDFIKLELKSATEVSFSFDVGNPVEIVVRSPPLNDDQWHRVTAERNVKQASLQVDR
QIRKAPTEGHTRLELYSQLFVGGAGGQQGFLGCIRSLRMNGVTLDLEERAKVTSGFISGCSGHCTSYGTNCE
GKCLERYHGYSCDCSNTAYDGTFCNKDVGAFFEEGMWLRYNFQAPATNARDSSSRVDNAPDQONSHPDLAQEE
IRFSFSTTKAPCILLYISSFTTDFLAVLVKPTGSLQIRYNLGGTREPYNIDVDHRNMANGQPHSVNITRHEKTIF
LKLDHYPVSYSYHLPSSSDTLFNSPKSLFLGKVIETGKIDQEIHKYNTPGFTGCLSRVQFNQIAPLKAALRQTNAS
AHVHIQGELVESNCGASPLTLSPMSSATDPWHLHDLSASADFPYNPGQGQAIRNGVNRNSAIIIGGVIAVVIFTI
LCTLVFLIRYMFRRHKGTYHTNEAKGAESAESAADAAMNNDPNFTETIDESKKEWLI

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FIGURE 1279

AAAAACAACCATTTCCTCTCTGCTGAGAGCCAGGGAAGGCGAGCTCTGCGCACACGGGCGTCCCTGCAGCAGCC
ACTCTGCTTTCCAGGACCGGCCAACTGCCCTGGAGGCATCCACACAGGGGCCAGGCAGCACAGAGGAGCTGTGA
ACCCGCTCCACACCGGCCACCCTGCCCGGAGCCTGGCACTCACAGCAGGCCGGTGCTAAGGAGTGTGGCGCGGGC
TCGACTCCCACTGCTGCCGGCCTCCCGAGTGACTCTGTTTTCCACTGCTGCAGGCGAGAAGAGGCACGCGCGGCA
CAGGCCGGCCTCCGCTTCCCGGGAAGACGGCGCACTCCTGGCCCTGGGTTCTTGCTGCTGCCACCCTCTGCTCC
CTGGGATGGGCCCCGAGGCGAGCAGCTTCAGCACAGGCCTGGCCCTGCTCCAGGTGCAGGAAGGAGGATAAGGCC
GGCCGAGAGGCGGCACACCTGGACCATCCCATGGGCCTCCGCCCGCGCCGCCCGAGGATGAGTGGTGATGTCC
TCTAGCCACCCTAGCAGCGTCGGCTCTCCCTGGACGTGCGGCCGCGGACTGGGACTTGGCTTTCTCCGGATAAG
CGGCGGCACCGGCGTCAGCGATGACCGTGCAGAGACTCGTGGCCGCGGCCGTGCTGGTGGCCCTGGTCTCACTCA
TCCTCAACAACGTGGCGGCCCTTCACCTCCAACCTGGGTGTGCCAGACGCTGGAGGATGGGCGCAGGCGCAGCGTGG
GGCTGTGGAGGTCTCTGCTGGCTGGTGACAGGACCGGGGAGGGCCGAGCCCTGGGGCCAGAGCCGGCCAGGTGG
ACGCACATGACTGTGAGGCGCTGGGCTGGGGCTCCGAGGCAGCCGGCTTCCAGGAGTCCCGAGGCACCGTCAAAC
TGCAGTTCGACATGATGCGCGCCTGCAACCTGGTGGCCACGGCCGCGCTCACCGCAGGCCAGCTCACCTTCCTCC
TGGGGCTGGTGGGCCTGCCCTGCTGTACCCGACGCCCCGTGCTGGGAGGAGGCCATGGCCGCTGCATTCCAAC
TGGCGAGTTTTGTCCTGGTCATCGGGCTCGTGACTTTCTACAGAATTGGCCATACACCAACCTGTCCTGGTCCTG
CTACCTGAACATTGGCGCCTGCCTTCTGGCCACGCTGGCGGCAGCCATGCTCATCTGGAACATTCTCCACAAGAG
GGAGGACTGCATGGCCCCCGGGTGATTGTATCAGCCGCTCCCTGACAGCGCGCTTTCGCCGTGGGCTGGACAA
TGACTACGTGGAGTCACCATGCTGAGTCGCCCTTCTCAGCGTTCCATCGATGCACACCTGCTATCGTGGAACAGC
CTAGAAACCAAGGGACTCCACCACCAAGTCACTTCCCCTGCTCGTGACAGGACACGGGATGAGTCTGGGTGACCT
CTGCGCCATGCGTGCGAGACACGTGTGCGTTTACTGTTATGTGGTCAATATGTCTGTACGTGTCTGGGCCAACC
TCGTTCTGCCCTCCAGCTTTCCTGGTTAGCGCAACGCGGCTCCACGACCACACGCACTTCAGGGTGGAAGCTGGAA
GCTGAGACACAGGTTAGGTGGCGCAGGCTGCCCTGCGCTCCGCTTTGCTTTGGGATTAATTTATTCTGCATCTG
CTGAGAGGGGCACCCAGCCATATCTTACACTTTGGTAAAGCAGAAAACCAGGAAAATTTCTTAAATATCCAC
AATATTCCCTTGAGTGAGTCAGAATCTATAGCCGGTTAGTGATGGTTTCAGGCAGAATCGTGTTCTGTCTGTTTT
GCTCGATTCTTTCCTAAGTTAAATAAATGCAAGCCTCTGAACTTCTGTCTATAAAAAAAAAAAAAAAAAA

1413/2682
FIGURE 1280

MTVQRLVAAAVLVALVSLILNNVAAFTSNWVCQTLEDGRRRSVGLWRSCWLVDRTTRGGPSPGARAGQVDAHDCEA
LGWGSEAAGFQESRGTVKLFQDMMRACNLVATAALTAGQLTFLLGLVGLPLLSPDAPCWEEMAAAFQLASFVLV
IGLVTFYRIGHTPTCPGPAT

1414/2682
FIGURE 1281

GCCCCCGCGCCCCGACCAGCCCGGCCTCGGGCAGCCACTCACCGGTGTCCCCGTCCGCGTCCTTCTCCCCGG
GTCCCCGGCCATGGCGCTGAGTGAACCCATCCTGCCGTCTTCTCCACTTTCGCCAGCCCGTGCCGCGAGCGCGGC
CTGCAGGAGCGCTGGCCGCGCGCCGAACCCGAGTCCGGCGGCACCGACGACGACCTCAACAGCGTGCTGGACTTC
ATCCTGTCCATGGGGCTGGATGGCCTGGGCGCCGAGGCCGCCCGGAGCCGCCGCCGCCGCCCGCCGCTGCG
TTCTATTACCCGAACCCGGCGCGCCCCGCCCTACAGCGCCCCCGCGGTGGCCTGGTGTCTGAGCTGCTGCGA
CCCGAGCTGGATGCGCCGCTGGGGCCCGCACTGCACGGCCGCTTCTGTCTGGCGCCGCCGCCGCCCTGGTCAAG
GCCGAGCCCCCTGAAGCGGACGGCGGGCGGGCTACGGCTGCGCCCCCGGGCTGACCCGTGGACCGCGCGGCCTC
AAGCGCGAGGGCGCCCCGGGCCCGGGCGGCTTCGTGCATGCGAGGTCCCGGGGGCCGCCGCCGCCGCCCGAC
ACACCGCCGCTCAGCCCCGACGGCCCCGCGCGCCTGCCCGCGCCCGGTCCGCGCGCCTCCTTCCCGCCGCTTTC
GGTGGCCCTGGTTTCGGCGCGCCCGGGCCCGGCCTGCATTACGCGCCGCTTGCGCCCCAGCCTTCGGTCTCTTC
GACGACGCGGCCGCCGCCGCGGCAGCCCTGGGCCTGGCGCCCCCGCCGCCCGCGGTCTCCTCACGCCGCTGCG
TCCCCGCTGGAGCTGCTGGAGGCCAAGCCAAAGCGCGGCCGCCGCTCTTGGCCCCGAAACGCACCGCCACTCAC
ACCTGCAGCTACGCGGGCTGCGGCAAGACCTACACCAAGAGTTCGCATCTGAAGGCGCATCTGCGCACGCACACA
GGTGAGAAGCCCTACCACTGCAACTGGGACGGCTGCGGCTGGAAGTTTGC GCGCTCAGACGAGCTCACGCGCCAC
TACCGAAAGCACACGGGCCACCGGCCATTCCAGTGCCATCTGTGCGATCGTGCCTTTTCGCGCTCCGATCACCTG
GCGCTGCACATGAAACGGCACATGTACCCGGGACGCCCCCGCCACCTGCGGCGGGCCGTGGCGGGTCCCACGCG
CCGGGCGCGGCCCCCTCCCAAATGTGACTGGTATTTATTGGACCCAGAGAACC GGCGCGGGCACAGCGTGGCTA
CAGAGGGTCTCCCTCGATGACGACGACGACGACGCCACCACCCAGCCCCGTCTGTGACTGAAGGCCCGGTGGG
AAAAGACCACGATCCTCCTTGACGAGTTTTGTTTTTCAAATGGTGCAATAATTTAAGTGGCATCTTCTCTCCCA
CCGGGTCTACACTAGAGGATCGAGGCTTGTGATGCCTTGTGAGAAATAAGGGCCTTAATTTGTACTGTCTGCGGC
ATTTTTTATAATATTGTATATAGTGACTGACAAATATTGTATTACTGTACATAGAGAGACAGGTGGGCATTTTTG
GGCTACCTGGTTTCGTTTTTTATAAGATTTTGCTGGGTTGGTTTTTTTTTAATTAAAAAGTTTTGCATCTTTT

1415/2682
FIGURE 1282

MALSEPILPSFSTFASPCRERGLQERWPRAEPESGGTDDDLNSVLDFILSMGLDGLGAEAAPEPPPPPPPPAFYY
PEPGAPPPYSAPAGGLVSELLRPELDAPLGPALHGRFLLAPPGRLVKAEPPEADGGGGYGCAFGLTRGPRGLKRE
GAPGPAASCMRGPGGRPPPPDTPPLSPDGPAPLPAPGPRASFPPFGGPGFGAPGPGGLHYAPPAPPAFGLFDDA
AAAAAALGLAPPAARGLLTPPASPLELLEAKPKRGRRSWPRKRTATHTCSYAGCGKTYTKSSHLKAHLRHTGK
PYHCNWDGCGWKFARSDELTRHYRKHTGHRPFQCHLCDRAFSRSDHLALHMKRHM

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FIGURE 1283A

GGTCCCCGGCTGCCCGCAGCCCGCTCGCGGCGCTTCTCCGGCCCCGGCTCCTTCTCCGCTCGTTAACGTCGCCAAC
CCCCCCCACCCCTCATATCTCTCTCCACCCACCAACCGCCCCCGCTCCTTCTCGCCGCTCGAGTCCGCTTGG
GGGAAAACCTTCAAAGAGCCGGATCGCAGGCTCCCTGCCTACTCCCCCACCAGGGATTTTCAGACTAGACGCTTGAA
GCAAAGCTGCCATCCCAGAAGACGACATGCTCTCAGCAACCCCCCTGTATGGGAACGTTACAGCTGGATGAACA
GCGAGAGGGTCCGCATGTGTGGGGCGAGCGAAGACAGGAAAATCCTTGTAATGATGGTGACGCTTCAAAAGCCA
GACTGGAAGTGAAGGAAGAGAATCCCTTGAACCACAACGTGGTGGATGCGAGCACGGCCCATAGGATCGATGGCC
TGGCAGCACTGAGCATGGACCGCACTGGCCTGATCCGGGAAGGGCTGCGGGTCCCGGGAAACATCGTCTATTCTA
GCTTGTGTGGACTGGGCTCAGAGAAAAGTCCGGGAGGCTGCCACAAGCACTCTAGGTGGCCTTGGGTTTTCTTCGG
AAAGAAATCCAGAGATGCAGTTCAAACCGAATACACCCGAGACAGTGGAGGCTTCTGCCGTCTCTGGAACCC
CAAATGGCTTCAGTGCTATATACAAAACACCGCCTGGAATACAAAAAAGTGCTGTAGCCACAGCAGAAGCGCTGG
GCTTGGACAGGCCTGCCAGCGACAAACAGAGCCCTCTCAACATCAATGGTGCTAGTTATCTGCGGCTGCCCTGGG
TCAATCCTTACATGGAGGGTGCCAGCGCACAGCCCTCTCAACATCAATGGTGCTAGTTATCTGCGGCTGCCCTGGG
TGTACAAGGCCTTGCTACCTCAGCAGTCTTACAGCTTGGCCAGCCGCTGTATTCTCCAGTCTGCACCAATGGGG
AGCGCTTTCTCTACCTGCCGCCACCTCACTACGTGGTCCCCACATCCCATCGTCCTTGGCATCACCCATGAGGC
TCTCGACACCTTCGGCCTCCCCAGCCATCCCGCCTCTCGTCCATTGCGCAGACAAAAGCCTCCCGTGGAAGATGG
GCGTCAGCCCTGGGAATCCTGTTGATTCCACGCCTATCCTCACATCCAGAACAGTAAGCAGCCAGGGTTCCCT
CTGCCAAGGCGGTACCAAGTGGCCTGCCGGGGGACACAGCTCTCCTGTTGCCCCCTCGCCTCGGCCGTACCCC
GAGTCCACCTTCCCACCCAGCCTGCTGCAGACACCTACTCGGAGTTCCACAAGCACTATGCCAGGATCTCCACCT
CTCCTTCAGTTGCCCTGTCAAAGCCATACATGACAGTTAGCAGCGAGTTCCCCGCGGCCAGGCTCTCCAATGGCA
AGTATCCCAAGGCTCCGGAAGGGGGCGAAGGTGCCAGCCAGTGCCCGGGCATGCCCGGAAGACAGCGGTTCAAG
ACAGAAAAGACGGCAGCTCACCTCCTCTGTTGGAGAAGCAGACCGTTACCAAAGACGTCACAGATAAGCCACTAG
ACTTGTCTTCTAAAGTGGTGGATGTAGATGCTTCCAAAGCTGACCACATGAAAAAGATGGCTCCACGGTCTCTGG
TTCACAGCAGGGCTGGAAGTGGCTTAGTGCTCTCCGGAAGTGAGATTCCGAAAGAAACACTATCTCCTCCAGGAA
ATGGTTGTGCTATCTATAGATCTGAAATCATCAGCACTGCTCCCTCATCCTGGGTGGTGCCCGGGCCAAGTCCTA
ACGAAGAGAACAATGGCAAAAGCATGTGCTGAAAAACAAGGCATTGGACTGGGCGATACCACAGCAGCGGAGTT
CATCATGCCCCGCGATGGGCGGCACCGATGCTGTATCACTAACGTTTCAGGGTCAGTGTGAGTGCAGGCCGCC
CAGCCTCCGCATCACCCGCCCCCAATGCCAATGCAGATGGCACCAAAACCAGCAGGAGCTCTGTAGAAACCACAC
CATCCGTTATTTCAGCACGTGGGCCAGCCCCCGGCCACTCCTGCCAAGCACAGTAGCAGCACCAGCAGCAAGGGCG
CCAAAGCCAGCAACCCAGAACCGAGTTTCAAAGCAAACGAGAACGGCCTTCCACCAAGCTCTATATTTCTGTCTC
CAAATGAGGCATTTCAGGTCCCCACCAATTCCCTACCCAGGAGTTACCTCCCTTACCCAGCCCCTGAGGGCATTG
CTGTAAGTCCCCTCTCCTTACATGGCAAAGGACCTGTCTACCTCACCAGTTTTGTTACCCAATGGCAGTCTGT
TTCCTGGGCACCTTGCCCCAAAGCCTGGGCTGCCCTATGGGCTTCCACCGGCCGTCCAGAGTTTGTGACCTACC
AAGATGCCCTGGGGTTGGGCATGGTGCATCCCATGTTGATACCACACACGCCCATAGAGATTACTAAAGAGGAGA
AACCAGAGAGGAGATCCCGGTCCCATGAGAGAGCCGTTACGAGGACCCAACCCTCCGGAATCGGTTTTCCGAGA
TTTTGGAAACTAGCAGCACCAAGTTACATCCAGATGTCCCCACCGACAAGAACCTAAAGCCGAACCCCAACTGGA
ATCAAGGGAAGACTGTTGTCAAAGCGACAAGCTTGTCTACGTAGACCTTCTCCGAGAAGAACCAGATGCTAAAA
CTGACACAAACGTGTCCAAACCCAGCTTTCAGCAGAGAGTGTGGCCAGAGCGCTGAGCCCCCAAGCCCTCAG
TTGAGCCGGCCCTGCAGCAGCACCGTGATTTATCGCCCTGAGAGAGGAGTTGGGGCGCATCAGTGACTTCCACG
AAACTTATACTTTCAAACAGCCAGTCTTCACCGTAAGCAAGGACAGTGTCTGGCAGGTACCAACAAAGAGAACC
TAGGGTTGCCAGTCTCGACTCCATTCTGGAGCCACCTCTGGGGAGCGATGGCCCTGCTGTAACTTTTGGTAAAA
CCCAAGAGGATCCCAACCATTTTGTGTGGGCAGTGCCCCACCAAGTGTGGATGTGACCCCCACCTATACCAAAG
ATGGAGCTGATGAGGCTGAATCAAATGATGGCAAAGTCTGAAACCGAAGCCATCTAAGCTGGCAAAGAGAATCG
CCAATCAGCGGGTTACGTGGGTGACCGATTCAAATGTGTCACTACCGAAGTGTATGCAGATTCCAGTCAGCTCA
GCCGGGAGCAACGGGCATTGCAGATGGAAGGATTACAAGAGGACAGTATTTTATGTCTACCCGTGCTTACTGTG
AGCGTGCAATGATGCGCTTCTCAGAGTTGGAGATGAAAGAAAGAGAAGGTGGCCACCAGCAACCAAAGACTCCG
AGATGTGCAAAATTCAGCCCAGCCGACTGGGAAAGGTTGAAAGGAAATCAGGACAAAAAGCCAAAGTCGGTCACCC
TGGAGGAGGCCATTGCAGAACAGAACGAAAGTGAGAGATGCGAGTATAGTGTGGAAACAAGCACCGTGATCCCT
TTGAAGCCCCAGAGGACAAAGATCTTCTGTGGAGAAGTACTTTGTGGAGAGGCAGCCTGTGAGCGAGCCTCCCC

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FIGURE 1283B

CAGACCAGGTGGCCTCGGACATGCCTCACAGCCCCACCTCCGGGTGGACAGGAAACGCAAAGTCTCAGGTGACA
SCAGCCACACTGAGACCACTGCGGAGGAGGTGCCAGAGGACCTCTGCTGAAAGCCAAACGCCGACGAGTCTCTA
AAGGGCTCCATCCTAAAAACAACGCCACTTGCTGCACCTTAGAGAACGATGGGAGCAGCAGGTGTGGCAGCAG
ATGGCAAACCTGGCCGGCAAAGCAGGAAGGAAGTGACCCAGGCCACTCAGCCTGAGGCCATTCTCAGGGGACTA
ATCACTGAAGAGAAACCTGGCAGGAAAAGGGCAGAGGCCAAAGGCAACAGAAGCTGGTTCGGAAGAGTCTCTTA
TCAGTGACAATGAACAAGGCTTGCCCTGTGTCTCCGGCTCTCCGCCCATGAAGAGTCTTTCATCCACCAGTG
AGCGGGCAAAAAGCAGGCTCAGCCAAGCTGCGCACCAGCCTCCAGGCCGCTGCCAAACAGCAGAAAATTAAAG
AAAACCAGAAGACAGATGTGCTGTGTGCAGACGAAGAAGAGGATTGCCAGGCTGCCTCCCTGCTGCAGAAATACA
GACAACAGCGAGAAGCCATCCGGGAAGAGACTGTGCAAAACCAAACACTTGATCCCTCAGGAGTCCAGGCGGG
TGCCACTGACAGGGGAATACTACGTGGAGAATGCCGATGGCAAGGTGACTGTCCGGAGATTGAGAAAGCGGC
AGCCCAAGTTCGGACTATGATCTGTCAACAGCCAAGCAGGAGCCAAAGCCCTTCGACCGCTTGACGCAACTGC
CAGCCTCCCAGTCCACACAGCTGCCATGCTCAAGTTCCCTCAGGAGACCACCCAGTCTCGCCCTATGCCG
GAAGCACGGAGACTTATTGTCAATAAGAACGCTGGCGAGACCCTTCTGCAGCGGGCAGCCAGGCTTGGCTATG
GAAGTGGTCTGTACTGCTTAGAGAAACAAGATTGTGATGTAAATCATCGGGACAACGCAGGTTACTGCGCCC
TGCATGAAGCTTGTGCTAGGGGCTGGCTCAACATTGTGCGACACCTCCTTGAATATGGCGCTGATGTCAACTGTA
GTGCCCAGGATGGAACCAGGCCTCTGCACGATGCTGTTGAGAACGATCACTTGGAAATTGTCCGACTACTTCTCT
CTTATGGTGTGACCCCCACCTTGGCTACGTACTCAGGTAGAACCATCATGAAAATGACCCACAGTGAACCTATGG
AAAAGTTCTTAACAGATTATTTAAATGACCTCCAGGGTCGCAATGATGATGACGCCAGTGGCACTTGGGACTTCT
ATGGCAGCTCTGTTTGTGAACCAGATGATGAAAGTGGCTATGATGTTTTAGCCAACCCCCCAGGACCAGAAGACC
AGGATGATGATGACGATGCCTATAGCGATGTGTTGAATTTGAATTTTCAGAGACCCCCCTCTTACCGTGTTATA
ACATCCAAGTATCTGTGGCTCAGGGGCCACGAAACTGGCTACTGCTTTCGGATGTCTTAAGAAATTGAAAATGT
CCTCCCGCATATTTTCGCTGCAATTTTCCAAACGTGGAATTTGTACCATTTGCAGAGGCAGAAATTTATCGGCAGG
TTTCTGCAAGTCTCTTGTCTCTTGCTCCAAAGACCTGGAAGCCTTCAACCCTGAAAGTAAGGAGCTGTTAGATC
TGGTGAATTACGAACGAAATTCAGACTCTGCTGGGCTCCTCTGTAGAGTGGCTCCACCCCAAGTATCTGGCCT
CAGACAACACTACTGGTGAGCAAGCTGGACCCACCATGTACAGTGTGTTATAGTGTAAATCCTTGTGCATATGTGTC
ATAATACAACATATTTCTGTAAAGAAAGGACACTATTACATATGAAAATATCTCTTCTTTATATAAGAGAAATTAC
TCCAGTCAGAAGGACTTAGAAACATGTTTTTTTCTTTTAAACTTTTAAGTCAGTTTTTATGAAGTTGTTATAAT
GTTTCTTTACTTTTCAATGCACACATGCTTTGGGATACGTTTGTGTTTTACTTGGAAACATTTGTTTCTTTTCTTTT
TTAAGGAGAAAAAAAATGAGTAAAGGAGCTCCACACTTTGACTTAATTTATACAAAGCTCTGATGACAGGCC
ATGACTGTAGAGTGGTCAGAACTGTGTGGTTGGTTTGGAGGAGCGAATTCGGGGAAGGCACCTTGGTGTATATACT
TTGTTTGTGTTTACAGAGTACCTGCTCGGGCCAGGTAAATGCTATTGGATGTAATCCAGTAGTGTGTAATATAAAT
TCAAACCATATCCACACACAACAATAATTGTATGAACTTTTATATCCTAATTTAAAGCTGTGAAATTAGTTT
TCACGCATCAAACCGGATTGTTTATATGTTTAAACATTTTATGCTCTTATTTAAAGAAGACTTTGAGCTATTTT
TTCTGTACCCTGTAAATATTGAAAATAACATAATATGTTGAGGTTGCTTGGAATGTACATAAACTAAAT
TTCTGAATCGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1284

MPPEARRLIVSKNAGETLLQRAARLGYE EVVLYCLENKICDVNHRDNAGYCALHEACARGWLNIVRHLLEYGADV
NCSAQDGT RPLHDAVENDHLEIVRLLSYGADPTLATYSGRTIMKMT HSELMERFLTDYLN DLQGRNDDASGTW
DFYGSSVCEPDDESGYDVLANPPGPEDQDDDDAYS DVFEFEFSETPLLPCYNIQVSVAQG

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FIGURE 1285

GGCACGAGGGCGGGTGGGAAGCCGTGTCTCGCAGTCGTGGACTCGTGCAGCTGGGGCGTCCGCAGCCGCTCGTCA
CCCCGCTGATGCTGTTTCTGGCGTTGGGCAGCCCGTGGGCGGTGCAACTGCCTCTCTGCGGAAGGAGGACTGCAT
TGTGTGCGGCCGCCGCGCTCCGAGGTCCCCGGGCCTCTGTCTCCCGGGCGTCTCCAGCAGCGGGCCTTCGGGGC
CGGTAGCCGGCTGGAGTACGGGGCCTTCGGGAGCCGCGCGCCTTCTCCGGCGTCCGGGTGAGCGCAGATCCCTG
TTTATTGGGAAGGATATGTTTCGATTCTTAAATACGCCATCTGACAAATCAGAAGATGGAAGGCTAATTTATACTG
GCAATATGGCCCCGAGCAGTGTGTTGGTGTGAAATGTTTCTTATTCTACGAGTCTGATTGGCCTTACATTTCTGC
CATACTTTTACACAAAATAATGCTATTTCTGAAAGTGTGCCTCTGCCTATTCAAATCATATTCTATGGCATCA
TGGGAAGCTTTACGGTGATCACCCAGTGCTGCTTCACTTTATTACAAAAGGCTATGTCATTGATTGTACCATG
AGGCCACAACAGACACTTATAAAGCCATTACCTACAATGCTATGCTTGCAGAAACGAGTACAGTGTTCACCAGA
ATGATGTGAAGATTCCAGATGCTAAACATGTATTTACCACATTTTATGCTAAAACAAAATCACTGTTAGTTAATC
CAGTGCTCTTTCCAAACCGTGAAGACTATATCCATCTAATGGGTTATGACAAAGAAGAATTTATTTTGTATATGG
AAGAAACCAAGTGAAGAGAAACGGCATAAAGATGACAAATGAGCCCTTTTGTAGTGTTCGTGCTCAAATGTGATT
TACGTTTTAATGTATAATAATAAAATTGCCTTTTGCATTCCGTTAGTGAAGTATTGTTAAAAATAATTTGAAATT
ATCAAAGCTTTTAATTTCCAGAGAATGATGTTTGTATAATAAAACAAGCTATGTTTGAAAACCAAATGTAGT
ATCTACCATTCTGTGTTTTAGAAAGGTATGTGAATAAATATGTTATGCTAGTATAAGAGTTCTGTGTTACTGTGG
TTGACTCTAAACTGGGGATCTGATGTCAGTAGCAAATGGGAGAGTTGCTTTATTCTTTGTGTATGGATTTTCTA
AGTGATATAAATATTTTCCGACATTAAAAGACATTTTCTCTTTGAGGAAGACACAGTCATAGGTGGTGCGGAGCTG
TGGTCCACCTGCTCCTGCTCCTGACTCACTGCTCTTTGCTGTTGCCTGAGGACCAAGTCTGTCAGGAAGCTGGCT
AGGAAGCCTTGCAGCAGCCATGGCTTTTAAACATACCAGAAAAACACCCGTGGAGTCAGAGGTGGCAATTCACCG
AATTCATATCACTCTAACGAGTTGCAACGTAAAATCCCTGGATAAGGTGTGTGCTGACTTGATCTGAGGAGCAAA
GGAAAAGAATCAGTGAAAGGACCAGTTTGAATGCCTACCAAGACTTTGAGAATCACTACAAGAAAACTTACGGT
GAAGGTTCTAAGGCATGGGATCGTTTCCAGATGAGAATCCACAAGCGACTCATTGACTTGCGCAGTCCCTCAGATA
GTTAAGCAGATTACTTCCATCAGTATTGAGCCAGGAGTTGAGATGGAAGTCACCATTGCAAATGCCTAAGTCAAC
TGTTTTTCATAAATTGATTACCAAGTTGTTAAAAAATTTCAAAAAACCGCAAAATTTCAAGAAATTCACAAATTAT
GGGAGCAGTTTTAAGTCTTCTTTGGTTCAGAACACAGGTTTTTGCCTAACCCCTGGCATGATTGCCCATAGAAC
ATACATGTACAGTTGAACTGGTGGTTAGCTATACGGGAAATGGTAAGTAGTGTGCTTTCAGTATCTTAATTTGT
TTCTGCAACTGTGCACTCCTCCCTTGGTGGCACCCATATGGGTGTAGGAAAACCACTGTTATTAAACAGGTGAAAA
ATAAAAAATTTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1286

MARAVFGVKCFSYSTSLIGLTFILPYIFTQNNAISESVPLPIQIIFYGIMGSFTVITPVLLHFITKGYVIRLYHEA
TTDTYKAITYNAMLAETSTVFHQNDVKIPDAKHVFTTFYAKTKSLLVNPVLFNREDYIHLMGYDKEEFILYMEE
TSEKRRHKDDK

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FIGURE 1287A

TTGGGAAACCCCTACCTGTCTGTACCTGTAGGTCTTTTCTCTGGGGTCTGGAAGAAGAATCCTTCAATATCTTGC
CTTCTGGTAATCTGAGAGCAGGGCGAGAAAAGGAAGATCAGAGTTCCACCCTTAAATCTGTAGGTTTTCACTCCC
CCACTCTCCTTTGCAGTCCCGTGGAGTCTCCATCTGAGCCCTTTCCTAGTCCAGGCATCCCCGATGTTGGTGGATG
GCCCATCTGAGCGGCCAGCCCTGTGCTTCTTGCTGTTGGCTGTGGCAATGTCTTTCTTCGGCTCAGCTCTATCCA
TAGATGAAACACGGGCGCATCTGTTGTTGAAAGAAAAGATGATGCGGCTCGGGGGGCGGCTGGTGCTGAACACCA
AGGAGGAGCTGGCCAATGAGAGGCTCATGACGCTCAAAATCGCTGAGATGAAGGAGGCCATGAGGACCCTGATAT
TCCCACCCAGCATGCACCTTTTCCAGGCCAAGCATCTCATTGAGAGAAGTCAAGTGTTTAAATATTCTAAGGATGA
TGCCAAAAGGGGCTGCCTTGACCTCCATGACATTGGCATCGTGAATATGGACTGGCTGGTGAGGAATGTCACCT
ACAGGCCTCACTGCCACATCTGTTTACCCCAAGGGGGATCATGCAGTTCAGATTTGCTCACCCAACTCCCCGTC
CATCAGAAAAATGTTCCAAGTGGATTCTGCTGGAGGATTATCGGAAGCGGGTGCAGAACGTCAGTGGTTGATG
ACAGCTTGCTGAGGAATTTCACTCTGGTGACCCAGCACCCGGAGGTGATTTACACAAACCAAAATGTTGTCTGGT
CGAAATTTGAAACCATCTTCTTACCATCTCTGGTCTCATCCATTACGCACCAGTGTTTCAGAGACTATGTCTTCC
GGAGCATGCAGGAGTTCTACGAGGACAACGTGCTCTACATGGAGATCAGAGCCAGGCTGCTGCCGGTGTATGAGC
TCAGTGAGAGACCATGACGAAGAGTGGTCACTGAAGACTTACCAGGAAGTAGCTCAGAAGTTTGTGGAAACTC
ACCCTGAGTTTATTGGAATCAAAATCATTATTCGGATCACAGATCCAAAGATGTGGCTGTCTCGCAGAATCCA
TCCGAATGGCCATGGGGCTCCGAATCAAGTTCCCCACGGTGGTGGCAGGGTTTGACCTGGTGGGGCATGAGGACA
CTGGCCACTCCTTGCGTGACTACAAGGAAGCTCTGATGATCCCCGCCAAGGATGGCGTTAAGCTGCCTTACTTCT
TCCACGCCGGAGAAACAGACTGGCAGGGTACTTCCATAGACAGGAACATTCTGGATGCTCTGATGCTGAACACTA
CCAGAATCGGCCATGGATTGTCTTTGAGCAAACACCCCGCAGTCAGGACTTACTCCTGGAAAAAGGACATCCCCA
TAGAAGTCTGTCCCATCTCTAACCAGGTGCTGAAACTGGTGTCTGACTTGAGGAACCACCCTGTAGCCACTCTGA
TGGCCACTGGGCACCCCATGGTGATCAGCTCTGATGACCCAGCTATGTTTGGTGCCAAAGGCTTGTCTCTATGATT
TCTATGAGGTCTTCATGGGCATTGGGGGGATGAAGGCTGACCTGAGGACCCTCAAACAGCTGGCCATGAACCTCTA
TCAAGTACAGTACCCTGTTGGAGAGTGAGAAAAATACTTTCATGGAAATCTGGAAGAAGAGATGGGATAAGTTCA
TAGCAGATGTGGCTACAAAGTGAGGAGAAGCTAGCCAGCCCTCTACAAGCTGTCTTCTTGCACACGCTGTCACTT
CCTCTCACTCGTTCTTGAATCAGCTCCATGTGCCCATGAAATCAATGGCCTCTGTATGGAGCGACCCTGTGAGAA
GCACCTGGCTGGCTGAGCAAATTCATCCTCTGGAAATATTCTCTCTCAGCCACAGTGACATTGACCCTCTTGGTT
TTCTCCTCTCTCTGCGCATTTTCTTCCAGTTTCCCTATTTTCAAGTCTTCTCCTCTCTCTGATCTCTGTGCTGTT
CCTCAGGACTCAGTCTTGGGCTCTCTTCTATTCTGGTCTCTTTATTTTTTTATTTTTTGTATTTTTTCGAGATGGA
GTTTTGCTCTTGTGGCCAGGCTGGAGTACAATGGTGCGATCTCAGCTCAGTGCAACCTCCGCCACCCGGGTCA
GGCAATTTCTTTCATCAGCCTCCCGAGTAGTTGGAATTATAGGCATGTGCCACCACACCCAGCTGATTTTTGCA
TTTTTAGTAGAGACAGGTTTTTACCATGTTGGCGAGCTGGTATCCAACCTCTTGACCTCAGGTGATCCACTCGCCC
CTTGGCTCCCAAAGTGCTGGAATTACAGGCGTTAGCCACCATGCCTGGCCTATTCTGGTCTCTTTAACTCTCTCC
TCTTTATTTCTCTCTCTCTCTGTACACTTTTCCCTGGGTGGTCTCATCCATTCTTTGCTTTTTTCATACCATTTA
TTTGTTAATGATTCCACATTTATTTATGCACTTGGAGAGCTCACAGGAATCTCAGAAACTGATGAGGTACAATT
CTGAACCCTCAGTCTCTTCCCTTTAAACCTTTCTTTTTCTCTACTTTAATTTTTCTAAAGAGTGTCTTGCTATGT
TGCCCAGGCTGGTCTCCAACCTCAAGTGATCCTCCTGCCGAGTCTCCCGAAGTGCTGGGATTACTGACATGAGCC
ACCACACTCAGCCCTTTAAACCTTTCCCTGGCCTTTCCCATAGCTGGTGAAGGACACCTCCATCCATTCCACGCA
GTTGCTCAAAGCAGAAATTTTCACTGCAAGTCTTGATGCTGCGCCGTCCCCCACTCCCTACATCAGAACGCATCC
CTCATCTGGACTCCAGCGGTGGCTTCTTGATGCTGCGCGGTCCCCCACTCCCTACATCAGAAATGCATCCCGCATC
CAGACTCCAGCGGTGGTGCTCTACCTGCACGCTGTTGCCAAGTCCAAGCTACCATACTCCTGCCTGAGCTATGAC
AACAGCCTCCTCACTGATCTCCCTTTTCTTCCCTTTGCCTCCTCCAGCTCATTTTTACAGTGATGAATGACATT
TTGTTTGTGTTGTTTTGTTTTGTTTTGAGATGGAGTCTCGTTCTGTTGCCAGGGTGGAGTGACGCGGTGCGATCTC
GGCTCACTGCAACTTCCACTCCCGGGTTCAAGCGGATTCTCGTGCTCAGCTCCTGAGTAGCTGGGATTACAGG
CATGCACCACCATGCCCGGATAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCAGGCTGGTCT
CGAACACCTGACTTCGTGGTCCACCCGCCTTCGGCCTCCCAAAGCACTGGGATTACAGGCGTGAGCCACCCGGCC
TGGCCTAGAATGACTTTTTAAAGATCAAATTAATCAGGTCACTCCTTTGCTTACAACGCAGTGCGTTTTAGAGGT
ACACCCCATGTCTCCACAGGGCATAACAGCATCCGATTTAATCTGGATCCATTCCGGCGCTTCTCTCCAGTCAC
CCAGAGGGCCCCAACCCCGCGGCCCTTTCTTCTCAAATGTCTCGGCTCTATACCGTGCCTGGGTCTTTTCTC

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FIGURE 1287B

TTTCTCTCTGCCTGGAACATTCTTTCCCTTTTGTCTTGCCCACTCCTGTTTACCCTTCAAGTTTCAAGTT
CATGTCACTGTCTCAGAGAGGTTTTCTGTGCTCGCCCTGTTTCTCTCAGGAAGCCTTGCTCTTTTCCATCATGC
CTCTAATCACAGCTTATAATCGGATATTTATTTCTGTGTCTACAGTCTTGCCCTGCCAGACTGTAAGCCCCATGT
GGGCAGGCGCTCATGATTGTTTCTGATTGTTTACGCATGCTGCTAACCAGAGCCTGGGCCCAAAGCTAGTTAG
TACTCAATAAACAATGCATTGAAAAAAAAAAAAAAAAAXTA

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FIGURE 1288

MLVDGPSEPALCFLLAVAMSFFGSALSIDETRAHLLLKEKMMRLGGRLVLNTKEELANERLMTLKIAEMKEAM
RTLIFPPSMHFFQAKHLIERSQVFNILRMMPKGAALHLHDIGIVTMDWLVRNVTYRPHCHICFTPRGIMQFRFAH
PTPRPSEKCSKWILLEDYRKRQNVTEFDDSLRNFTLVTQHPEVIYTNQNVVWSKFETIFFTISGLIHYAPVFR
DYVFRSMQEFYEDNVLYMEIRARLLPVYELSGEHHDEEWSVKTYQEVAKFVETHPEFIGIKIISDHRSKDVAV
FIRMAMGLRIKFPTVVAGFDLVGHEDTGHSLRDYKEALMIPAKDGVKLPYFFHAGETDWQGTSIDRNILDAL
IRIGHGFALS KHPAVRTYSWKDIPIEVCPISNOVLKLVSDLRNHPVATLMATGHMPVISSDDPAMFGAKG
OFYEVFMGIGGMKADLRTLKQLAMNSIKYSTLLESEKNTFMEIWKKRWDKFIADVATK

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FIGURE 1289

CCAAGCTCCAGCTGTTTGTCAAGGCGAGTGAGGACGGGGAGAGCGTGGGTCACTGCCCCCTCCTGCCAGCGGTCTT
CATGGTCCTGCTCCTCAAGGCGGTACCTTTACCCCTCACCACGGTGGACACGCGCAGGTCCCCGGACGTGCTGAA
GGACTTCGCCCCCGGCTCGCAGCTGCCCATCCTGCTCTATGACAGCGACGCCAAGACAGACACGCTGCAGATCGA
GGACTTTCTGGAGGAGACGCTGGGGCCGCCGACTTCCCCAGCCTGGCGCCTCGTTACAGGGAGTCCAACACCGC
CGGCAACGACGTTTTCCACAAGTTCTCCGCGTTTCATCAAGAACCCGGTGCCCGCGCAGGACGAAGCCCTGTACCA
GCAGCTGCTGCGCGCCCTCGCCAGGCTGGACAGCTACCTGCGCGCGCCCTGGAGCACGAGCTGGCGGGGGAGCC
GCAGCTGCGCGAGTCCCGCCGCCGCTTCCTGGACGGCGACAGGCTCACGCTGGCCGACTGCAGCCTCCTGCCAA
GCTGCACATCGTCGACACGGTGTGCGCGCACTTCCGCCAGGCGCCCATCCCCGCGGAGCTGCGCGGCGTACGCCG
CTACCTGGACAGCGCGATGCAGGAGAAAGAGTTCAAATACAGTGTCCGCACAGCGCCGAGATCCTGGCGGCCTA
CCGGCCCGCCGTGCACCCCGCTTAGCGCCCCACCCCGCGTCTGTGCGCCAATAAAGGCATCTTTGTGCGGAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1290

MVLLKGVFFLTITVDTRRSPDVLKDFAPGSQLPILLYDSDAKTDTLQIEDFLEETLGPPDFPSLAPRYRESNTA
GNDVFHKFSAFIKNPVPAQDEALYQQLLRALARLDSYLRAPLEHELAGEPQLRESRRRFLDGDRLTLADCSLLPK
LHIVDTVCAHFRQAPIPAELRGVRRYLD SAMQEKEFKYTCPHSAEILAA YRPAVHPR

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FIGURE 1291

TTGCTGAGTACCCAGAGTTGCGAGGAGTTTTTTAACTGATTTAGCCAGGTGGCAATCATGAGTGAATGGATGAAG
AAAGGCCCCCTTAGAATGGCAAGATTACATTTACAAAGAGGTCCGAGTGACAGCCAGTGAGAAGAATGAGTATAAA
GGATGGGTTTTAACTACAGACCCAGTCTCTGCCAATATTGTCCTTGTGAACTTCCTTGAAGATGGCAGCATGTCT
GTGACCGGAATTATGGGACATGCTGTGCAGACTGTTGAACTATGAATGAAGGGGACCATAGAGTGAGGGAGAAG
CTGATGCATTTGTTACGTCTGGAGACTGCAAAGCATACAGCCCAGAGGATCTGGAAGAGAGAAAGAACAGCCTA
AAGAAATGGCTTGAGAAGAACCACATCCCCATCACTGAACAGGGAGACGCTCCAAGGACTCTCTGTGTGGCTGGG
GTCCTGACTATAGACCCACCATATGATCCAGAAAATTGCAGCAGCTCTAATGAGATTATTCTGTGCGGTGTTTCAG
GATCTTATTGAAGGACATCTTACAGCTTCCCAATGAGAGGCCAGGAAGTGTGAACATACTGATAGAAAAGACTA
TATTTTATCCCTCATAAAATGTTTTAAATGTAAAAAAAAAAAAAAAAA

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FIGURE 1292

MSEWMKKGPLEWQDYIYKEVRVTASEKNEYKGWVLTTPV
SANIVLVNFLEDGSM SVTGIMGHAVQT VETMNEGD
HRVREKLMHLFTSGDCKAYSPEDLEERKNSLKKWLEKN
HIPITEQGDAPRTLCVAGVLTIDPPYDPENCSSSNEI
ILSRVQDLIEGHLTASQ

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FIGURE 1293

AGCCGAGGGCTGCACAAAGACCTTCCTGGCCTGCCCCAGACAGAGCTGAGGACCCCTGGCCGTGGGCTTGGGCCT
CGGCTTCACAGGATGGGGCTGCCAGTGTCTGGGCCCCCTCTGCCCTCTGGGTCTAGGGTGTGCGCCCTGCTC
CTCTCGCTGTGGGCGCTGTGCACAGCCTGCCGCAGGCCCGAGGACGCTGTAGCCCCAGGAAGAGGGCGCGGAGG
CAGCGGGCGAGGCTGCAGGGCAGTGCACGCGGCGGCGGAAGCGTCCCTACTGAGGCGGACCCACCTCTGCTCCCTC
AGCAAGTCGGACACCAGACTGCACGAGCTGCACCGGGGCCCGCGCAGCAGCAGGGCCCTGCGGCCTGCCAGCATG
GATCTCCTGCGCCACACTGGCTGGAGGTGTCCAGGGACATACCGGACCGCAGGCAGCCCCCTCTGCCTTCCCA
CACCAGGAGCTGCCCCGGGCTCTGCCGGCAGCTGCAGCCACCGCAGGGTGCCTGGCCTCGAGGCCACCTATTCC
AACGTGGGGCTGGCGGCCCTTCCCGGGTTCAGCCTGGCGGCCAGCCCTGTGGTGGCCGAGTATGCCCGCGTCCAG
AAGCGCAAAGGGACCCATCGCAGTCCCCAAGAGCCACAGCAGGGGAAGACTGAGGTGACCCCGGCCGCTCAGGTG
GACGTCTGTACTCCAGGGTCTGCAAGCCTAAAAGGAGGGACCCAGGACCCACCACAGACCCGCTGGACCCCAAG
GGCCAGGGAGCGATTCTGGCCCTGGCGGGTGACCTGGCCTACCAGACCCCTCCCGCTCAGGGCCCTGGATGTGGGC
AGCGGCCCCCTGGAAAACGTGTATGAGAGCATCCGGGAGCTGGGGGACCCTGCTGGCAGGAGCAGCACGTGCGGG
GCTGGGACGCCCCCTGCTTCCAGCTGCCCCAGCCTAGGGAGGGGCTGGAGACCCCTCCCTGCCTCCCTGCCCTGA

ACACTCAAGGACCTGTGCTCCTTCTCCAGAGTGAGGCCCCGTCCCCCGCCCCGCCCGCCTCACAGCTGACAGCG
CCAGTCCCAGGTCCCCGGGCTGCCAGCCCGTGAGGTCCGTGAGGTCTTGCCGCTCTGACAGCGCGGCCCTCCCC
GGGCTCCAGAGAAGGCCCGCGTCTAAATAAAGCGCCAGCGCAGGATGAAAGCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1294

MGLPVSWAPPALWVLGCCALLLSLWALCTACRRPEDAVAPRKRRARRQARLQGSATAAEASLLRRTHLCSLSKSD
TRLHELHRGPRSSRALRPASMDLLRPHWLEVS RDITGPQAAPSAFPHQELPRALPAAAATAGCAGLEATYSNVGL
AALPGVSLAASPVVAEYARVQKRKGTHRSPQEPQOGKTEVTPAAQVDVLYSRVCKPKRRDPGPTTDPLDPKGQGA
ILALAGDLAYQTILPLRALDVGSGPLENVYESIRELGDPAGRSSTCGAGTPPASSCP SLGRGWRPLPASLP

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FIGURE 1295

ACACACGCTATGCCTTAAATTGGGCCAGGCTGAGGCGCTGCTGCTGGAGCGGCCGATCCGAGACGTGGCTCCCTG
GGCGGCAGAACCATGTTGGACTTCGCGATCTTCGCCGTTACCTTCTTGCTGGCGTTGGTGGGAGCCGTGCTCTAC
CTCTATCCGGCTTCCAGACAAGCTGCAGGAATTCAGGGATTACTCCAAGTGAAGAAAAAGATGGTAATCTTCCA
GATATTGTGAATAGTGGAAGTTTGCATGAGTTCCTGGTTAATTTGCATGAGAGATATGGGCCTGTGGTCTCCTTC
TGGTTTGGCAGGCGCGTCTGGTTAGTTTGGGCACTGTTGATGTACTGAAGCAGCATATCAATCCCAATAAGACA
TTGGACCCTTTTGAAACCATGCTGAAGTCATTATTAAGGTATCAATCTGGTGGTGGCAGTGTGAGTGAAAACAC
ATGAGGAAAAAATTGTATGAAAATGGTGTGACTGATTCTCTGAAGAGTAACTTTGCCCTCCTCTAAAGCTTTCA
GAAGAATTATTAGATAAATGGCTCTCCTACCCAGAGACCCAGCACGTGCCCTCAGCCAGCATATGCTTGGTTTT
GCTATGAAGTCTGTTACACAGATGGTAATGGGTAGTACATTTGAAGATGATCAGGAAGTCATTGCTTCCAGAAG
AATCATGGCACACCCCTCATGCAACTGGAGTCTGTTTAAGGAACATCATAAAGAACGAAAAGGAAGGAACCTTCAG
TCAACATATTTTATTGACTCCTTAGTACAAGGGAACCTTAATGACCAACAGATCCTAGAAGACAGTATGATATTT
TCTCTGGCCAGTTGCATAATAACTGCAAAATTGTGTACCTGGGCAATCTGTTTTTTAACCACCTCTGAAGAAGTT
CAAAAAAATTATATGAAGAGATAAACCAAGTTTTTGGAAATGGTCTGTTACTCCAGAGAAAATTGAGCAGCTC
AGATATTGTCAGCATGTGCTTTGTGAAGTGTTCGAACTGCCAACTGACTCCAGTTTCTGCCAGTTTCAAGAT
ATTGAAGGAAAAATTGACCGATTTATTATTCCTAGAGAGACCCCTCGTCCTTTATGCCCTTGGTGTGGTACTTCAG
GATCCTAATACTTGGCCATCTCCACACAAGTTTGATCCAGATCGGTTTGATGATGAATTAGTAATGAAAACTTTT
TCCTCACTTGGATTCTCAGGCACACAGGAGTGTCCAGAGTTGAGGTTTGCATATATGGTGACCACAGTACTTCTT
AGTGTATTGGTGAAGAGACTGCACCTACTTTCTGTGGAGGGACAGGTTATTGAAACAAAGTATGAACTGGTAACA
TCATCAAGGGAAGAAGCTTGGATCACTGTCTCAAAGAGATATTAAAAATTTTATACATTTAAAATCATTGTTAAAT
TGATTGAGGAAAACAACCATTTAAAAAAAATCTATGTTGAATCCTTTTATAAACCAGTATCACTTTGTAATATAA
ACACCTATTTGTACTTAATTTGTAAATTTGGATTTTATATATCATATTTTCTTAATTCATTGGACACATTTGA
CTTACTGCACAGTATATTGATCATTTTAAATGGGAACTTTAGCTTTCTACTTTTTTAATTTTGGTTTTTCACTTTC
TATGCCATTATTTTTGGATTCTTTTTCTTAGTGTGAGCTCTAAAATCAATGTTCTTGAAAAGAAATTATTTGA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1296

MLDFAIFAVTFLLALVGAVLYLYPASRQAAGIPGITPTEEKDGNLPDIVNSGSLHEFLVNLHERYGPVVSFWFGR
RVVVS LGTV DV LKQH INPNKTLDPFETMLKSLRYQSGGGSVSENHMRKKLYENGVTDSLKSNFALLLLKLSEELL
DKWLSYPETQHVPLSQHMLGFAMKSVTQMVMGSTFEDDQEVIRFQKNHGTPSCNWSLFKEHHKRTKRKELQSTYF
IDSLVQGNLNDQQILED SMIFSLASCIITAKLCTWAICFLTSEEVQKKLYEEINQVFGNGPVTPEKIEQLRYCQ
HVLCELFRTAKLTPVSAQFQDIEGKIDRFIIPRETLVLYALGVVLQDPNTWPSPHKFDPRFDELVMKTFSSLG
FSGTQECPELRFAYMVTTVLLSVLVKRLHLLSVEGQVIETKYELVTSSREEAWITVSKRY

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FIGURE 1297A

GTGGGATAAAGGAATGAGGTTGAGAAAGGGGAGGAGTTGCCCGCAGCCGCACCGCACGTCTTCAGCCCGACCG
TTGTCTGACCTCTCTGTCCCGTCCCTGCCAGTCTCACCATGGCCTTCTGGACACAGCTGATGCTGCTGCTCT
GGAAGAATTTTCATGTATCGCCGGAGACAGCCGGTCCAGCTCCTGGTTCGAATTGCTGTGGCCTCTCTTCTCTTCT
TCATCCTGGTGGCTGTTTCGCCACTCCACCCGCCCTGGAGCACCATGAATGCCACTTCCCAAACAAGCCACTGC
CATCGGCGGGCACCCTGCCCTGGCTCCAGGGTCTCATCTGTAATGTGAACAACACCTGCTTTCCGCAGCTGACAC
CGGGCGAGGAGCCCGGGCGCCTGAGCAACTTCAACGACTCCCTGGTCTCCCGGCTGCTAGCCGATGCCCGCACTG
TGCTGGGAGGGGCCAGTGCCACAGGACGCTGGCTGGCTAGGGAAGCTGATCGCCACGCTGAGGGCTGCACGCA
GCACGGCCAGCCTCAACCAACCAAGCAGTCTCCACTGGAACCACCCATGCTGGATGTCGCGGAGCTGCTGACGT
CACTGCTGCGCACGGAATCCCTGGGGTTGGCACTGGGCCAAGCCCAGGAGCCCTTGACACAGCTTGTGGAGGCCG
CTGAGGACCTGGCCAGGAGCTCCTGGCGCTGCGCAGCCTGGTGGAGCTTCCGGCACTGCTGCAGAGACCCCGAG
GGACCAGCGGCCCCCTGGAGTTGCTGTGAGAGGCCCTCTGCACTGTCAGGGGACCTAGCAGCACAGTGGGCCCCCT
CCCTCAACTGGTACGAGGCTAGTGACCTGATGGAGCTGGTGGGGCAGGAGCCAGAATCCGCCCTGCCAGACAGCA
GCCTGAGCCCCGCTGCTCGGAGCTGATTGGAGCCCTGGACAGCCACCCGCTGTCCCGCTGCTCTGGAGACGCC
TGAAGCCTCTGATCCTCGGGAAGCTACTCTTTGCACCAGATACACCTTTTACCCGGAAGCTCATGGCCAGGTCA
ACCGGACCTTCGAGGAGCTCACCTGCTGAGGGATGTCCGGGAGGTGTGGGAGATGCTGGGACCCCGGATCTTCA
CCTTCATGAACGACAGTTCCAATGTGGCCATGCTGCAGCGGCTCCTGCAGATGCAGGATGAAGGAAGAAGGCAGC
CCAGACCTGGAGGCCGGGACCACATGGAGGCCCTGCGATCCTTTCTGGACCTGGGAGCGGTGGCTACAGCTGGC
AGGACGCACACGCTGATGTGGGGCACCTGGTGGGCACGCTGGGCCGAGTGACGGAGTGCCTGTCTTGGACAAGC
TGGAGGCGGCACCTCAGAGGCAGCCCTGGTGTGCGGGGCCCTGCACTGCTCGCGGAACATCGATTCTGGGCCG
GCGTCGTCTTCTTGGGACCTGAGGACTCTTCAGACCCACAGAGCACCCAACCCAGACCTGGGCCCCGGCCACG
TGCGCATCAAAATCCGCATGGACATTGACGTGGTCACGAGGACCAATAAGATCAGGGACAGGTTTGGGACCCCTG
GCCCAGCCGCGGACCCCTGACCGACCTGCGCTACGTGTGGGGCGGCTTCGTGTACCTGCAAGACCTGGTGGAGC
GTGCAGCCGTCCGCGTGTCTAGCGGGCGCAACCCCGGGCCGGCTCTACCTGCAGCAGATGCCCTATCCGTGCT
ATGTGGACGACGTGTTCTGCGTGTGCTGAGCCGGTCTGCTGCCGCTCTTCTGACGCTGGCCTGGATCTACTCCG
TGACACTGACAGTGAAGGCCGTGGTGCAGGAGAAAGGAGACGCGGCTGCGGGACACCATGCGCGCCATGGGGCTCA
GCCGCGCGGTGCTCTGGCTAGGCTGGTTCCCTCAGCTGCCCTCGGGCCCTTCTGCTCAGCGCCGCACTGCTGGTTC
TGGTGTCTAAGCTGGGAGACATCCTCCCTACAGCCACCCGGGCGTGGTCTTCTGTTCTTGGCAGCCTTCGCGG
TGGCCACGGTGACCCAGAGCTTCTGCTCAGCGCTTCTTCTCCCGCGCAACCTGGCTGCGGCCTGCGGCGGCC
TGGCCTACTTCTCCCTCTACCTGCCCTACGTGCTGTGTGTGGCTTGGCGGGACCGGCTGCCCGCGGGTGGCCGCG
TGGCCGCGAGCCTGCTGTGCGCCGTGGCCTTCGGCTTCGGCTGCGAGAGCCTGGCTCTGCTGGAGGAGCAGGGCG
AGGGCGCGCAGTGGCACAACGTGGGCACCCGGCCTACGGCAGACGTCTTACGCTGGCCAGGTCTCTGGCCTTC
TGCTGCTGGACGCGGCGCTCTACGGCCTCGCCACCTGGTACCTGGAAGCTGTGTGCCAGGCCAGTACGGGATCC
CTGAACCATGGAATTTTCTTTTCGGAGGAGCTACTGGTGCAGACCTCGGCCCCCAAGAGTCCAGCCCCCTGCC
CCACCCCGCTGGACCCAAAGGTGCTGGTAGAAGAGGCACCGCCCGGCTGAGTCTGGCGTCTCCGTTTCGACGCC
TGGAGAAGCGCTTTCTTGAAGCCCGCAGCCAGCCCTGCGGGGGCTCAGCCTGGACTTCTACAGGGCCACATCA
CCGCTTCTTGGGCCACAACGGGGCCGGCAAGACCACCACCTGTCCATCTTGAGTGGCCTCTTCCACCCAGTG
GTGGCTCTGCCTTCATCCTGGGCCACGACGTCCGCTCCAGCATGGCCGCCATCCGGCCCCACCTGGGCGTCTGTC
CTCAGTACAACGTGCTGTTGACATGCTGACCGTGGACGAGCAGCTCTGGTTCTATGGGCGGCTGAAGGGTCTGA
GTGCCGCTGTAGTGGGCCCCGAGCAGGACCGTCTGCTGCAGGATGTGGGGCTGGTCTCCAAGCAGAGTGTGCAGA
CTCGCCACCTCTCTGGTGGGATGCAACGGAAGCTGTCCGTGGCCATTGCCCTTGTGGGCGGCTCCCAAGTTGTTA
TCCTGGACGAGCCTACGGCTGGCGTGGATCCTGCTTCCCGCCGCGGTATTTGGGAGCTGCTGCTCAAATACCGAG
AAGGTGCGACGCTGATCCTCTCCACCCACCACCTGGATGAGGCAGAGCTGCTGGGAGACCGTGTGGCTGTGGTGG
CAGGTGGCCGCTTGTGCTGCTGTGGCTCCCCACTCTTCTGCGCCGTACCTGGGCTCCGGCTACTACCTGACGC
TGGTGAAGGCCCGCTGCCCTGACCACCAATGAGAAGGCTGACACTGACATGGAGGGCAGTGTGGACACCAGGC
AGGAAAAGAAAGATGGCAGCCAGGGCAGCAGAGTCGGCACTCCTCAGCTGCTGGCCCTGGTACAGCACTGGGTGC
CCGGGGCACGGCTGGTGGAGGAGCTGCCACACGAGCTGGTGTGGTGTGCCCTACACGGGTGCCCATGACGGCA
GCTTCGCCACACTCTTCCGAGAGCTAGACACGCGGCTGGCGGAGCTGAGGCTCACTGGCTACGGGATCTCCGACA
CCAGCCTCGAGGAGATCTTCTGAAGGTGGTGGAGGAGTGTGCTGCGGACACAGATATGGAGGATGGCAGCTGCG

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FIGURE 1297B

GGCAGCACCTATGCACAGGCATTGCTGGCCTAGACGTAACCCTGCGGCTCAAGATGCCGCCACAGGAGACAGCGC
TGGAGAACGGGGAACCAGCTGGGTGAGCCCCAGAGACTGACCAGGGCTCTGGGCCAGACGCCGTGGGCCGGGTAC
AGGGCTGGGCACTGACCCGCCAGCAGCTCCAGGCCCTGCTTCTCAAGCGCTTTCTGCTTGCCCGCCGACGCCGCC
GCGGCCTGTTGCCCCAGATCGTGCTGCCCTGCTTGTGGGCTGGCCCTCGTGTTACAGCTCATCGTGCCCTC
CTTTGCGGCACTACCCGGCTCTGCGGCTCAGTCCCACCATGTACGGTGCTCAGGTGTCCTTCTTCAGTGAGGACG
CCCCAGGGGACCCTGGACGTGCCCGGCTGCTCGAGGCGCTGCTGCAGGAGGCAGGACTGGAGGAGCCCCCAGTGC
AGCATAGCTCCCACAGGTTCTCGGCACCAGAAGTTCTGTGTAAGTGCCAAAGGTCTTGGCCAGTGCGAACTGGA
CCCCAGAGTCTCCATCCCCAGCCTGCCAGTGTAGCCAGCCCGGTGCCCGGCGCTGCTGCCCGACTGCCCGGCTG
CAGCTGGTGGTCCCCCTCCGCCCCAGGCAGTGACCGGCTCTGGGGAAGTGGTTCAGAACCTGACAGGCCGGAACC
TGTCTGACTTCTTGGTCAAGACCTACCCGCGCCTGGTGCGCCAGGGCCTGAAGACTAAGAAGTGGGTGAATGAGG
TCAGGTACGGAGGCTTCTCGCTGGGGGGCCGAGACCCAGGCCTGCCCTCGGGCCAAGAGTTGGGCCGCTCAGTGG
AGGAGTTGTGGGCGCTGCTGAGTCCCTGCTGCGGGGGCCCTCGACCGTGCTGAAAAACCTCACAGCCTGGG
CTCACAGCCTGGACGCTCAGGACAGTCTCAAGATCTGGTTCAACAACAAAGGCTGGCACTCCATGGTGGCCTTTG
TCAACCGAGCCAGCAACGCAATCCTCCGTGCTCACCTGCCCCAGGCCGGGCCGCCACGCCACAGCATCACCA
CACTCAACCACCCCTTGAACCTACCAAGGAGCAGCTGTTTGAGGCTGCATTGATGGCCTCCTCGGTGGACGTCC
TCGTCTCCATCTGTGTGGTCTTTGCCATGTCCTTTGTCCCGCCAGCTTCACTCTTGTCTCATTGAGGAGCGAG
TCACCCGAGCCAAGCACCTGCAGCTCATGGGGGGCCTGTCCCCACCCCTCTACTGGCTTGGCAACTTTCTCTGGG
ACATGTGTAATACTTGGTGCCAGCATGCATCGTGGTGCTCATCTTCTGGCCTTCCAGCAGAGGGCATATGTGG
CCCCTGCCAACCTGCCGTGCTCTCCTGCTGTTGCTACTACTGTATGGCTGGTCGATCACACCGCTCATGTACCCAG
CCTCCTTCTTCTTCTCCGTGCCAGCACAGCCTATGTGGTGCTCACCTGCATAAACCTCTTTATTGGCATCAATG
GAAGCATGGCCACCTTTGTGCTTGAGCTCTTCTCTGATCAGAAGCTGCAGGAGGTGAGCCGGATCTTGAAACAGG
TCTTCCCTTATCTTCCCCACTTCTGCTTGGGCCGGGGGCTTATTGACATGGTGCGGAACCAGGCCATGGCTGATG
CCTTTGAGCGCTTGGGAGACAGGCAGTTCCAGTCAACCCCTGCGCTGGGAGGTGGTCGGCAAGAACCTCTTGCCCA
TGGTGATACAGGGGCCCTCTTCTTCTTCTTCACTACTGCTGCAGCACCGAAGCCAACCTCTTGCCACAGCCCA
GGGTGAGGTCTCTGCCACTCCTGGGAGAGGAGGACGAGGATGTAGCCCGTGAACGGGAGCGGGTGGTCCAAGGAG
CCACCCAGGGGGATGTGTTGGTGCTGAGGAACCTTGACCAAGGTATACCGTGGGCAGAGGATGCCAGCTGTTGACC
GCTTGTGCTGGGGATTCCCCCTGGTGAGTGTTTTGGGCTGCTGGGTGTGAATGGAGCAGGGAAGACGTCCACGT
TTCGATGGTGACGGGGACACATTGGCCAGCAGGGGCGAGGCTGTGCTGGCAGGCCACAGCGTGGCCCGGGAAC
CCAGTGCTGCGCACCTCAGCATGGGATACTGCCCTCAATCCGATGCCATCTTTGAGCTGCTGACGGGCCGCGAGC
ACCTGGAGCTGCTTGC CGCCTGCGCGGTGTCCCGGAGGCCAGGTTGCCAGACCGCTGGCTCGGGCCTGGCGC
GTCTGGGACTCTCATGGTACGCAGACCGGCCTGCAGGCACCTACAGCGGAGGGAACAAACGCAAGCTGGCGACGG
CCCTGGCGCTGGTTGGGGACCCAGCCGTGGTGTTTCTGGACGAGCCGACCACAGGCATGGACCCAGCGCGCGGC
GCTTCCCTTTGGAACAGCCTTTTGGCCGTGGTGCGGGAGGGCCGTTTCACTGATGCTCACCTCCCATAGCATGGAGG
AGTGTGAAGCGCTCTGCTCGCGCCTAGCCATCATGGTGAATGGGCGGTTCCGCTGCCTGGGCAGCCCGCAACATC
TCAAGGGCAGATTGCGCGCGGGTCAACACTGACCCTGCGGGTGCCCGCGCAAGGTCCCAGCCGGCAGCGGCCCT
TCGTGGCGGCCGAGTTCCCTGGGTGCGAGCTGCGCGAGGCACATGGAGGCCGCTGCGCTTCCAGCTGCCCGCGG
GAGGGCGCTGCGCCCTGGCGCGCGTCTTTGGAGAGCTGGCGGTGCACGGCGCAGAGCACGGCGTGGAGGACTTTT
CCGTGAGCCAGACGATGCTGGAGGAGGTATTCTTGTACTTCTCCAAGGACCAGGGGAAGGACGAGGACACCGAAG
AGCAGAAGGAGGCAGGAGTGGGAGTGACCCCGCGCCAGGCCTGCAGCACCCCAACCGCTCAGCCAGTTCCTCG
ATGACCCTAGCACTGCCGAGACTGTGCTCTGAGCCTCCCTCCCTGCGGGGCCGCGGGGAGGCCCTGGGAATGGC
AAGGGCAAGGTAGAGTGCTTAGGAGCCCTGACTCAGGCTGGCAGAGGGGCTGGTGCCCTGGAGAAAATAAGAG
AAGGCTGGAGAGAAGCCGTGGTGGTGAAA

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FIGURE 1298

MAFWTQLMLLLWKNFMYRRRQPVQLLVELLWPLFLFFILVAVRHSHPPLEHHECHFPNKPLPSAGTVPWLQGLIC
NVNNTCFPQLTPGEEPGRLSNFNDLSVSRLLADARTVLGGASAHRTLGLGKLIATLRAARSTAQPQPTKQSPLE
PPMLDVAELLTSLLRTESLGLALGQAQEP LHSLEAAEDLAQELLALRSLEVELRALLQRPRGTSGPLELLSEALC
SVRGPSSTVGP SLNWYEASDLMELVGQEPESALPDSSSLPACSELIGALDSHPLSRLLWRLKPLILGKLLFAPD
TPFTRKLMAQVNRTFEELTLLRDVREVWEMLGPRIFTMNDSSNVAMLQRLQLMQDEGRRQPRPGGRDHMEALRS
FLDPGSGGYSWQDAHADVGHLVGTGLGRVTECLSLDKLEAAPSEAALVSRAQLLAHRFWAGVVFLGPELSSDPT
EHPTPDLGPGHVRIKIRMDIDVVRTNKIRDRFWDGPAADPLTDLRYVWGGFVYLQDLVERAAVRVLSGANPRA
GLYLQQMPYPYCYVDDVFLRVLSRSLPLFLTLAWIYSVTLTVKAVVREKETRLRDTMRAMGLSRAVLWLGWFLSCL
GPFLLSAALLVVLKLGDI LPYSHPGVVFLELAAFAVATVTQSFLLSAFFSRANLAAACGG LAYFSLYLPYVLCV
AWRDRLPAGGRVAASLLSPVAFGFGCESLALLEEQGEGAQWHNVGTRPTADVFLAQVSGLLLLDAALYGLATWY
LEAVCPGQYGIPEPWNFPFRRSYWCGRPPKSPAPCPTPLDPKVLVEEAPPGLSPGVSVRSLEKRFPGSPQPALR
GLSLDFYQGHITAF LGHNGAGKTTTSLISGLFPSPGGSFILGH DVRSSMAAIRPHLGVC PQYNVLFDM LTVDE
HVWFYGR LKGLSAAVVGPEQDRLLQDVGLVSKQSVQTRHLSGGMQRKLSVAIAFVGGSQVVILDEPTAGVDPASR
RGIWELLLKYREGRTLILSTHHLDEAELLGDRVAVVAGGR LCCGSPFLRRHLGSGYYLTIVKARLPLTTNEKA
DTDMEGSVDTRQEKKNGSQGSRVGTPQLLALVQHWP GARLVEELPHELVLVLPYTGAHDG SFATLFRELDTRLA
ELRLTGYGISDTSLEEIFLKVVEECAADTMEDGSCGHLCTGIAGLDVTLRLKMPPQETALENGEPAGSAPETD
QGS GPDAVGRVQGWALTRQQLQALLKRFLLARRSRRLFAQIVLPALFVGLALVFSLIVPPFGHY PALRLSPTM
YGAQVSFFSEDAPGDPGRARLLEALLQEAGLEPPVQHSSHRSFAPEVPAEVAKVLASGNWTPESPSPACQCSQP
GARRLLPDCPAAAGGPPPPQAVTGSGEVVQNL TGRNLSDFLVKTYPRLV RQGLKTKKWVNEVRYGGFSLGGRDPG
LP SGQELGRSVEELWALLSPLPGGALDRVLKNLTAWAHSLDAQDSLKIWFNNKGWHS MVAFVNRASNAILRAHLP
PGRARHAHSITTLNHPLNLTKEQLFEAALMASSVDVLVSICVVFAMSFVPASFTLVLI EERVTRAKHLQLMGGLS
PTLYWLG NFLWDMCNYLVPACIVVLIFLAFQQRAYVAPANLPALLLLLLLLYGWSITPLMYPASFFF SVPSTAYVV
LTCINLFIGINGSMATFVLELFS DQKLQEVSRILKQVFLIFPHFCLGRGLIDMVRNQAMADAFERLGD RQFQSPL
RWEVVGKNLLAMVIQGPLFLLFTLLLOHRSQLLPQPRVRS LPLLGEEDDVARERERVVQ GATQGDVLVLRNLTK
VYRGQRMFAVDRLCLGIPPGE CFGLLG VNGAGKTSTFRMVTGDTLASRGEAVLAGHSVAREPSAAHLSMGYCPQS
DAIFELLTGREHLELLARLRGVPEAQVAQTAGSGLARLGLSWYADRPAGTYSGGNKRKLATALALVGDP AVVFLD
EPTTGMDPSARRFLWNSLLAVVREGRSVMLTSHSMEECEALCSRLAIMVN

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FIGURE 1299

CAGAGCTGGCTGCGCCGAGCCCCCTGCGCGCTGCACATGGGGCGCCTGACGGAAGCGGCGGCAGCGGGCAGCGGC
TCTCGGGCTGCAGGCTGGGCAGGGTCCCCCTCCACGCTCCTGCCGCTGTCTCCACGTCCCCCAGGTGCGCGGCC
ACCATGGCGTCCAGCGACGAGGACGGCACCAACGGCGGCGCCTCGGAGGCCGGCGAGGACCGGGAGGCTCCCGGC
AAGCGGAGGCGCCTGGGGTTCTTGGCCACCGCCTGGCTCACCTTCTACGACATCGCCATGACCGCGGGGTGGTTG
CTCTAGCTATTGCCATGGTACGTTTTTATATGGA AAAAGGAACACACAGAGGTTTATATAAAAGTATTCAGAAG
ACTTAAATTTTTCCAGACATTTGCCTTGCTTGAGATAGTTCAGTGTTAATTGGAATTGTACCTACTTCTGTG
CTGTGACTGGGGTCCAAGTGAGTTCAAGAATCTTTATGGTGTGGCTCATTACTCACAGTATAAAACCAATCCAG
AATGAAGAGAGTGTGGTGCTTTTTCTGGTCGCGTGGACTGTGACAGAGATCACTCGCTATTCCTTCTACACATTC
CTCTTCTTGACCACTTGCCATACTTCATTAAATGGGCCAGATATAATTTTTTTATCATCTTATATCCTGTTGGA
TGCTGGTGAAC TTCTTACAATATACGCTGCCTTGCCGCATGTGAAGAAAACAGGAATGTTTTCAATAAGACTT
AACAATAACAATGTCTCTTTTGACTACTATTATTTCTTCTTATAACCATGGCATCATATATACCTTTGTTT
ACAAC TCTATTTTCATATGTTACGTCAAAGAAGAAAGGTGCTTCATGGAGAGGTGATTGTAGAAAAGGATGAT
AATGATCTCTGCAAAACAAGGTGCTTTTTCCAGAATAACCAAGATTACCTGAGTCCAAGTTTTAATAACAAGAA
AAACAAC TTTGTGAAATATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1300

MGRLTEAAAAGSGSRAAGWAGSPFTLLPLSPTSPRCAATMASSDEDGTNGGASEAGEDREAPGKRRRLGFLATAW
LTFYDIAMTAGWLVLAIAMVRFYMEKGTHRGLYKSIQKTLKFFQTFALLEIVHCLIGIVPTSVIVTGVQVSSRIF
MVWLITHSIKPIQNEESVVLFLVAWTVTEITRYSFYTFSLLDHLPYFIKWARYNFFIILYPVGVAGELLTIYAAL
PHVKKTGMF SIRLPNKYNVSFDYYYFLLITMASYIPLFPQLYFHMLRQRRKVLHGEVIVEKDD

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FIGURE 1301A

GGCGGCTCCGGCGCAGACCTTGGAGAGCACAGCTGCCGGCCCGCGAGCCAGCCTCGGTTCGCCGGGCCCGCCGAG
GCTCGGAGCCATCCAGCGACCCGGCGACCGGCCTCAGGCCCCGCCATGGGGAAGACCAACAGCAAGCTGGCCCCC
GAGGTGCTGGAGGACCTTGTTTCAAGAACTGAGTTTACGCGAGCAGGAGCTGAAGCAGTGGTACAAGGGCTTCCTG
AAGGACTGCCCCAGCGGCATCCTCAACCTGGAGGAGTTTACGAGCTCTACATCAAGTTCTTCCCCTACGGCGAC
GCCTCCAAGTTTCGCGCAGCAGCTTTCCGCACCTTCGACAAGAACGGCGACGGCACCATCGACTTCCGGGAGTTT
ATCTGCGCCCTGTGCGTCACCTCCCGCGGCAGCTTCGAGCAGAAGCTCAACTGGGCCTTTGAGATGTACGACCTG
GACGGCGACGGGCAATCACGCGCCTGGAGATGCTGGAGATCATCGAGGCAATCTACAAGATGGTGGGCACCGTG
ATCATGATGCGCATGAACCAGGACGGGCTCACGCCCCAGCAGCGTGTGGACAAGATCTTCAAGAAGATGGACCAG
GATAAGGACGACCAGATTACATTGGAGGAGTTCAAGGAGGCAGCCAAGAGTGACCCATCCATTGTGTTGCTGCTG
CAGTGTGACATGCAGAAGTAGAAGCTGGTGGAGGGGAGGGTCCCTGGCCAGAAGGGGCATGGCCACCTCCCAACC
TGATGACCTCTCTGGCTGGCCTCCAGGAGGAGGGACACTCCAGCCCCCTCTCTGGCCACCCAGTCTCTGCCC
CAAGCCCTTCTCCCCTCCATCAAGATCTTTGAGGGACCACTCACCTTGCAAAAGAGACAGGTCTCCAGTACC
CTGTCTTCTAGCCCCACCTCCCACTTGGCCAGAACCAATGTCCATTGGGCATAGGGGAGTTGGCTTTTGCCCCAG
GAGGTGAGGTTAAGGAGTTGGGGGCTGGGGTCTGGTTAGGAATTCTCTTGATCCTGGGATTATGCTTTATAGG
ATGTGGTCCCACAGGCCTGTACAGGGCCAAATGGGTCTGTCCATTCTGAGGCTCCAGATCCCATAAAGGGGG
TCTCTTCCCCATCCCTTCTACTCTACCTGGCCCTTCCAGCCCCAGCCTTTGGAGCGTTCAATTCAGTCTTTCTTC
AGCTAATGATTACTGAGCACCTGTTTGGTGCTAAGGATATGGTCATTTACAAGACACATCTTGTGCCCTCTGGAA
GCTCATAGGGTTGTGAGGCAAACTTCCAGCCGTGAGGTCTCAGCTAAGCAGAAGGTGCTGGAAGGCTGGTTAGT
CTGGGAGGAGCTATTTTATCTTCCAGCTCAGCTCCACACAAAGCTGCAGAAGGACGAAATGAAAAGCATTGGAA
GTTTAGGAGCCACGTGAGTGAAAGTTTTAAGAAAAATGAAATTTATGTCATACTTATTTTTTTAGTACCCTTTAA
AGGAGCTACAGTCATTTTATTATTTTCAAGGAGGTTAAATATACTCTATATTACTTGGTTTATTATAAAATGATTA
AATGAATAGAGAAAATATTAATTTTCAAGGGGAAAAAACCTGAGAAGAAAGGGAGAAAAGACCATGAAATTTACC
AGATAACACTTTTTAAGACTAAGTCCTGAGCTGCCACTCTCAGCAGTTTTTGCTGCTTCAGCTCTTCTTTTTAT
TACCTTTTTCAATTCAACAAGCAACTTTCTGCTACATACTTACTCCGGTTGGGTGCTGACTTCAGGGACAGGAAA
AAGCAAGGTTTGCAAAGAGTGAACTAGTGTATATTCCGTATCTTGGTAGTTTCGTTTCTGGATTGGGTTTAGTTT
CAGAACTGGACTTGTTCCTTCACTGCCACAGAATCAGAAAGAGCTAGAAGAAAAGGCTCACCTGGCCACTGTTTA
GGCACCCAGACATAATTTATGGACGAAATGCCTAAAAATGTGCGCAGGCATGCTCTGTTTGGAGAGCTTTTTCTAA
CCCCAAATCTTAGATCTGCCAGGTAGTTCAACATCTTCCAAGTGTGCTGGTCTGCTTCCAATGCCTGCTTCCC
AATTTTGGATCCATGAGCTATACAGCTGCATGCTTTGACTGCCGGAAAAATTAATCTTGCTTCTTCATCAGGTCT
TTCTCCTGTACTTGTGATCAGAAATTACCTTTGACGTGCAGTGACAGTTGATTTCTCTTGAACGCCGGTGAAA
ACAGTCTAGTACACAGGTGCTGTGACCCAGGGTGGGAGCAGGAAATGATTGCTGAGCCCCGGGGCAGGGGAATTG
CATCTGCAGGAAAGAGATGCAGCATGCTCCTCACTCCTGAGTGCCACCTGTCTGCTTCTCTGCAGGTGAAAAC
TCTGGGGGATGCTGATCAATAGAGCTTGGTCCCAAGCTCTACTGGGCCCTTGGAGGTAGCAAGGCCACTGGGTTG
CTATCCTCTTGATGGGGATAGCAACCACTGGTTTGCAACCACTGGGTTGCTATCCTTTTGCTATCCTCTTGCTCA
TGACCAGCCATATGGTGAGGCTGGGGAGTTACATCCTCAGGCAGGAACTAGCAGTTGTTTATCCAGCAATGCCT
CAAGGATGTTGCATTGCTCCAGGAGCTGGCTATTAGGTATGCTTGTGCGGTGAGTCAGCATCAGACACATA
GATGCTCACCAGCCTGGCTTAGCTGGGACCTAAATCTTCTGGTGAAAAGCTTTTCACTAAGTGAGGTTCTTCCC
TGCAAATGCTGAATCTAGCCTAATTGCAACCAACACAGAATTTTATGCTTTTCAAAGGCTTGCCATGTGCCCCAT
CTCATTCTATACTCACATCCCATGGAGGTGAGGATTTTCACTTCTTTTCTCTAGACTTGGAAGCTGAGATTGAGA
GAGGAAGCATCCCTTGTGCAAGATCACATAGTCAGGAGGTGACACAGGGCTAAGACTTGAACCAAGGCTCTAAGA
GGATTTCTTCTTTTTCAGAGTCTCTTCCCTGTCCATTCTGTGACTAAGCTGTGCAGAGGTTGACAGCAGGGCAAG
TTACATTGATATTATCCTTTTATAGGCTTCTGCTAAAAAGCTTCTGAGATTGTGGTCTTCCAAAAAAAATAGGA
GCTTGGTTGAAGTCCCCACATTTTCAAGCACTCAGTGTCTGCCTCTGGCAGCTGTGCTAACAGCTCAGTGCTGT
CCTGGGAGTCTCTGACTCAGAACCCTCGAAGCATCCTGCATTGTCTTTACCCACCATCATCGTCACTAAGAGAA
ACATGCCTACCCATGAAGGCGTGTGTTGATTACTCCAGGCTTCTGGACACACATACCCATGGGTGATTTTTGCTCC
TCAGGCCCAATATTCTCAGACAGCCCAGCAGTGTGAACACACAATGCCAGGCCAGGAACTGGGACCACCATCTTG
CTGATGGAAGGAACAACAGGTGGCCCAGGACATGCTCCTGCATACTCCTGGGTGTCCAGGGACTGTGTGCTCAG
GAGCACTGTGGTAGAGCACTGGCCCTGCCTTGAGAAGAGACACAGGTCTCCCGTCCCTGCACCAGCTGAGAGAGA

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FIGURE 1301B

CTTGCCACAAAGCACAAAGGCTGGCAGAGATTTATGTATGACTTGACACAGACACAAAAATATACAGACAATCAAAA
CATTGATATATTCAAACCTCTCCTTTAAATTCCAATCTTATTGCAACAACCTCTGTGAATTGCAAGGTCCCAGAATC
TGCCTTCTCACATACTCTACCCCTCATTCACTCTTTGGGCTAATTGATGAGCATCTTATTTCTTATCTCTAAAAA
TTATCAGCAAAGGCTACTTCAGATGGCCACTTTAGTCCTTTAGCTGTAGTCAGGATTATTTAACTTACCTGTAT
ATCAAAAGTGAAGAAAAAGTTAGTTCATAAGTAAAGGCACTAAATCCTTTCTGACAATGGCAGAGTCTCTAGAG
GTAGAAATTTGCCTTGCTGCAGAGAGAGAAGGAATGGCGTGGGATGGGGGAAAGAAAAGAAAGAGAAGAAGAGAA
GAAGCTGGGGTCTCCAGGCAGGGTAGTAAGCTGACACTAAATATTTTTTACACAAAAATGTATTGAAGCAACAAA
TATTTCTGAAGATCCACCCTGGGTGAGGCTTTGAGCTGACTTTAGAGATCACTGTGGGGTCAAGAATGTCTTAC
ATGTTTTATTTCATCTTCTTGAAAAAGAAATAATTCAAACCTTGGAATTAAAAAGTCAGAAAAACAAAAAAA
AAAAAAA

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FIGURE 1302

MGKTNKLAPEVLEDLVQNTEFSEQELKQWYKGFLKDCPSGILNLEEFQQLYIKFFPYGDASKFAQHAFRTFDKN
GDGTIDFREFICALSVTSRGSFEQKLNWAFEMYDLGDGRITRLEMLEIIEAIYKMVGTVIMMRMNQDGLTPQQR
VDKIFKKMDQDKDDQITLEEFKEAAKSDPSIVLLLQCDMQK

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FIGURE 1303

CAAAGGTCAGAGGTAAAGAAGTCATGGCGGCGCTGTGTCTGGACCCGTGCTGTGGCTGCCGAGAGCCATTTTCTGC
GAGTGTTTCTCTTCTTCAGGCCCTTTCGGGGTGTAGGCACTGAGAGTGGATCCGAAAGTGAGTAGTTCCAATGCCA
AGGAGCCTAAGACGCGCGCAGGCGGTTTCGCGAGCGCGTTGGAGCGGCACTCGGAGCTTCTACAGAAGGTGGAGC
CCCTACAGAAGGGTTCTCCAAAAAATGTGGAATCCTTTGCATCTATGCTGAGACATTCTCCTCTTACACAGATGG
GACCTGCAAAGGATAAACTGGTCATTGGACGGATCTTTCATATTGTGGAGAATGATCTGTACATAGATTTTGGTG
GAAAGTTTCATTGTGTATGTAGAAGACCAGAAGTGGATGGAGAGAAATACCAGAAAGGAACCAGGGTCCGGTTGC
GGCTATTAGATCTTGAACTTACGTCTAGGTTCTGGGAGCAACAACAGATACAACCTGTACTAGAGGCTAATGCAG
TTCTCTTGGGAATCCAGGAGAGTAAAGACTCAAGATCGAAAGAAGAACATCATGAAAAATAAATGAACTTTGCTT
AGTGGATTGACTCCTTTGCTGAAGTCAGTTATTCATCAAGAATGCAATTAGACTAATTGTGAATAAATGATTGAA
TGAAGATATAATAAATAAAAGCTATAATTATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1304

MAALCRTRAVAAESHFLRVFLFFRPFRGVGTESGSESGSSNAKEPKTRAGGFASALERHSELLQKVEPLQKGSPK
NVESFASMLRHSPLTQMGPADKLVIGRIFHIVENDLYIDFGGKFHCVCRPEVDGEKYQKTRVRLRLLDLELT
SRFLGATTDTTVLEANAVLLGIQESKDSRSKEEHHEK

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FIGURE 1305

CCCAAAATATATATTTAATCTTGTGGTTCAAATAAGCTTTTGGCTCACATCTAAGCACATCATAAAGAACGCTGTA
GAAGAGGTGACATGATGAGGCGGGAAGACGAGGAAGAGGAGGGAACAATGATGAAGGCAAAAGGGGACTTAGAGA
TGAAGGAGGAGGAAGAGATTAGTGAGACAGGAGAACTGGTTGGCCCTTTTGTGAGTGCTATGCCCACTCCAATGC
CCCACAACAAGGGCACCCGGTTCTCTGAGGCATGGGAATATTTCCACCTAGCTCCTGCTCGTGCTGGGCACCATC
CCAACCAGTATGCCACCTGCCGCCTGTGTGGCAGGCAGGTGAGCCGTGGCCCTGGGGTCAACGTGGGCACCACTG
CACTGTGGAAGCATCTGAAAAGCATGCACAGAGAGGAGCTGGAGAAGAGTGGCCATGGTCAGGCTGGGCAGCGCC
AGGATCCAAGGCCCCACGGGCCCCAGCTCCCCACAGGCATTGAGGGTAACTGGGGTAGGCTCCTGGAGCAGGTGG
GCACCATGGCTTTGTGGGCCAGCCAAAGGGAAAAGGAGGTGCTTAGGAGGGAAAGGGCAGTGGAATGGCGGGAGA
GGGCTGTGGA AAAAAGGGAGCGAGCCCTGGAGGAGGTGGAAGGGCCATCCTGGAGATGAAGTGAAGGTGAGGG
CTGAGAAGGAGGCATGCCAGCGGGAGAAAGAGCTGCCTGCAGCAGTACATCCCTTCCATTTTGTTTTAAATTGGGC
TTGGAGAATCTATTCTGAAAACATTGACTCTAGACTTGTAGAAAAGAGCCATTTTAGTTTCAACTCAAATGTAAA
GCAAAGTAGTTTGGTGACATTTTGCTTTTATGTGAAATAGTGACAGTATGAGTTAATCTGAGCAGGTCTGAATT
GACCAAATGCTTATCTACGAGGTTTCTAGAGCTCTGCTGACCCTTGGCCGAAACTCTAAAATGTACCTATTAAAG
ATAAATGCTTCTACCAAAGTAAACTCTGTGAGTTGTTTCAGGGCAGAATGTACCAGCCAGTCAGCGTTGTTTAA
CAAAATAATCAGATTTTGCCTAGCACTCGGTTTTTGGTGGAGCTGACGATTTTGGGGCTGAGGCTGGTTAGGTA
GCTGGAATGTGCCTATGTGACCAGCTCACTTGACAGACCCCTGCCGGAAGCAGAGCTTAATCTTCTAGGACTGA
GGTCTTAGCACATGTACTGGTGGAGTTTCCAGACCACCAGTATGAATAAAAGCTTGTTCTGTGTGACCCAGCAAG
TGGAAGGACAAAGAACTGTGAGCCTCAGATCTTTGGACCTTTCCAATGCGTCTCTTTCTCCTGTTATTGCTGCAA
TGTATTTTCTTGCTTATATTAAAGTTGTTTCATCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1306

MRREDEEEEGTMMKAKGDLEMKEEEEISETGELVGPFVSAMPTPMPHNKGTRFSEAWYFHLAPARAGHHPNQYA
TCRLCGRQVSRGPGVNVGTTALWKHLKSMHREELEKSGHGQAGQRQDPRPHGPQLPTGIEGNWGRLLLEQVGTMAL
WASQREKEVLRRERAVEWRERAVEKRERALEEVERAILEMKWKVRAEKEACQREKELPAAVHPFHFV

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FIGURE 1307

CACATTCCAGAAAAAATACCGCTTTCACAAAACCTCGCTCCGCATGACCCACAGAACACCCAAGGTCAAAAAGAG
TCCAAAGTTCAGAAAGAAAAGTTATCTGAGTAGACTGATGCTCGCAAACAGGCCTCCGTTCTCTGCAGCGAAGAG
CCTCATAAATTCCCCTTCACAAGGGGCTTTTTTCATCCTTAGGAGACCTGAGTCCTCAAGAAAACCCTTTTCTGGA
AGTATCTGCTCCTTCAGAACATTTTATAGAAACCACTAATATAAAAGACACAACCTGCAAGAAATGCCTTGGAAGA
AAATGTTTTTATGGAAAACACTAACATGCCAGAAGTCACCATCTCTGAAAACACAACTACAATCATCCTCCTGA
GGCAGATTCCGCTGGGACTGCATTCAACTTAGGGCCAAGTGTAAACAACTGAGACAAAATGGGAATACAACAA
CGTGGGCACTGACCTGTCCCCGAGCCCAAAAGCTTCAATTACCCATTGCTCAGTTTGAAATTACAGCTAACCAG
CAGCTACAGTCCCTTATCCCCAACAAACATGTGAGAAGGCTCATTTCTCATGTTATCCGGACCTTGAAGATGGAC
TGCTCTGGGGCCCCATGTGCAAGTGACCTGTGCCAAGCTCATCTCCAGGACAGGCCACCTGATGAAGCTTCTCAGT
GGGCAGCAGGAAGTAAAGGCATCTGAGATAGAATGGGATACGGACCAATGGAAGACTGAGAAGTACATTAATGAG
AGCACGGAAGCCCAGAGTGAACAGAAAGAGAAGTCGCTTGAGCTCACAAAAGAAGTTCCAGGATACGGCTATACT
GACAACTCATCTTGGCATTAAATTGTGACTGAAATACTAATGATTTTGATTATACTTTTCTGCCTCATTGTGGTT
TAGGATTGGGTGTGTGTGTCTCTCTGAATGGCACTCAAATGTTTGCTGACTCCTACTCTGCGTGACTGGGGT
GTACAGCTATGGACTGATGCATCCCATCCCATCATCTTTCACGAGCAAAGCAGTCTCTTTTTTGACAGCTGAAGA
AGAACCTGTAGGGAATCCAGAAGGAGCATTATGAAGGTGTTACAAGCCCGGAAGAATTACACAAGCACTGAGCT
GACTGTTGAGCCGGAGGAGCCCTCAGACAGCAGTGGCATCAACTTGTGAGGCTTTGGGAGTGAGCAGCTAGACAC
CAATGACGAGAGTGATGTTATCAGTGCACCTAAGTTACATTTGCCATATTTCTCAGCAGTAAACCTAGATGTGGAA
TCAATGTTACTACCGTTCATTAAACTGCCAACACAGGAAACAGCCTGGCAAAGATTCAAAGAGGTGGGAAGGCAG
CGGCAAAAAGTGAATAGAGTCCTCATGGGCCCAATGAGCATCCAGAAAAGGCACTTCAAAGAGGTGGGAAGGCAG
AGCATCAGGAGGGAACAGGGTGCCCAAGGCATCTGTGGAGAACGCTGCCGAAGAAAAAAGGCTCGGGAGTCCAGCC
CCAAGGGAGCTGGAACAGCCTCACACACAGCAGGGGCTGAGAAGTTAGCGGGAACGCCATCTACACCAAGCCT
TCGTTTACGCAAGAGCATAAGGCAGCAGTCTCTGTGCTGACACCCTTCTCCAAGGGCGCGCCTTCTACCTCCAGC
CCTGCAAAAGCCCTACCAAGGTGAGAGACAGATTGAAAGACAACACACACTATTTCCATTTTAGAAAGTGCAAA
GGCTAGAGTTACAAATATGAAGGCTTCTAAACCAATTTACATTCCAG

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FIGURE 1308

MTHRTPKVKKSPKFRKKSRLMLANRPPFSAAKSLINSPSQGAFSSLGDLSPQENPFLEVSAPSEHFIETTNI
KDTTARNALEENVFMENTNMPEVTISENTNYNHPPEADSAGTAFNLGPTVKQTETKWEYNNVGTDLSPPEPKSFNY
PLLSLKFS

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FIGURE 1309

GGAAGCTCAGCAGTGTCCTGTCGCCATTCCCTGGCCATAGAAAACAATGTATTTGAATTTTGATGTAAGCATA
GCAAATTGAAGATGAAGATGACACGTTGATTTCTTGTTTGAAATTAACCAAGTCCCGAGAAAAGAAAGTGAATAG
TGTTAGCACGAGGAGGAAGGAAGAAATGGAGATTAGATTGGATACTCTTTCTGCATCACTGGGTAGATCCAGCAC
TTTAAATGACTGCAACTTGGAAGATAAATTAGCTTGGTATGAAGGTGAAGCTTACATGTGGCATCACTGGAAGCC
TTTTCTGAAAACCTCTCTGGACATGTCTTGATTCCAAATAGCACAAGTTGGACCCTGGGACTACTGCTCCTC
TTGTATTCGCCACACACGTCTCAAGTCTTCCTGCTCAGATATGGATCTCCTACATTCATGGCGAAGCAGCAGTTT
TGGGAATTTGATCGTTTTTCGGAATAATCTTTATCAAAACCAGATGATTCAACTGAGGCACATGAAGGAGATCC
CACAAATGGAAGTGGAGAACAAAGTAAACTTCAAATAATGGAGGCGGTTTGGGTAAAAAATGAGAGCTATTTT
ATGGACAATGAAGAAAAAGTGGGTAAAAAGTACATCAAAGCCCTTTCTGAGGAAAAGGATGAGGAAGATGGAGA
GAATGCCCCACCATATAGAAACAGTGACCCCTGTGATTGGGACCCACACAGAGAAGGTGTCCCTCAAAGCCAGTGA
CTCCATGGATAGTCTCTACAGTGGACAGAGCTCATCAAGTGGCATAACAAGCTGTTTCAAGTGGTACAAGTAACCG
GGACAGCTTTTCGACTGGATGACGATGGCCCCCTATTCAAGGACCATTCTGTGGCCGTGCCAGAGTGCATACGGATT
CACGCCAAGTCCCTATGACACTGACTCCCTCAAATCAAGAAAGGAGACATCATAGACATTATTTGCAAAACACC
AATGGGGATGTGGACAGGAATGTTGAACAATAAAGTGGGAACTTCAAATTCATTTATGTGGATGTCATCTCAGA
AGAGGAAGCAGCCCCCAAGAAAAATAAAGGCAAACCGAAGGAGTAACAGCAAAAAATCCAAGACTCTGCAGGAGTT
CCTAGAGAGGATTCATCTGCAGGAATACACCTCAACACTTTTGCTCAATGGTTATGAGACTCTAGAAGATTTAAA
AGATATAAAAGAGAGTCACCTCATTGAATTAATATTGAAAACCCAGATGACAGAAGAAGGTTACTATCAGCTGC
TGAAAACCTCCTTGAAGAAGAAATTATTCAAGAGCAAGAAATGAACCTGAGCCCCCTATCCTTGAGCTCAGACAT
CTCCTTAAATAAGTCACAGTTAGATGACTGCCCAAGGGACTCTGGTTGCTATATCTCATCAGGAAATTCAGATAA
TGGCAAAGAGGATCTGGAGTCTGAAAATCTGTCTGACATGGTACATAAGATTATTATCACAGAGCCAAGTGACTG
AACACGCATTCCCAACTATATATCTACAGATGCATTCCATTTTAACTCTTCTTGAGCTAAAACGTCAAATAGGAG
AGGAAGATAAGATAAATATTTGTAAATAAAACCTAAAGTTTAAATGTTTAAATCTGAATAATTGTACATAAAATT
TTGTATCTCTAACATTCCAAATTACTGTCAATAAAATATATATTTATTATTTTAAATGCTATGTGTTAATATTTT
ACTTGCTTGTATTAGAAAGGCAAAATGTAAGACTTTGGTATGTGTGACATATGCTTTATTTGGCTTTATTTTACA
AGTACAGTATCTGCAAAAAACAAAGTAACCTTTTTTCATACCTGCCAGTTTGAATTTATATATGTTATTGAACA
AATAGTAATAGAGGATTCGCTGTTGAAACAAGTTGTCCAAGCAATGTTATATTCATTTTATACTTATTGGGAAA
GTGTGAGTTAATATTGGACACATTTTATCCTGATCCACAGTGGAGTTTGTAGTAATTATTTTGTGATTTCTTC
ATTTTGTCTTCTGGTATAAAAGTAGAGATAATGTGTAGTCACTTCTGATTTAGTGAAACCAATTGTAATAATTGT
GGAAATGTTTTGTCTTTAAGTGAAATATTTTAAATTTGACATACCCTAATGTTAATAATAAAAGAACTATTT
GCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1310

MEIRLDTLSASLGRSSTLNDCNLEDKLAWYEGEAYMWHHWKPFPENPLWTCLDFQIAQVGPDYCSSCIRHTRLK
SGCSMDLLHSWRSSSFNGFDRFRNNSLSKPDDSTEAEHGDPTNGSGEQSKTSNNGGGLGKKMRAISWTMKKKVG
KKYIKALSEEKDEEDGENAHPYRNSDPVIGTHTEKVSLKASDSMDSLYSGQSSSSGITSCSDGTSNRDSFRLDDD
GPYSGPFCGRARVHTDFTPSPYDTSKIKKGDIIIDIICKTPMGMWTGMLNNKVGNFKFIIYVDVISEEEAAPKKI
NRSNSKKSKTLQEFLEIRIHLQEYTSLLLNGYETLEDLKD IKESH LIELNIENPDDRRRLLSAAENFLEEEI
ENEPEPLSLSSDISLNKSQLDDCPRDSGCISSGNSDNGKEDLESENLSDMVHKIIITEPSD

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FIGURE 1311

GGGGCAGACGTGGGACGGGAAGGACGGCTGCCGGGACTGGCGCGCGGGGACACTGGGCCGACGCGTGGAGTAGCG
GGGAGAGCGGGAAGCCTGAGGGGGCGGGGCCGGCGCGAGGCCGTGGGTGCGGCACGAGGATGCCGGCGGGCGGGAC
AGCGCCCGTAGGCAGCCCCACGGGCAGGGCGCGCGGGCGGGGCGGGGCGGGCCGGGCCAGAGGAGCTCCCGGCAT
ETCGCAAGGGCTCCCGGCCGCCGGCAGCGTCTGTCAGAGGAGCGTCGCGGCGCCCCGGGAACCAGCCGCAGCCGCA
GCCGCAGCAGCAGAGCCCTGAGGATGATGACAGGAAGGTCCGAAGGAGAGAAAAAACCGAGTTGCTGCTCAGAG
AAGTCGGAAGAAGCAGACCCAGAAGGCTGACAAGCTCCATGAGGAATATGAGAGCCTGGAGCAAGAAAAACCCAT
GCTGCGGAGAGAGATCGGGAAGCTGACAGAGGAGCTGAAGCACCTGACAGAGGCACTGAAGGAGCACGAGAAGAT
GTGCCCCTGCTGCTCTGCCCTATGAACTTTGTGCCAGTGCCTCCCCGGCCGGACCCTGTGGCCGGCTGCTTGCC
CCGATGAAGCCGGGGACACTCCTCTGCCCAGCAAGGAGCCTTGGTCATTTTCATACCTGGGAGGAAGGCTTTTCC
TTCACAATTGTATACAGGGGGCACCTGTGGCCAGGCCTCCTCCTGGGAGCTCCAGGACCAGCCAGCTGTGTTCCC
TGCAGACTGGGCTCAGCCCGACATCCAACAGGCGCCAACTCACAGAGCCCTTGTGCAGATCCAGCATGGAGGCC
ACCCTCAGGAGTGACTTCTCATCCACCCTGGCAGCTAGTAGGTTCTGCTGTTATGCAGAGCCATTTCTCTAGAA
TTTGATAATAAAGATGCTTATTGTCTCTCCCTTCTCCAGTTCTGGGAATTTACAGGCACAATACACTTCCTTTT
CCTGG

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FIGURE 1312

MSQGLPAAGSVLQRSVAAPGNQPQPQPQQSPEDDDRKVRREKNRVAAQSRKKQTQKADKLHEEYESLEQENT
MLRREIGKLTEELKHLTEALKEHEKMCPLLLCPMNFVPVPPRPDPVAGCLPR

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FIGURE 1313

CACAAGGACATGGACGTGGACATCCTGGCCCTGGTCAATGACACCGTGGGGACCATGATGACCTGTGCCTATGAC
GACCCCTACTGCGAAGTTGGTGTTCATCATCGGAACGGCACCAATGCGTGTTACATGGAGGACATGAGCAACATT
GACCTGGTGGAGGGCGACGAGGGCAGGATGTGCATCAACACAGAGTGGGGGGCCCTTCGGGGACGACGGGGCCCTG
GAGGACATTTCGCACTGAGTTTCGACAGGGAGCTGGACCTCGGCTCTCTCAACCCAGGAAAGCAACTGTTTCGAGAAG
ATGATCAGTGGCCTGTACCTGGGGGAGCTTGTGAGGCTTATCTTGCTGAAGATGGCCAAGGCTGGCCTCCTGTTT
GGTGGTGAGAAATCTTCAGCTCTCCACACTAAGGGCAAGATCGAAACACGGCACGTGGCTGCCATGGAGAAGTAA
AGAAGGCCCTTGCTAATAACAAGAGAGATCCTGGTGGACCTGGGTCTGGAACCGTCTGAGGCTGACTGCATTGCCGT
CCAGCATGTCTGTACCATCGTCTCCTTCCGCTCGGCCAATCTCTGTGCAGCAGCTCTGGCGGCCATCCTGACACG
CCTCCGGGAGAAACAAGAAGGTGGAACGGCTCCGGACCACAGTGGGGCATGGACGGCACCCCTCTACAAGATAACACC
TCAGTACCCAAAACGCCTGCACAAGGTGGTGAGGAAACTGGTCCCAAGCTGTGATGTCCGCTTCCTCCTGTCAGA
GAGTGGCAGCACCAAGGGGGCCGCCATGGTGACCGCGGTGGCCTCCCGCGTGCAGGCCCAGCGGAAGCAGATCGA
CAGGGTGCTGGCTTTGTTCCAGCTGACCCGAGAGCAGCTCGTGGACGTGCAGGCCAAGATGCGGGCTGAGCTGGA
GTATGGGCTGAAGAAGAAGAGCCACGGGCTGGCCACGGTCAGGATGCTGCCACCTACGTCTGCGGGCTGCCGGA
CGGCACAGAGAAAGGAAAGTTTCTCGCCCTGGATCTTGGGGGAACCAACTTCCGGGTCCTCCTGGTGAAGATCAG
AAGTGGACGGAGGTCACTGCGAATGTACAACAAGATCTTCGCCATCCCCCTGGAGATCATGCAGGGCACTGGTGA
GGAGCTCTTTGATCACATTGTGCAGTGCATCGCCGACTTCCTGGACTACATGGGCCTCAAGGGAGCCTCCCTACC
TTTGGGCTTCACATTCTCATTTCCCTGCAGGCAGATGAGCATTGACAAGGGAACACTCATAGGGTGGACCAAAGG
TTTCAAGGCCACTGACTGTGAAGGGGAGGACGTGGTGGACATGCTCAGGGAAGCCATCAAGAGGAGAAACGAGTT
TGACCTGGACATTGTTGCAGTCGTGAATGATACAGTGGGGACCATGATGACCTGTGGCTATGAAGATCCTAATTG
TGAGATTGGCCTGATTGCAGGAACAGGCAGCAACATGTGCTACATGGAGGACATGAGGAACATCGAGATGGTGA
GGGGGGTGAAGGGAAGATGTGCATCTGTTTTTCATTTGCCTGTGGTTTGTGTTGCAGGTGTTGATAGTTGTTTT
AAGGATTGTTAGGTATAGGAAATCCAGTAAATTAATAAAAAAATTTTGAATTTTCCAATAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1314

MDGTLYKIHQPYPKRLHKVVRKLVPSCDVRFLLESSEGSTKGAAMVTAVASRVQAQRKQIDRVLALFQLTREQLVD
VQAKMRAELEYGLKKKSHGLATVRMLPTYVCGLPDGTEKGKFLALDLGGTNFRVLLVKIRSGRRSVRMYNKIFAI
PLEIMQGTGEELFDHIVQCIADFLDYMGLKGASPLGFTFSFPCRQMSIDKGTLLIGWTKGFKATDCEGEDVVDML
REAIKRRNEFDLDIVAVVNDTVGTMTCGYEDPNCEIGLIAGTGSNMCYMEDMRNIEMVEGEGKMCICFSFCLW
FVLQVLIVVLRIVRYRKSSKLIKKE

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FIGURE 1315

ACGCGGGGATTCTGTGTAATTCCTATCCACAGTCACTTCTGTTCATTTTTAATGAAAACCTATTGCTGTTATTTT
CTATTATGAGTTAACGGTGATGTGTGTTTTTTAAATTTTGTATACTTGCTCTCACCCATAAATATACCTTAAGAG
ACTTTTCCCTGTTTTTCTTTCTGCTTTCCAAGACTCCAGGAAAAACAGCTTCCATGGCACATTTTGTACAGGGC
ACATCTAGAATGATTGCCGCAGAAAGTTCTACGGAGCATAAAGAGTGTGCTGAACCATCAACAAGAAAGAACTTG
ATGAATTCCTTGAACAAAAGATAAGGTGTTTGGAAAAACAAAGAAAAAGAGCTCCTGGAAGTTAACCAGCAATGG
GATCAGCAATTTAGAAGTATGAAAGAGTTATATGAAAGAAAGGTAGCAGAGCTGAAGACGAAACTGGACGCCGCG
GAAAGATTCTCAGCACGCGGGAGAAGGATCCGCATCAGAGGCAGAGAAAAGGACGACAGGCAGAGAGAGGACGAC
AGGCAGCGCGACCTGACCCGGGACCGGCTGCAGCGGGAGGAGAAGGAAAAAGGAACGCCATAATGAAGAATTACAT
GAATTGAAAGAAGAGAATAAAGCTTTTAAAGGGAAAAAATACTCTTGCGAACAAAGGAAAAGGAACATTACGAATGT
GAAATAAACGCCCTCAATAAGGCTCTTCAGGATGCCTTGAATATCAAGTGTTCATTTTCCGAGGACTGTTTGAGG
AAGTCTCGAGTGGAATTCGCCATGAGGAGATGAGAACAGAAATGGAAGTTCTGAAGCAGCAGGTGCAATATAC
GAAGAAGACTTCAAAAAGGAACGATCGGATCGAGAGAGACTTAATCAAGAGAAAGAGGAGCTACAGCAAATTAAT
GAAACTTCCCAATCCCAGTTGAACAGGCTGAATTCCCAGATAAAAGCTTGTGAGATGGAGAAAGAAAAACTAGAA
AAGCAATTAAACAGATGTATTGCCCACCCTGTAAGTGCAGGCTTGTTTTCCACCTGCAAGATCCATGGGTACCA
ACAGGCCCTGGAGCTGTGCAGAAGCAACGGGAGCACCCACCAGACTGTCAGTGGTATGCTCTTGACCAGCTTCCG
CCAGATGTACAACACAAGGCAAATGGTTTTATCCTCAGTAAAGAAAGTCCATCCGTAGAGTACACACTAACAGAG
AGAGACAACAGGCAACGAGGGAGCGTGGCTGAGGACCCTCTTCTTTGTTTATACTGAGGCTTGTTTTCTGCCACAA
AGGCACATCATCTACCCTGTTATTTGTGCCTGGTCATGTTTTCTTTGGTATGAATACAGGAAAAGGCTTCTGAC
AGCTAAGATCCTGATCAAAATTGGAGGAGCCAGTTATTATACAACCAAATACAACCTTCCAGTTTCTTGAAATGAG
ACTTGGCAGATGGATGATGCACGACTCCCTGAAAATCTCTTCAGCATATTGCTGTTGGATGCACAAAAATGATTC
TATGATTTAGGCAACTCAGTGTGTGCTGCAGGGATATTGTATGTTGATTTAAAGTGCATATGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTTTTCTGGGGTAAAAATTTCTGCAGTTGTAAACGTTTAAACATTGCTCCCATTCTTCTCC
ACAGGGCCTTAGTTCTTTAGCTATTTGACTACATATTGTTGACCTCAGTGATCCTAAACGTAGAATTGAAGAGGT
GTATATACCTCGTTAAATTAATAAGTGGTTCAATCTGAATAAGATGGTTAATTGGAAGCTATTCTTAGACAGA
TCATTTCTTTAAGATGGTGAGAAATTGTGCGCCTGCATCACAAGACTTGATTATGAAAGATAAAGTCTTGGGCTG
GGTGCAGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCTGAGGCAGGTGGATTGCTTTGAGGCCAGGAGTT
CTAGACCAGCCTGGCCAGCATGGTGAAACCCCATCTCTACTATAAATACAAAAATTAGCCAGGCTCGTGGCACAC
ACCTATAAACCCAGCTACTCAGGAGGCTTGAGGCGGGAGGATCACTTGAGCCCAGGGAGGCAGAGGTGCTGTAA
GTTGAGATCGCCACTGCACTCCAGCCTGGGAAATAGAGTGAGCAAGACTCAGTGCCCCCTACCCACCCACTCCAC
ACCACCAAAAAAAAAAAAAAAAAAAAAAGGAAGACAAAGTCCTGATGGGATGATGATGGCTATATGGCTATGCTG
TGTCCATATATACTTACAGAAATATTTAGACATATGGATTTATAGTTAAATCTGTGTTTTTCTTCTATGGAT
TTGATTAATTTAATGAAAACTTAATCTGACTCCTCAAGCCAATTAAATGAAAATGGAATTTATTTAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1316

MAHFVQGTSRMIAAESSTEHECAEPSTRKNLMNSLEQKIRCLEKQRKELLEVNQQWDQQFRSMKELYERKVAEL
KTKLDAAERFLSTREKDPHQQRKDDRQREDDRQDRLTRDRLQREEKEKERLNEELHELKEENKLLKGKNTLANK
EKEHYECEIKRLNKALQDALNIKCSFSEDCLRSRVEFCHEEMRTEMEVLKQQVQIYEEDFKKERSDRERLNQEK
FELQQINETSQSQLNRLNSQIKACQMEKEKLEKQLKQMYCPCNCGLVFHLQDPWVPTGPGAVQKQREHPPDCQW
...QLPPDVQHKANGLSSVKKVHP

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FIGURE 1317

CGGCCCCGCTGGAGAGGAAGCCCGAGAGCTGCCGCGCGCCTGCCGGACGAGGGCGTAGAAGCCAGGCGTCAGAGCC
CGGGCTCCGGTGGGGTCCCCCACC CGGCCCTCGGGTCCCCCGCCCCCTGCTCCCTGCCCATCCCAGCCACGCGA
CCCTCTCGCGCGCGGAGGGGCGGGTCTCGACGGCTACGGGAAGGTGCCAGCCCGCCCCG**GATCGGC**ATCGTGGA
GCCGGGTTCGGGAGACATGCTGACGGGCACCGAGCCGATGCCGGGGAGCGACGAGGGCCGGGCGCCTGGCGCCGA
CCCCGAGCACC GCTACTTCTACCCGGAGCCGGGCGCGCAGGACGCGGACGAGCGTCGCGGGGGCGGCAGCCTGGG
GTCTCCCTACCCGGGGGGCGCCTTGGTGCCCGCCCCGCGAGCCGCTTCCTTGGAGCCTACGCCTACCCGCCGCG
ACCCAGCGGGCCGGCTTCCCCGGCGCGGGCGAGTCCTTCCCGCCGCCCGCGGACGCCGAGGGCTACCAGCCGGG
CGAGGGCTACGCCGCCCGGACCCGCGCGCGGGCTCTACCCGGGGCCGCGTGAGGACTACGCGCTACCCGCCGG
ACTGGAGGTGTCGGGGAAACTGAGGGTCGCGCTCAACAACCACTGTTGTGGTCCAAGTTTAATCAGCACCAGAC
AGAGATGATCATACCAAGCAGGGACGGCGGATGTTCCCATTCCTGTCAATTACTGTGGCCGGGCTGGAGCCAC
CAGCCACTACAGGATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCCTGGCGGTACCAGAGCGGCAAGTGGGT
GCAGTGTGGAAAGGCCGAGGGCAGCATGCCAGGAAACCGCCTGTACGTCCACCCGGACTCCCCAACACAGGAGC
GCACTGGATGCGCCAGGAAGTTTCATTTGGGAAACTAAAGCTCACAAACAACAAGGGGGCGTCCAACAATGTGAC
CCAGATGATTGTGCTCCAGTCCCTCCATAAGTACCAGCCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCC
AGAGGCAGCCTGCAACGCTTCCAACACGCATATCTTTACTTTCCAAGAAACCCAGTTCATTGCCGTGACTGCCTA
CCAGATGCCGAGATTACTCAGCTGAAAATTGATAATAACCCCTTTGCCAAAGGATTCCGGGAGAACTTTGAGTC
CATGTACACATCTGTTGACACCAGCATCCCTCCCCGCTGGACCCAACGTCAATTCCCTTGGGGGAGATCACTA
CTCTCCTCTCCTACCCAACCAGTATCCTGTTCCAGCCGCTTCTACCCGACCTTCCTGGCCAGGCGAAGGATGT
GGTTCCCCAGGCTTACTGGCTGGGGGCCCCCGGGACCACAGCTATGAGGCTGAGTTTCGAGCAGTCAGCATGAA
GCCTGCATTCTTGCCCTCTGCCCCTGGGCCCCACCATGTCTACTACCGAGGCCAGGAGTCTTGGCACCTGGAGC
TGGCTGGCCTGTGGCACCCAGTACCCTCCCAAGATGGGCCCCGGCCAGCTGGTTCGGCCCTATGCGGACTCTGCC
CATGGAACCCGGCCCTGGAGGCTCAGAGGGACGGGGACCAGAGGACCAGGGTCCCCCTTGGTGTGGACTGAGAT
TGCCCCCATCCGGCCGGAATCCAGTGATTCAGGACTGGGCGAAGGAGACTCTAAGAGGAGGCGCGTGTCCCCCTA
TCCTTCCAGTGGTGACAGCTCCTCCCCCTGCTGGGGCCCCCTTCTCCTTTTGATAAGGAAGCTGAAGGACAGTTTA
TAACTATTTTCCCAACT**GAGC**AGATGACATGATGAAAGGAACAGAAACAGTGTTATTAGGTTGGAGGACACCGAC
TAATTTGGGAAACGGATGAAGGACTGAGAAGGCCCCCGCTCCCTCTGGCCCTTCTCTGTTTAGTAGTTGGTTGGG
GAAGTGGGGCTCAAGAAGGATTTTGGGGTTACCAAGATGCTTCCTGGCCACGATGAAACCTGAGAGGGGTGTCC
CCTTGCCCCATCCTCTGCCCTAACTACAGTCGTTTACCTGGTGCTGCGTCTTGCTTTTGGTTTCCAGCTGGAGAA
AAGAAGACAAGAAAGTCTTGGGCATGAAGGAGCTTTTTCATCTAGTGGGTGGGAGGGGTGAGGTGTGGGACATG
GGAGCAGGAGACTCCACTTTCTTCCCTTTGTACAGTAACCTTTTCAACCTTTTCGTTGGCATGTGTGTTAATCCCTGA
TCCAAAAAGAACAATAACAGTATGTTATAACCATCAGCCCGCCAGGGTCAGGGAAAGGACTCACCTGACTTTGG
ACAGCTGGCCTGGGCTCCCCCTGCTCAAAACAGTGGGGATCAGAGAAAAGGGGCTGGAAAGGGGGGAATGGCCC
ACATCTCAAGAAGCAAGATATTGTTTGTGGTGGTTGTGTGTGGGTGTGTGTTTTTCTTTTTCTTTCTTTTATT
TTTTTTGAATGGGGGAGGCTATTTATTGTACTGAGAGTGGTGTCTGGATATATTCCTTTTGTCTTCATCACTTTC
TGAAAATAAACATAAACTGTTAAAAAAAAAAAAAAAAAA

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FIGURE 1318

MGIVEPGCGDMLTGTEPMPGSDEGRAPGADPQHRYFYPEPGAQDADERRGGGSLGSPYPGGALVPAPPSRFLGAY
AYPPRPQAAGFPGAGESFPPPADAEGYQPGEGYAAPDPRAGLYPGPREDYALPAGLEVSGKLRVALNNHLLWSKF
NQHQTEMIITKQGRRMFPFLSFTVAGLEPTSHYRMFVDVVLVDQHHWRYQSGKWVQCGKAEGSMPGNRLYVHPDS
PNTGAHWMRQEVSFGLKLTNNKGASNNVTQMIVLQSLHKYQPRLHIVEVNDGEPEAACNASNTHIFTFQETQFI
AVTAYQNAEITQLKIDNNPFAKGFRENFESMYTSVDTSSIPSPGPNCQFLGGDHYSPLLPNQYPVPSRFYPDLPG
QAKDVVPQAYWLGAPRDHSYEAEFRAVSMKPAFLPSAPGPTMSYYRGQEV LAPGAGWPVAPQYPPKMGPASWFRP
MRTLPMFPGPGGSEGRGPEDQGPPLVWTEIAPIRPESSDSGLGEGDSKRRRVSPYPSSGDSSSPAGAPSPFDKEA
EGQFYNYFPN

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FIGURE 1319

ACCGTCTTCCGCCGCACGTGGATTGAGCGCGATGCCCAAATCCAAGCGCGACAAGAAAGTCTCCTTAACCAAAC
TGCCAAGAAAGGCTTGGAATTGAAACAAAACCTGATAGAAGAGCTTCGGAAATGTGTGGACACCTACAAGTACCT
TTTCATCTTCTCTGTGGCCAACATGAGGAACAGCAAGCTGAAGGACATCCGGAACGCCTGGAAGCACAGCCGGAT
GTTCTTTGGCAAAAACAAGGTGATGATGGTGGCCTTGGGTCGGAGCCCATCTGATGAATACAAAGACAACCTGCA
CCAGGTCAGCAAAAGGTTGAGGGGTGAGGTGGGTCTCCTGTTACCAACCGCACAAAGGAAGAGGTGAATGAGTG
GTTACGAAATACACAGAAATGGACTACGCCCAGCTGGTAACAAAGCAGCTTTCCTGTGAGCCTGGATCCAGG
GCCCCTGAGCAGTTCCCCACTCCATGGAGCCACAGCTCAGGCAGCTGGGCCTGCCACCGCCCTCAAGAGAGG
TGTGGTGAAGTCTGCTGTCTGACTACGAGGTGTGCAAGGAGGGCGATGTGCTGACCCAGAGCAGGCTCGCGTCTT
GAAGCTTTTTGGGTATGAGATGGCTGAATTCAAGGTGACCATCAAATACATGTGGGATTACAGTCGGGAAGGTT
CCAGCAGATGGGAGACGACTTGCCAGAGAGCGCATCTGAGTCCACAGAAGAGTCAGACTCAGAAGATGATGACTG
AAAGGGACTCGGGACTGAAGGTCTCCTGGAAGCTTCTGGGTCTCACTGGACCATCAGGACTGCTGCCGCCCCCTCT
GGAGAGAGCAGCTTTTTATTTGTCTGTAGACAGGGAACATGATGGGCACTGACCTCCTGTAAAGAATAAACTGT
GGGCCGGGCGCGGTGGCTCACGCCTGGAATCCCAGCACTTTGGGAAGCCGAGGTGGGCAGATCATAAGGTCAGGA
GATTAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATAGAAAAAAAAGTGTGGGCATAG
TGGCATGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGTTG
CCGTGAGTTGAGATTGGACCACTGCTCTCCAGCCTGGGCAACAGAGTAAAACTCTGTCCC

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FIGURE 1320

MPKSKRDKKVSLTKTAKKGLELKQNLIEELRKCVDTYKYLFI FSVANMRNSKLKDIRNAWKHSRMFFGKNKVMV
ALGRSPSDEYKDNLHQVSKRLRGEVGLLFTNRTKEEVNEWFTKYTEM DYARAGNKA AFTVSLDPGPLEQFPHSME
PQLRQLGLPTALKRGVVTLLSDYEVCKEGDVLTP EQARVLKLF GYEMAEFKVTIKYMWDSQSGRFQQMGDDL PES
ASESTEESEDSEDD

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FIGURE 1321A

GGGTCGAGGTCGACGGTATCGATAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTTCCCTCCCCCTCCCTC
TCCAAGCCGGAGGGTCTGAGGTGACAGCGCTGCAACTGAAATTTAGCAGCGGGAGAAGATGGACAAGAGAA
AGCTCGGGCGACGGCCATCTTCATCCGAAATCATCACAGAAGGAAAAAGGAAAAAGTCATCTTCTGATTTATCGG
AGATAAGAAAGATGTTAAATGCAAAACCAGAGGATGTCCATGTTCAATCACCAGTGTCCAAATTCAGAAGCTCAG
AACGCTGGACTCTCCCTTTGCAGTGGGAAAGAAGCCTAAGGAATAAAGTCATCTCTCTAGACCATAAAAAATAAAA
AACATATCCGAGGGTGTCTGTACTTCCAGGTATCACCAGAAAGGATAACCCAGAGTTATATTGACGAATGTCC
TGGGAACGGAGTTAGGAAGAAAAATACATAAGGACCCACCTGTAAGTGAAGGAAAGTTGAGTGATACAGACAAC
TGCAATCAGAGCAACTTTCTTCATCATCTGATGGCAGCCTAGAATCTTATCAAAATCTAAACCTCACAAGAGCT
GTTATTTATCTGAAAGGGGCTCACAACGAAGTAAGACAGTAGATGACAATTCTGCAAGCAGACTGCGCACAATA
AAGAAAAACGAAGAAAGGATGATGGCATTCTCTTTTAAATATCTGATACTCAGCCTGAAGACCTTAACAGTGGA
GTAGAGGTTGTGATCATCTCGAACAGGAAAGCAGAAACAAGGATGTTAAATATTCTGATTCAAAGTGGAAC
CTCTGATTTCCAGGAAGACAAAGAGAAGGCTTAGAAATAATTTACCTGATTCTCAATATTGTACTTCTTTGGATA
AGTCAACAGAACAGACAAAAACAAGAAGATGACTCAACAATATCCACTGAGTTTGAAAGGCCAAGTGAAAAC
ATCATCAGGATCCAAAACCTGCCTGAAGAAATTACAATAAACCTACAAAAAGTGATTTTACTAAGCTATCCTCAC
TTAACAGTCAGGAGTTGACTTTGAGTAATGCCACCAAAAGTGCCTCTGCCGGTTCAACCACTGAAACCGTTGAGT
ACTCTAATTCATTGATATTGTGGGGATTTCTTCCCTGGTTGAGAAGGATGAGAATGAGTTGAATACCATAGAAA
AGCCTATTCTAAGAGGACATAATGAAGGAACCAATCACTGATCTCAGCTGAACCAATTGTTGTTTCCAGTGATG
AAGAAGGACCTGTTGAACATAAAAGTTGAGAAATCTTAAGTTACAATCTAAGCAAGACCGTGAGACAACATAATG
AAAAATGAGAGTACTTCTGAATCAGCATTGTTAGAACTACCATTGATTACATGTGAATCTGTACAGATGTCATCTG
AATTATGCCCATATAATCCTGTCTGATGGAGAACATTTCCAGTATTATGCCTAGTAATGAGATGGATCTACAACCTGG
ATTTTATATTTACTTCTGTTTATATTGGTAAATAAAAGGAGCTTCTAAAGGTTGTGTTACAATCACAAAAAAT
ATATTAAGATCCCATTTCAGTGTCCCTGAATGAGATTTCAATTGCTAGTGATACACACATTTAAAGCGGTTTG
GGTTATGGAAAAGTAAGGATGATAATCACAGTAAAAGGAGTCATGCTATTCTTTTCTTCTGGGTCTCTTCAGATT
ATCTTCAAGAGATTGAGACCAATTAGAACACTCTGTATTAAGCCAGCAATCAAATCTAGTGAATTCATTTTCC
TTGAACTACACAATCCTGTTTTCAGAGAGAAGAATTGAAGCTGAAAGATATTATGACGGAAATAAGTATAATCA
GTGGAGAATTAGAGCTTTCTTACCCGTTGTCTTGGGTTTCAGGCATTTCTTTGTTTCAGAACCTCTCTTCAAAG
AAAGTTCTTTTATTCAATTATTACTGTGTTTCAACTTGTTCTTTCCCTGCTGGTGTGCTGTGCTGAAGAAATGA
AGCTGAAATCAGTATCTCAGCCCTCAAACACAGATGCGGCCAAGCCTACTTACACCTTCTGTCAGAAAGCAAGTA
GCGGTTGCTACTCCCTTTCTATTACATCTAATCCAGATGAAGAATGGCGGGAAGTCAGGCACACTGGACTTGTT
AGAAGTTGATTGTATATCTCCACCACCTACTAAGGGGGGATTGGGAGTAACTAATGAAGATCTGGAGTGTTAG
AAGAAGGAGAGTTTCTTAATGATGTAATCATTGATTTTTACCTTAAGTATCTTATATTGGAGAAGGCATCAGATG
AACTTGTTGAACGAAGTCACATTTTTAGTAGCTTTTTCTATAAATGCTTGACAAGAAAGGAAAAATAATTTAACAG
AAGATAATCCAAATCTTTCAATGGCACAGAGAAGACATAAAAGAGTAAGAACATGGACTCGTCACATAAACATTT
TTAATAAAGATTACATCTTTGTACCTGTAAATGAGTCGTCTCACTGGTATCTCGCAGTCATTTGTTTTCCATGGT
TAGAAGAAGCTGTGTATGAAGATTTCCACAAACTGTATCCCAGCAGTCCCAGGCTCAGCAGTCCCAAAGTGACA
ACAAAACAATAGATAATGATCTACGTACTACTTCGACACTGTCTTTGAGTGACAGAGGATTCCCAAAGTACCGAGT
CGAATATGTCAGTACCAAAGAAAATGTGTAAAAGGCCATGTATTCTTATACTAGACTCCTTGAAAGCTGCTTCTG
TACGAAACACAGTTTCAAAATTTACGAGAGTATTTAGAGGTAGAGTGGGAAGTTAAACTAAAACTCATCGTCAAT
TCAGCAAAACAAACATGGTGGATCTATGCCCTAAAGTTCTTAAACAGGACAATAGCAGTGATTGTGGAGTATATT
TATTGCAGTATGTGGAAGCTTCTTCAAGGATCCTATTGTTAACTTTGAACCTCCAATTCATTTGGAGAAGTGGT
TTCTCGTCATGTAATAAAGACCAACCGGGAAGATATTCGAGAGCTCATCTTGAAACTTCATTTACAGCAACAGA
AGGGCAGCAGTAGCTAGTTAATCTGTACAAACATGACACAGATGTTCTCTAAGATTACTGGAAGCCCCCTTACCA
GCATTTGTGTTAGCCAGCTCACAGAGAAGAAATAAAGTGCAGTAGTTTTATAATAAGTCATTGGAACATTATTT
AAAATATGTAGGACACATTATTAGAATTGTTGGGATCTCATAGATGGAATGGGAATGGGGGTGATATAGATAAAC
TTACTAGATATAAATTTAAATTTTATAAATATTTTCTAGTAAATATGATTGGATTATGCAACAGCA
TATGTAATATGGGAATGTTTTGTAGATAATAAAGTACATGATCTGTACTTCCACGTGACTGGGTGCTGAGGGG
AGTTAAAGCCTCCCTGGTGCCAGCCCCAGTGCTTGTCAAATTTGCTGACAGGTCACATCATATTGTAATTTCTATT
CTTTGCAGCTCAAGCATGCAGTATGAATACTGTGTATTTTTTAAAAAATAATTTAGTATCAAGGCTTCAGAAAA

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FIGURE 1321B

TGCCATTTACGGCATCCCTTCTGTATGTAACAAAAAGACATTCATAATGTTAGGAAGATGATAAAAAATTCGCTCT
TTTAAAGTGCAGCTTATTATTCTCAATTGCTAAATACGATTACTCTGCTTTTTTTTTTTTCATTTCTTTTGATGTC
ATATGTGAGTATCTTATAATTTAGTTCATTTGTTTCAGGGTAAAATTTGAAACAAAAAATTTTACCTGTGCAAAAT
AGTTTTTTTAAAAATTATACATGTAGCTCAACTTGAGGTACTGCTATATAAATATTCACTCACATTATCACGGAAT
AGTATAGTTTCTCTAATATAGAAGATAAAATTGGTGTCTCATAACTTTAACAAAGAAAACCTCAGTCCTA
ATTAAATGGGTAGAATTAATATATAATTTTATAGCTCAGTTTACCCAGTATTCATCTGCAAAGCCAGATTGC
CATTTGCTTTTATATTTTTAAATTGTAGCTTTTAGAGACCTATGATCCTCATGGAACCTAATTTTTTATTAA
TATTCAGGTAACAGTTCTGAATTCATGTGATAATGGTGGCATTATATATGATTAAACACTTCAGAACTTTCTAAT
TATCAGGAGTATTTTGGAGGGAGATATGATTATATTGTATTTTCTCAGATAAGAAAAATGTTTTTTAACAATAT
TATTAATCTGTTTTAAGCATCTCTTAGATTTACATTATAACTACATAAAGCAGTGAAGCAAAGGCAAATTAAG
TAAAGCTAGAAAGTCTGAACATTTTATTTCAAATCATAACGAATCGGGTCAGTTAAGCCTCAGTATTCTTAGC
TGTGATTTTGGCACTATCTTTATATTATTAAATATATTTGTTGTTTGGATATTTTATATAAAGATGGCTAT
TATACATATTTTATCCCAATTTGTGTGTGTTGGGGGTACTTTTAAAGGTGACTATTGTTTTGTACATCTAAT
TTGGGAAACCAAGTCTATAAGACATCTTGTGATTTCTTAATGTTTTTGTGTTGTTGTTTCAAAGATATCACT
GTCTTTTATCATGTTTTGAAGATTGTTTTAAATTCATTTTCTTAAATTAATGTGCAAGTAATGTTTTGAGGATAT
CGGTGTTTTATATTAAACATATTTCCAATTCAAAAAATACTTATCGATACCGTCGACCTCGATG
ATGATGATGATGATGATGATGTCGAC

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FIGURE 1322

MDKRKLGRPPSSSEIITEGKRKKSSSDLSEIRKMLNAKPEDVHVQSPLSKFRSSERWTLPLQWERSLRNKVISLD
HKNKKHIRGCPVTSRSSPERIPRVILT NVLGTELGRKYIRTPPVTEGSLSDTDNLQSEQLSSSSDGSLESYQNLN
PHKSCYLSEGRSQRSKTVDDNSAKQTAHNKEKRRKDDGISLLISDTQPEDLNSGSRGCDHLEQESRNKDVKYSDS
KVELTLISRKT RRLRNNLPDSQYCTSLDKSTEQTKKQEDDSTISTEFERPSSENYHQDPKLPEEITTKPTKSDF
KLSSLNSQELTSLNATKSASAGSTTETVEYSNSIDIVGISSLVEKDENE LNTIEKPILRGHNEGNQSLISAEP
IVSSDEEGPVEHKSSEILKLQSKQDRETTNENESTSESALLELPITCESVQMSSELCPYNPV MENISSIMPSNEM
DLQLDFIFTSVYIGKIKGASKGCVTITKKYIKIPFQVSLNEISLLVD TTHLKRFGWLKSKDDNHSKRSHAILFFW
VSSDYLQEIQTQLEHSVLSQQKSSEFIFLELHNPVSQREELKLKDIMTEISIISGELELSYPLSWVQAFPLFQ
LSSKESFIHYCVSTCSFPAGVAVAEEMKLKSVSQPSNTDAAKPTYTFLQKQSSGCYSLSITSNPDEEWREVRH
TGLVQKLIVYPPPTKGGLGVTNEDLECLEEGEFLNDVIIDFYLYLILEKASDELVERSHIFSSFFYKCLTRKE
NNLTEDNPNLSMAQRRHKRVRTWTRHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQQSQAQQ
SQSDNKTIDNDLRTTSTLSLSAEDSQSTESNMSVPKMKRKCILILDSLKAASVRNTVQNLREYLEVEWEVKLK
THRQFSKTNMVDLCPKVPKQDNSSDCGVYLLQYVESFFKDP IVNFELPIHLEKWFP RHVIKTKREDIRELILKLH
LQQQKGSSS

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FIGURE 1323

GGGGACTTCCGGAGACCTCACACAAGATGGCGGCACCCGAGGAACACGATTCTCCGACCGAAGCGTCCCAGCCGA
TTGTGGAAGAGGAGGAACTAAAACATTTAAAGACCTGGGTGTGACAGATGTGTTGTGTGAAGCTTGTGACCAGT
TGGGATGGACAAAACCCACCAAGATTGAGATTGAAGCTATTCTTTGGCCTTACAAGGTCGTGATATCATTGGGC
TTGCAGAACTGGCTCTGGAAGACAGGCGCCTTTGCTTTGCCATTCTAAACGCACTGCTGGAGACCCCGCAGC
GTTTGTGTTGCCCTAGTTCTTACCCCGACTCGGGAGCTGGCCTTTCAGATCTCAGAGCAGTTTGAAGCCCTGGGGT
CCTCTATTGGAGTGCAGAGTGCTGTGATTGTAGGTGGAATTGATTCAATGTCTCAATCTTTGGCCCTTGCAAAAA
AACCACATATAATAATAGCAACTCCTGGTTCGACTGATTGACCCTTGGAAAATACGAAAGGTTTCAACTTGAGAG
CTCTCAAATACCTGGTCAATGGATGAAGCCGACCGAATACTGAATATGGATTTTGAGACAGAGGTTGACAAGATCC
TCAAAGTGATTCTCGAGATCGGAAAACATTCTCTTCTCTGCCACCATGACCAAGAAGGTTCAAAAACCTTCAGC
GAGCAGCTCTGAAGAATCCTGTGAAATGTGCCGTTTCTCTAAATACAGACAGTTGAAAAATTACAGCAATATT
ATATTTTTTATTCCTCTAAATTCAAGGATACCTACCTGGTTTATATTCTAAATGAATTGGCTGGAACTCCTTTA
TGATATTCTGCAGCACCTGTAATAATACCCAGAGAACAGCTTTGCTACTGCGAAATCTTGGCTTCACTGCCATCC
CCCTCCATGGACAAATGAGTCAGAGTAAGCGCCTAGGATCCCTTAATAAGTTTAAGGCCAAGGCCCGTTCCATTCT
TTCTAGCAACTGACGTTGCCAGCCGAGGTTTGGACATACCTCATGTAGATGTGGTTGTCAACTTTGACATTCTTA
CCCATTCCAAGGATTACATCCATCGAGTAGGTGCAACAGCTAGAGCTGGGCGCTCCGGAAGGCTATTACTTTTG
TCACACAGTATGATGTGGAACCTTCCAGCGCATAGAACACTTAATTGGGAAGAACTACCAGGTTTCCAACAC
AGGATGATGAGGTTATGATGCTGACAGAACGCGTCGCTGAAGCCCAAAGGTTTGCCGAATGGAGTTAAGGGAGC
ATGGAGAAAAGAAGAAACGCTCGCGAGAGGATGCTGGAGATAATGATGACACAGAGGGTGCTATTGGTGTGAGGA
ACAAGGTGGCTGGAGGAAAAATGAAGAAGCGGAAAGGCCGTTAATCACTTTTATGAAGGCTCGAGTTCTGCTGTT
CTGTAAAAGAAAATTGGAGAATGAAACCTGCTCCAACAGAGATCATGAGACTGAAATTGGTCAGAATTGTGTCCA
GAATGTGCTCAGCTAATTCAGTATTCTTCCCCATTCTGGGTTGGAGTTTACTGCAGAGTAATTCTTACAGTGCTG
ATGTCAAGACTGTTACTGTTCTTCGACTTTGATTCCCTTGCTCATGACATGAGTAGGGTGTGCTCTTCTGTCACTT
CACACAGACCTTTTGCCCTTTTGTAGCTGCAAGTCAAGGACTAGGTTGATGATGCCATGACCTGTAATTGTAAAG
AAGCTTGGACATCTGCAATGATATTTAAACCATCTTGGCTTGTGCTTTATTCAAATAATGTGAAACAATAAAT
TTAAATATTATTTTTTAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1324

MAAPEEHDSPTASQPIVEEEETKTFKDLGVTDVLCACDQLGWTKPTKIQIEAIPALQGRDIIIGLAETGSGKT
GAFALPILNALLETPQRLFALVLTPTRELAFOISEQFEALGSSIGVQSAVIVGGIDSMSQSLALAKKPHIIIATP
GRLIDHLENTKGFNLRALKYLVMDADRILNMDFETEVDKILKVIPDRKTFLEFSATMTKKVQKLQRAALKNPVK
CAVSSKYQTVEKLQQYYIFIPSKFKDTYLVYILNELAGNSFMIFCSTCNNTQRTALLLRNLGFTAIPLHGQMSQS
KRLGSLNKFKAKARSILLATDVASRGLDIPHVDVVNFIDIPTHSKDYIHRVGRTARAGRSKAITFVTQYDVELF
QRIEHLIGKKLPGFPTQDDEVMMLETERVAEAQRFARMELREHGEKKKRSREDAGDNDDTEGAIGVRNKVAGGKMK
KRKGR

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FIGURE 1325

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTTCGGTCCTCCTTGGCTGACTCACCGCCCTCGCCGCCGCAC
CATGGACGCCCCCAGGCAGGTGGTCAACTTTGGGCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTTGTTAGAGAT
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTTCTTGAAATGAGTCACAGGTCATCAGATTTTGC
CAAGATTATTAACAATACAGAGAATCTTGTCGGGAATTGCTAGCTGTTCCAGACAACATAAGGTGATTTTTCT
GCAAGGAGGTGGGTGCGGCCAGTTCAGTGCTGTCCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA
CTATGTGGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAAGAAGCCAAGAAGTTTGGGACTATAAATATCGTTCA
CCCTAAACTTGGGAGTTATACAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA
TTATTGCGCAAATGAGACGGTGCATGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGGTTTG
TGACATGTCCTCAAACCTTCCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA
GAATGTTGGCTCTGCTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGCTGGGGTTTGCCCTCCGAGAGTGCCC
CTCGGTCCTGGAATACAAGGTGCAGGCTGGAACAGCTCCTTGTACAACACGCCTCCATGTTTCAGCATCTACGT
CATGGGCTTGGTTCCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGCCATGGAGAAGCTTAGCTCCATCAAATC
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAA
GATGAATATTCCATTCCGCATTGGCAATGCCAAAGGAGATGATGCTTTAGAAAAAGATTTCTTGATAAAGCTCT
TGAACCTCAATATGTTGTCTTGAAAGGGCATAGGTCTGTGGGAGGCATCCGGGCCTCTCTGTATAATGCTGTCAC
AATTGAAGACGTTCAGAAGCTGGCCGCCTTCATGAAAAAATTTTTGGAGATGCATCAGCTATTGAACACATCCTAA
CCAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAAAAGTTAACACAG
TATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTGAAGAACAACAGCAAAACATCCACAACCTCT
GTAAAGCTGGTGGGACCTAATGTCACCTTAATTCTGACTTGAAGTGAAGCATTTTAAGAAATCTTGTTGCTTTT
CTAACAAATTCCCGCGTATTTTGCCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCTGTGGACTTAAT
AATGCAAGTTGCGATTAATTATTTCTGGAGTCATGGGAACACACAGCACAGAGGGTAGGGGGGCCCTCTAGGTGC
TGAATCTACACATCTGTGGGGTCTCCTGGGTTTCAGCGGCTGTTGATTCAAGGTCAACATTGACCATTGGAGGAGT
GGTTTAAGAGTGCCAGGCGAAGGGCAAACCTGTAGATCGATCTTTATGCTGTTATTACAGGAGAAGTGACATACTT
TATATATGTTTATATTAGCAAGGTCTGTTTTTAATACCATATACTTTATATTTCTATACATTTATATTTCTAATA
ATACAGTTATCACTGATATATGTAGACACTTTTAGAATTTATTAAATCCTTGACCTTGTGCATTATAGCATTCCA
TTAGCAAGAGTTGTACCCCTCCCGAGTCTTCGCCTTCCTCTTTTTAAGCTGTTTTATGAAAAAGACCTAGAAGT
TCTTGATTCATTTTTACCATTCTTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTTTCAATTATGCCA
TTAAACTAAACATTTCTGTAAATTACCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGTATGACTACGAGA
GTGATACTTTGCTGAAAAGTCTTTCCCTATTGTTTATCTATTGTGTCAGTATTTTATGTTGAATATGTAAAGAACA
TTAAAGTCCTAAACATCTAAAAA

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FIGURE 1326

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAPVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNLNPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECP
SVLEYKVQAGNSSLYNTPPCFSIYVMGLVLEWIKNNGGAAAMEKLSSIKSQTIIYEIIDNSQGFYVCPVEPQNRSK
MNIPFRIGNAKGDDALEKRFLDKALELNMLSLKGHRVSGGIRASLYNAVTTIEDVQKLA AFMKKFLEMHQL

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FIGURE 1327

CIAAAGTGGAGCCCAGCGGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCG
CGGTCCGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGCGCAGAGAATGGAAAAAATTGTGACCAGAGACGTG
TAGCAATGAACAAGGAACATCATAATGGAAATTTACAGACCCCTCTTCAGTGAATGAAAAGAAGAGGAGGGAGC
GGGAAGAAAGGCAGAATATTGTCTGTGGAGACAGCCGCTCATTACCTTGCAGTATTTTTCTCTGGAAATCCTTG
CTTGAAGGAATGGACCTCAAAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTGCTTGCTG
ATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTTGT
CTACTGGATAGGCTTAGGAATTTTGTCTTCTGTTGGGCTTGGAAACAGGGCTGCACACCTTTCTGCTTTATC
GGGTCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTTCCCGAACCACCCTATC
ATCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACATTTCTTTGTGGAGTATCATCTCAAAGTTA
ATGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTTCATGGCCAGAGCAGCTC
CTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCAC
ACTTTGCCTCCCGGGCCAAACTGGCAGTTCAAAAAGTAGTACAGAAAGTTGGATTTTTTGGAAATTTTGGCCT
CTTCAATTCCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTTTGGACCT
TTTGGTGCAACCCTAATTGGAAAAGCAATAATAAAAATGCATATCCAGAAAAATTTTTGTTATAATAACATTCA
GCAAGCACATAGTGGAGCAAATGGTGGCTTTTATTGGTGTCTGTCCCCGGCATAGGTCCATCTCTGCAGAAGCCAT
TCAGGAGTACCTGGAGGCTCAACGGCAGAAGCTTCACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAAC
GGTTGTCTGGATGTTTGAAGAGTTGGTCGTTGTGTCATGGTGTGTTACTTCATCCTATCTATCATTAACTCCATGG
CACAAAGTTATGCCAAACGAATCCAGCAGCGGTTGAACTCAGAGGAGAAAACTAAATAGTAGAGAAAGTTTTAA
ACTGCAGAAATTGGAGTGGATGGGTTCTGCCTTAAATTGGGAGGACTCCAAGCCGGGAAGGAAAATTCCCTTTTC
CAACCTGTATCAATTTTTACAACTTTTTCTGAAAGCAGTTTAGTCCATACTTTGCACTGACATACTTTTTCT
TCTGTGCTAAGGTAAGGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGGAAATGTGATGTTTACG
AGCAAACCTTGCAACAGACTGGCCTTCTGTTTGTACTTTCAAAGGCCACATGATACAATTAGAGAATTTCCAC
CGCACAAAAAAGTTCCTAAGTATGTTAAATATGTCAAGCTTTTAGGCTTGTACAAATGATTGCTTTGTTTTT
CTAAGTCATCAAATGTATATAAATTATCTAGATTGGATAACAGTCTTGCATGTTTATCATGTTACAATTTAATA
TTCCATCCTGCCCAACCCTTCTCTCCCATCCTCAAAAAAGGGCCATTTTATGATGCATTGCACACCCTCTGGGG
AAATTGATCTTTAAATTTTGTAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTT
TATTCTGTGATTTAGAATGAAGTCTTGAAGAAAACTTTATAAAGACATCTTTAATCATTCCAAAATTGTGTCCG
TTTTCTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCCATATCCACCTACAAC
AAGAATTTCTTAAGCTTTCTTTTATTTGCATGAGAGAGCCACTACCAAGGCATGTTTTGTTATGCTGAAACTGGG
CTGCTGCATACTGCTAAATGGCACCTCTGGGATTGGCCTACCTGGGGATTTCTTGGTTTGTGAAAACAGGAGAGG
AGAAATATCTCATACAAGTGAAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAAACCACACTCTGTCC
TATCTGTGTTAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCCAGTTTTCTTG
CCGTTCTGTAAGTGTGTTTTATTCTTAGTGTGATTTTTTCCATTGGGATGTTTTTGATTGAACTTGTTCATTTTGT
TTTGCTTGGGAGGAAAATAACAATTTTACTTTTTTCTTAAAAA

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FIGURE 1328

MAENGKNCQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIVVSFLLLLAVLIATYYVEGVHQQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPFIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIIISKVRIEACMWGIGTAIGELPPYFMAARAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLVQKVGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIK
MHIQKIFVITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPOGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRNLNSEEKTK

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FIGURE 1329

CTGTGAGTGACACACGCTGAGTGGGGTGAAGGGAAATGCTGGTGAATTTCAATTTGAGGTGTGGGTTGCTGTTAG
TCACTCTGTCTCTTGCCATTGCCAAGCACAAAGCAATCTTCCTTCACCAAAAGTTGTTACCCAAGGGGAACATTGT
CCCAAGCTGTTGACGCTCTCTATATCAAAGCAGCATGGCTCAAAGCAACGATTCCAGAAGACCGCATAAAAATA
TACGATTATTAAAAAAGAAAACAAAAAGCAGTTTATGAAAACTGTCAATTTCAAGAACAGCTTCTGTCCTTCT
TCATGGAAGACGTTTTTGGTCAACTGCAATTGCAAGGCTGCAAGAAAATACGCTTTGTGGAGGACTTTCATAGCC
TTAGGCAGAAATTGAGCCACTGTATTTCTGTGCTTCATCAGCTAGAGAGATGAAATCCATTACCAGGATGAAAA
GAATATTTTATAGGATTGGAAACAAAGGAATCTACAAAGCCATCAGTGAACGGATATTCTTCTTTCTGGATTA
AAAAATTATTGGAAAGCAGTCAGTAAACCAAAGCCAAGTACATTGATTTTACAGTTATTTTGAAATACAATAAGA
ACTGCTAGAAATATGTTTATAACAGTCTATTTCTTTTAAAAACTTTTTAACATAATACTGACGGCATGTTAGGTG
ATTCAGAATAGACAAGAAGGATTTAGTAAATTAACGTTTTGGATATAAGTTGTCACTAATTTGCACATTTTCTGT
GTTTTCAAATAATGTTTCCATTCTGAACATGTTTTGTCATTCACAAGTACATTGTGTCACTTAATTTAAAGTAT
GTAACCTGAATTAACTCGTGTAATATTTGTGTGTGGAGTGGGATGTGGGGGTGGAGGGGGAATGACAGATTCT
GGAATGCAATGTAATGTTACTGAGACTTAAATAGATGTTATGTATATGATTGTCTGTTAAGTGTGAAAATTG
TTAATTATGCCCAGTGTGAACCTAGTACTTAACACATTTGATTTTAATTAAATAAATTGGGTTTCCTTCTC

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FIGURE 1330

MLVNFILRCGLLLVTLSLAIKHKQSSFTKSCYPRGTLSQAVDALYIKAAWLKATIPEDRIKNIRLLKKKTKKQF
MKNCQFQEQLLSFFMEDVFGQLQLQGCKKIRFVEDFHSLRQKLSHCISCASSAREMKSITRMKRIFYRIGNKGIY
KAISELDILLSWIKKLLESSQ

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FIGURE 1331

TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGG
CCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCTCT
TGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAACCTCCAGCAGCCCTATA
TCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGCTGATAACAACACAGACGTTTCGTCTCATTGGGG
AGAAACTGTTCCACGGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAG
AAGTGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAGCA
ACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAG
TGAAAAAGCTTGGAGAGAGTGGAGAGATCAAAGCAATTGGAGAACTGGATTGCTGTTTATGTCTCTGAGAAATG
CCTGCATTTGACCAGAGCAAAGCTGAAAAATGAATAACTAACCCCTTCCCTGCTAGAAATAACAATTAGATGC
CCCAAAGCGATTTTT

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FIGURE 1332

MAALQKSVSSFLMGTLATSCLLLLALLVQGGAAAPISSHCRDKSNFQQPYITNRTFMLAKEASLADNNTDVRLI
GEKLFHGVSMSERCYLMKQVLNFTLEEVLPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKD
TVKKLGESGEIKAIGELDLLFMSLRNACI

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FIGURE 1333

TTTACTTCTGCGTCCCCGGACGCCGTATGTGGAAAGGCGAACCCCTGAGTGGAGGATGTTCCCGCTGCCTAAAGA
ATGATTGACTGTGACTGCACTTTTGTGAGATTATAAATATACCACGGAGGGTAACGAAGCTACAGAAGAATGGAA
GAAGACAGCCTGGAAGACTCAAACCTTTTTCCAAAAGTTTGGCATTCTGAGATGACGGTGTGACGCGACAGGCGAA
CCACCTAGTGCCGTGCGAAGAAGAAGGAATACCTAACGAAACAGACATAGAAATCATGCCAGAAATCCCGGAAACT
AGCCACTGTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGACCAGCTCTTTATT
ACTACATCATGCCCGTTTCAGTACGATGGGAGACAGAGCATCTGCGTGAAAAGCAGAGAATTGAATCTAGAA
AAGGAATCTAGACAAACTTGCAATGGGCCTCAACATGACAAAAATACTCAGTCCGTTACTACCTGTGGAAGGA
CCCAATTTGCCTGATTTACACCCAGAGGCCGTTTCGCTGTGGAGTTTAAACAAAATGCAGGATCTTGTCTTCAAA
AAGCTACAAGGCAGACCATCATGACTACGGAGACACTGAAGAAAATTCACATTGATAGGCAGTTTTTTCAGCGAT
TTGCAGATACCATTAAAGGAGTTGCAAGATTTCGCCCACTTACAACAGTCTCCTGCAAGCTTTGAGCAAAGAG
AAAACAAAATGCATTTCTATGACATCATTGCCAGGGAGGAAAAAGGAAGAAAACAGATAATATCACTTCAA
AGCTAATTAATGTCAAAAAGGAATGGCAATTTGAAGTCCAGAGTCAGAATGAGTATATTGCTAACCTCAAG
CAACTGCAAGAGATGAAGGCAAAATCCAACCTTGGAGAATCGCTACATGAAAACCAATACCGAGCTGCAGATT
CCAGACCCAGAAAAAGTGTAACAGAACAGAGGAACTCTTGGTGGAAAGATTTTGAGAACTCAGGATGAAAACC
GAAGAAGAGGCCCGGACTCATAACAGAGATTGAAATGTTTCCTTAGAAAAGGAGCAGCAGAACTTGAGGAGAGGCTG
GAGTTCTGGATGGAGAAATACGATAAGGACACAGAAATGAAACAGAATGAACTAAATGCTCTCAAAGCCACAAAG
GCCAGTGTCTTAGCACACCTTCAAGACCTGGCAAAGATGATAAGAGAGTATGAACAGGTCATCATTGAAGATCGT
ATAGAAAAGGAGAGGAGCAAGAAGAAGGTAAAACAGGATCTCTTGGAAATTAAGAGCGTTATAAGCTCCAGGCC
TGGTGGCGAGGCACTATGATACGGAGAGAAATTGGTGGTTTCAAGATGCCTAAAGACAAAGTTGATAGCAAGGAT
TCAAAAGGCAAAGGTAAAGGCAAGGATAAGAGGAGAGGCAAGAAGAAGTGACCAAGTTCTCTTTTGTGTTTTCTG
CTGGTATTCTGGAGGTGGGAAGGACTTGGAGAGAGTTAAGAAACACCTGGTACCTCAAAGATGACTCATCTACAG
GTTGTTTTCTATTGAGACTTTCCAGGGAAGCCTGATTTCACTTTGCCTGTTAATTTCACTCTGCCTGTTAGGTG
GGTTTTCAAACCTGATTTAGGATTACACCATTGACTTAGGGCTTCCTCATACTTGCTGGGAAGAAGTTTCTAG
TAGTCTGTGAAGATTCATTCTTCTTGCTCTTCTCAGCAGAACAAAGAGTTCAGTGGCTTAGCTACAGTGACG
CATTGAACTTGAGTAATTCCTGTAATGTCAGATTTTGATTTTACCCAATTTGTCTGTAGTGAAAAACTCTTAT
GAGCAAAAGTATTCAGTAGGAATTACAATATGATGTTATTAGCTGTCCAGCATAATATATACACAGCAAAGTTTT
AATAAATGTTGGTTCTGCCTGCCTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1334

MEEDSLEDNLFPKVHSEMTVSATGEPPSAVEEEGIPNETDIEIMPEIPETLEPLSLPDVLRISAVLEDTTDQL
FILNYIMPVQYDGRQSICVKSRELNLEGTNLDKGLAMGLNMTKILSPLLVEGPNLPDFTPRGRFAVEFNKMQLV
FKKPTRQTIMTTETLKKIHIDRQFFSDVIADTIKELQDSATYNLLQALSKERENKMHFYDIIAREEKGRKQIIS
LQKQLINVKKEWQFEVQSONEYIANLKDQLQEMKAKSNLENRYMKTNTELQIAQTQKKCNRTTELLVEDFEKLRM
KTEEEARTHTEIEMFLRKEQQKLEERLEFWMEKYDKDTEMKQNELNALKATKASVLAHLQDLAKMIREYEQVIE
DRIEKERSKKKVKQDLLELKSIVIKLQAWWRGTMIRREIGGFKMPKDKVDSKDSKGKGKDKRRGKKK

GTCTATGTTCTTCGCGCCCTGGTGTGGACACTGCCAGCGGCTGCAGCCGACTTGGAAATGACCTGGGAGACAAATAC
AACAGCATGGAAGATGCCAAAGTCTATGTGGCTAAAGTGGACTGCACGGCCACTCCGACGTGTGCTCCGCCAG
GGGTGCGAGGATACCCACCTTAAAGCTTTTCAAGCCAGGCCAAGAAGCTGTGAAGTACCAGGGTCTCTCGGGAC
TTCCAGACACTGGAAAACCTGGATGCTGCAGACACTGAACGAGGAGCCAGTGACACCAGAGCCGGAAGTGGAAACCG
CCCAGTGCCCCGAGCTCAAGCAAGGGCTGTATGAGCTCTCAGCAAGCAACTTTGAGCTGCACGTTGCACAAGGC
GACCACTTTATCAAGTTCTTCGCTCCGTGGTGTGGTCACTGCAAAGCCCTGGCTCCAACCTGGGAGCAGCTGGCT
CTGGGCCTTGAACATTCCGAAACTGTCAAGATTGGCAAGGTTGATTGTACACAGCACTATGAACTCTGCTCCGGA
AACCAGGTTTCGTGGCTATCCCACTCTTCTCTGGTTCGAGATGGGAAAAAGGTGGATCAGTACAAGGGAAAGCGG
GATTTGGAGTCACTGAGGGAGTACGTGGAGTCGCAGCTGCAGCGCACAGAGACTGGAGCGACGGAGACCGTCAAG
CCCTCAGAGGCCCCGGTGTCTGGCAGCTGAGCCCCGAGGCTGACAAGGGCACTGTGTTGGCACTCACTGAAAATAAC
TTCGATGACACCATTGCAGAAGGAATAACCTTCATCAAGTTTTATGCTCCATGGTGTGGTCATTGTAAGACTCTG
GCTCCTACTTGGGAGGAACTCTCTAAAAAGGAATTCCCTGGTCTGGCGGGGTCAAGATCGCCGAAGTAGACTGC
ACTGCTGAACGGAATATCTGCAGCAAGTATTCGGTACGAGGCTACCCACGTTATTGCTTTTCCGAGGAGGGAAAG
AAAGTCAGTGAGCACAGTGGAGGCAGAGACCTTGACTCGTTACACCGCTTTGTCTGAGCCAAGCGAAAGACGAA
CTTTTAGGAACACAGTTGGAGGTACCTCTCTCGCCAGCTCCCGCACCTTGCCTTTAGGAGTTTCACTCCACAGA
GGCCACTGGGTTCCCACTGGTGGCTGTTTCAAGCAAGCAGAACATACTAAGCGTGAGGTATCTTCTTTGTGTGTGTG
TTTTCCAAGCCAACACACTCTACAGATTCTTTATTAAATGTGTAACCTCATGGTCACTGTGTAAACATTTTTCAGTG
GCGATATATCCCTTTGACCTTCTCTTGATGAAATTTACATGGTTTCCTTTGAGACTAAAATAGCGTTGAGGGAA
ATGAAATTGCTGGACTATTTGTGGCTCCTGAGTTGAGTGATTTTGGTGAAAGAAAGCACATCCAAAGCATAGTTT
ACCTGCCACAGAGTTCTGGAAGGTGGCTTGTGGCAGTATTGACGTTCTCTGATCTTAAGGTTCACAGTTGACT
CAATACTGTGTTGGTCCGTAGCATGGAGCAGATTGAAATGCAAAACCCACACCTCTGGAAGATACCTTCACGGC
CGCTGCTGGAGCTTCTGTTGCTGTGAATACTTCTCTCAGTGTGAGAGGTTAGCCGTGATGAAAGCAGCGTTACTT
CTGACCGTGCTGAGTAAGAGAATGCTGATGCCATAACTTTATGTGTGCATACTTGTCAAATCAGTTACTGTTCA
GGGGATCCTTCTGTTTCTCACGGGGTGAAACATGTCTTTAGTTTCTCATGTTAACACGAAGCCAGAGCCCACATG
AACTGTTGGATGTCTTCTTGAAGAGGGTAGGCATGGAAAATTCCACGAGGCTCATTCTCAGTATCTCATTAAC
CATTGAAAGATTCCAGTTGTATTTGTACCTGGGGTGACAAGACCAGACAGGCTTTCCAGGCCTGGGTATCCAG
GGAGGCTCTGCAGCCCTGCTGAAGGGCCCTAACTAGAGTTCTAGAGTTTCTGATTCTGTTTCTCAGTAGTCTTT
TAGAGGCTTGCTATACTTGGTCTGCTTCAAGGAGGTCGACCTTCTAATGTATGAAGAATGGGATGCATTTGATCT
CAAGACCAAAGACAGATGTCAGTGGGCTGCTCTGGCCCTGGTGTGCACGGCTGTGGCAGCTGTTGATGCCAGTGT
CCTCTAACTCATGCTGTCTTGTGATTAAACACCTCTATCTCCCTTGGGAATAAGCACATACAGGCTTAAGCTCT
AAGATAGATAGGTGTTTGTCTTTTACCATCGAGCTACTTCCCATATAAACCCTTTGCATCCAACACTCTTCAC
CCACCTCCCATACGCAAGGGGATGTGGATACTTGGCCCAAAGTAACTGGTGGTAGGAATCTTAGAAACAAGACCA
CTTATACTGTCTGTCTGAGGCAGAAGATAACAGCAGCATCTCGACCAGCCTCTGCCTTAAAGGAAATCTTTATTA
ATCACGTATGGTTACAGATAATTCTTTTTTTTAAAAAAACCCAACTCCTAGAGAAGCACAACTGTCAAGAGTCT
TGTACACACAACCTTCAGCTTTGCATCACGAGTCTTGTATTCCAAGAAAATCAAAGTGGTACAATTTGTTTGTTTA
CACTATGATACTTTCTAAATAAACTCTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAC

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FIGURE 1336

MEDAKVYVAKVDCTAHSVCSAQGVRGYPTLKLFPKGQEA VKYQGPRDFQTLENWMLQTLNEEPVTPEPEVEPPS
APELKQGLYELSASN FELHVAQGDHFIKFFAPWCGHCKALAPTWEQLALGLEHSETVKIGKVDCTQHYELCSGNQ
VRGYPTLLWFRD GKKVDQYKGKRDLESLREYVESQLQRTETGATETVTPSEAPVLAAEPEADKGTVLALTENNFD
DTIAEGITFIK FYAPWCGHCKTLAPTWEELSKKEFPGLAGVKIAEVDCTAERNICSKYSVRGYPTLLLFRGGKKV
SEHSGGRDLD SLHRFVLSQAKDEL

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FIGURE 1337

GTCAAGATGCGCGGGAGCAGCTACCCAGGCTTCCCTGGAGTCGGCCCCACGGATCATGCGGCTGGTGGCCGAATGC
AGCCGCTCCAGGGCCCCGGGCAGGCGAGCTGTGGCTGCCGCATGGGACAGTGGCCACTCCTGTGTTCATGCCAGTG
GGCACGCAGGCCACCATGAAGGGCATCACGACCGAACAGCTGGACGCTCTGGGTTGCCGCATCTGCCTGGGCAAT
ACCTACCATCTGGGTCTAAGGCCGGGACCCGAGCTGATCCAGAAAGCCAACGGTCTCCACGGCTTCATGAATTGG
CCTCATAATCTGCTAACGGACAGCGGCGGTTTTCCAGATGGTGTCTGCTGGTGTCTCTGTCCGAGGTGACGGAGGAG
GGCGTCCGCTTCCGCTCCCCCTACGACGGCAATGAGACCCTGCTGAGCCCGGAGAAATCCGTGCAGATCCAGAAT
GCGCTGGGCTCGGACATCATATGCAGCTGGACGACGTGGTTAGCAGTACTGTGACTGGGCCACGTGTGGAGGAG
GCCATGTACAGGTCAATCCGCTGGCTGGACCGGTGCATTGCAGCCCATCAGCGGCCGGACAAGCAGAACCTCTTC
GCCATTATCCAGGGTGGGCTGGACGCAGATCTCCGGGCCACCTGCCTTGAAGAGATGACCAAGCGAGACGTGCCT
GGCTTCGCCATCGGGGGCCTGAGCGGGGGTGAGAGCAAGTCGCAGTTCTGGCGGATGGTGGCGCTGAGCACCTCT
CGGCTGCCGAAGGACAAGCCCCGATATCTGATGGGGGTGGCTATGCCACTGATCTGGTAGTCTGCGTGGCTCTT
GGATGTGACATGTTTCTGACTGCGTCTTCCCCACACGGACAGCGCGCTTTGGCTCTGCCCTGGTGCCCACTGGGAAC
CTGCAGTTGAGGAAGAAGGTGTTTGAGAAGGACTTCGGCCCCATAGACCCGGAGTGCACCTGCCCCACGTGCCAA
AAGCACAGCCGCGCCTTCCTGCACGCACTGCTGCACAGTGACAACACGGCCGCGCTGCACCACTCACGGTCCAC
AACATCGCCTACCAGCTGCAGCTCATGAGCGCCGTCCGCACCAGCATCGTGGAGAAGCGCTTCCCGGACTTCGTG
CGGGACTTCATGGGCGCCATGTACGGGGATCCCACCCTCTGTCCCACCTGGGCCACTGACGCTCTGGCCTCTGTG
GGAATCACACTTGGCTGACCTGGCATTGGGAGAGGGAGGGAGGAAGGAAGGGAGGGAGGGGCTGGAAGATACTGA
AGGATTCCTTTTTGAAAGGTTTTTTTTTATTGTAACCT

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FIGURE 1338

MAGAATQASLESAPRIMRLVAECSSRRARAGELWLPHGTVATPVFMPVGTQATMKGITTEQLDALGCRICLGNTY
HLGLRPGPELIQKANGLHGFMNWPNNLLTDSGGFQMVSLVSLSEVTEEGVRFRSPYDGNETLLSPEKSVQIQNAL
GSDIIMQLDDVVSSTVTGPRVEEAMYSIRWLDRCIAAHQRPDKQNLFAIIQGGLDADLRATCLEEMTKRDVPGF
AIGGLSGGESKSQFWRMVALSTSRLPKDKPRYLMGVGYATDLVVCVALGCDMFDCVFPTRTARFGSALVPTGNLQ
LRKKVFEKDFGPIDPECTCPTCQKHSRAFLHALLHSDNTAALHHLTVHNIAYQLQLMSAVRTSIVEKRFPDFVRD
FMGAMYGDPTLCPTWATDALASVGITLG

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FIGURE 1339

ATGCCCTGCGCAAGGAAGTCTCAAGTCCATCTGGTACGCCTTTACCGCGCTGGACGTGGAGAAGAGTGGCAAA
GCTCCAAGTCCCAGCTCAAGGTGCTGTCCACAACCTGTACACGGTCCTGCACATCCCCCATGACCCCGTGGCC
CTGGAGGAACACTTCCGAGATGATGATGACGGCCCTGTGTCCAGCCAGGGATACATGCCCTACCTCAACAAGTAC
ATCCTGGACAAGGTGGAGGAGGGGGCTTTTGTAAAGAGCACTTTGATGAGCTGTGCTGGACGCTGACGGCCAAG
A ACTATCGGGCAGATAGCAACGGGAACAGTATGCTCTCCAATCAGGATGCCTTCCGCCCTCTGGTGCCTCTTC
CCTGTCTGAGGACAAGTACCCTCTGATCATGGTTTCTGATGAGGTGGAATACCTGCTGAAAAAGGTACTC
ACCATGAGCTTGGAGGTGAGCTTGGGTGAGCTGGAGGAGCTTCTGGCCCAGGAGGCCAGGTGGCCAGACC
ACGGGGGGGCTCAGCGTCTGGCAGTTCTGGAGCTCTTCAATTGGGGCCGCTGCCTGCGGGGCGTGGGCCGGGAC
CTCAGCATGGCCATCCACGAGGTCTACCAGGAGCTCATCCAAGATGTCCTGAAGCAGGGCTACCTGTGGAAG
GCGCACCTGAGAAGGAAGTGGGCCGAACGCTGGTTCCAGCTGCAGCCCAGCTGCCTCTGCTACTTTGGGAGT
AGTGTCAAAGAGAAAAGGGGCATTATCCCGCTGGATGCACACTGCTGCGTGGAGGTGCTGCCAGACCGCGAC
AAGCGCTGCATGTTCTGTGTGAAGACAGCCAACCGCACGTATGAGATGAGCGCCTCAGACACGCGCCAGCGC
AGTGGACAGCTGCCATCCAGATGGCGATCCGGCTGCAGGCCGAGGGGAAGACGTCCCTACACAAGGACCTG
AAGAGAAACGGCGGAGCAGCGGGAGCAGCGGGAGCGGCCGGGGCGGCCAAGGAAGAGGAGCTGCTGCGGCTG
CAGCAGCTGCAGGAGGAGAAGGAGCGGAAGCTGCAGGAGCTGGAGCTGCTGCAGGAGGCGCAGCGGCAGGCCGAG
CGGCTGCTGCAGGAGGAGGAGGAACGGCGCCGAGCCAGCAGCCGCGAGCTGCAGCAGGCGCTCGAGGGCCAAGT
CGCGAGGCGGAGCAGGCCCCGGGCCTCCATGCAGGCTGAGATGGAGCTGAAGGAGGAGGAGGCTGCCCCGCGAGCGG
CAGCGCATCAAGGAGCTGGAGGAGATGCAGCAGCGGTTGAGAGGAGGAGGAGGAGGCTGCCCCGCGAGCGG
GATGAAGAATCTGTGCGAATCGCTCAGACCAGACTGCTGGAAGAGGAGGAAGAGAAGCTGAAGCAGTTGATGCAG
CTGAAGGAGGAGCAGGAGCGCTACATCGAACGGGCGCAGCAGGAGAAGGAAGAGCTGCAGCAGGAGATGGCACAG
CAGAGCCGCTCCCTGCAGCAGGCCAGCAGCAGCTGGAGGAGGTGCGGCAGAACCAGGAGGCTGACGAGGAT
GTGGAGGCTGCCCAGAGAAAAGTGCGCCAGGCCAGCAGCAACGTGAAACACTGGAATGTCCAGATGAACCGGCTG
ATGCATCCAATTGAGCCTGGAGATAAGCGTCCGGTCACCAGCAGCTCCTTCTCAGGCTTCCAGCCCCCTCTGCTT
GCCCCCGTGACTCCTCCCTAAAGCGCCTGACCCGCTGGGGATCCCAGGGCAACAGGACCCCCCTGCCCCAACAGC
AATGAGCAGCAGAAAGTCCCTCAATGGTGGGGATGAGGCTCCTGCCCCGGCTTCCACCCCTCAGGAAGATAAACTG
GATCCAGCACCAGAAAATTAGTA

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FIGURE 1340

MALRKELLKSIWYAFTALDVEKSGKVSQSLKVLSHNLYTVLHIPHDPVALEEHFRDDDDGPVSSQGYMPYLNKY
ILDKVEEGAFVKEHFDELCWTLTAKKNYRADSNNGNSMLSNQDAFRLWCLEFNFLSEDKYPLIMVPDEVEYLLKKVL
SSMSLEVSLGELEELLAQEAQVAQTTGGLSVWQFLELFNSGRCLRGVGRDITLSMAIHEVYQELIQDVLKQGYLWK
RGHLRRNWAERWFQLQPSCLCYFGSEECCKEKGIIPLDAHCCVEVLPDRDGGKRCMFCVKTANRTYEMSASDTRQR
QEWTAAIQMAIRLQAEKTSLSKDLKQKRREQREQRRRAAKEEELLRLQQLQEEKERKLQELELLQEAQRQAE
RLLQEEEEERRRSQHRELQQALEGQLREAEQARASMQAEMELKEEEAARQRQRIKELEEMQQRLEALQLEVKARR
DEESVRIAQTRLLEEEEEKLQQLMQLKEEQERYIERAQQKEELQQEMAQQSRSLOQAQQQLEEVQRNRQRADED
VEAAQRKLQASTNVKHNVMNRLMHP IEPGDKRPVTSSSFSGFPPLAHRDSSLKRLTRWGSQGNRTPSPNS
NEQQKSLNGGDEAPAPASTPQEDKLDPAPE

[illegible]

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FIGURE 1342

MACLGFORHKAQLNLATRTWPCITLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLR
QADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYLIGIGNGTQIY
VIDPEPCPDSDFLLWILAAVSSGLFFYSFLLTAVSLKMLKKRSPLTTGVYVKMPPTEPECEKQFQPYFIPIN

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FIGURE 1343

ATGGCGGCCTCAGCAGCGCGAGGTGCTGCGGCGCTGCGTAGAAGTATCAATCAGCCGGTTGCTTTTGTGAGAAGA
ATTCTTGGACTGCGGCGTCGAGTCAGCTGAAAGAACACTTTGCACAGTTCGGCCATGTCAGAAGGTGCATTTTA
CCTTTTGACAAGGAGACTGGCTTTCACAGAGGTTTGGGTTGGGTTTCAGTTTTCTTCAGAAGAAGGACTTCGGAAT
GCACTACAACAGGAAAATCATATTATAGATGGAGTAAAGGTCCAGGTTCACACTAGAAGGCCAAAACCTCCGCAA
ACATCTGATGATGAAAAGAAAGATTTTTGA

1482/2682
FIGURE 1344

MAASAARGAAALRRSINQPVAFVRRIPWTAASSQLKEHFAQFGHVRCILPFDKETGFHRGLGWVQFSSEEGLRN
ALQQENHIIDGVKVQVHTRRPKLPQTSDDDEKKDF

1483/2682
FIGURE 1345

CCTGGGCCAGCATGGCGGCGCCCATGTAACCCGGTCCGTGCCGCAAAGCGAACGGCGGCCGCGGGCGGGCCCCG
CGGGGGTTAGAGGTCACCAATGCTGAGGGTCGCGTGAGGACGCTGAGTTTGATTTCGGACCCGGGCAGTTACCCAG
GTCCTAGTACCCGGGCTGCCGGGCGGTGGGAGCGCCAAGTTTCCTTTCAACCAGTGGGGCCTGCAGCCTCGAAGT
CTCCTCCTCCAGGCCGCGCGCGGATATGTCGTCCGAAACCAGCCCAGTCTAGGCTGGATGATGACCCACCTCCT
ACGCTGCTCAAAGACTACCAGAATGTCCCTGGAATTGAGAAGGTTGATGATGTCGTGAAAAGACTCTTGCT
AAATGGCCAACAAGAAGGAGATGCTAAAAATCAAGCAAGAACAGTTTATGAAGAAGATTGTTGCAAACCCA
GACACCAGATCCCTGGAGGCTCGAATTATTGCCTTGCTGTCAAGATCCGCAGTTATGAAGAACACTTGGAG
AAACATCGAAAGGACAAAGCCACAAACGCTATCTGCTAATGAGCATTGACCAGAGGAAAAAGATGCTCAAAAC
CGTAACACCAACTATGATGTCTTTGAGAAGATATGCTGGGGGCTGGGAATTGAGTACACCTTCCCCCTCTG
TACCGAAGAGCCACCGCCGATTTCGTGACCAAGAAGGCTCTGTGCATTTCGGGTTTTCCAGGAGACTCAAAG
AGAAGCGAAGAAGAGCCTTAAAGGCTGCAGCAGCAGCCCCAAAAACAAGCAAAGCGGAGGAACCCAGACAGC
GCCAAAGCCATACCAAAGACACTCAAAGACAGCCAATAAATTCTGTTCAATCATTAAAAAAA

1484/2682
FIGURE 1346

MLRVAWRTLSLIRTRAVTQVLVPGLPGGGS AKFPFNQWGLQPRSLLLQAARGYVVRKPAQSR LDDDDPPPSTLLKD
YQNVPGIEKVDDVVKRLLSLEMANKKEMLKIKQEQFMKKIVANPEDTRSLEARII ALSVKIRSYEEHLEKHKDK
AHKRYLLMSIDQRKKMLKNLRNTNYDVFEKICWGLGIEYTFPPLYRRARRRFVTKKALCIRVFQETQKLKKRRR
ALKAAAAAQKQAKRRNPDSPAKAIPKTLKDSQ

1485/2682
FIGURE 1347

ATGGCAGGCCTGATGACCATAGTAACCAGCCTTCTGTTCCCTGGTGTCTGTGCCCACCACATCATCCCTACGGGC
TCTGTGGTCATCCCTCTCCCTGCTGCATGTTCTTTGTTCCAAGAGAATTCCTGAGAACCGAGTGGTCAGCTAC
CAGCTGTCCAGCAGGAGCACATGCCTCAAGGCAGGAGTGATCTTCACCACCAAGAAGGGCCAGCAGTTCTGTGGC
GACCCCAAGCAGGAGTGGGTCCAGAGGTACATGAAGAACCTGGACGCCAAGCAGAAGAAGGCTTCCCTAGGGCC
AGGGCAGTGGCTGTCAAGGGCCCTGTCCAGAGATATCCTGGCAACCAAACCACCTGCTTAA

1486/2682
FIGURE 1348

MAGLMTIVTSLLFLGVCAHHIIP TGSVVIPSPCCMFFVSKRIPENRVVSYQLSSRSTCLKAGVIFTTKKGQQFCG
DPKQEWVQRYMKNLDAKQKKASPRARAVAVKGPVQRYPGNQTTTC

1487/2682
FIGURE 1349A

GGGGGCAGAAAAGGGGGCGGCGGACTCGGCTTGTGTGTGCTGCCTGAGTGCCGGAGACGGTCCTGCTGCTGCC
GCAGTCCTGCCAGCTGTCCGACGATGTCTGCCACCTAGTCGAGCCGCCGCCGCCCTGCACAACAATAACAACA
ACTGCGAGGAAAATGAGCAGTCTCTGCCCCGCCGCCGCCCTCAACAGTTCCTGGGTGGAGCTACCCATGAACA
GCAGCAATGGCAATGATAATGGCAATGGGAAAAATGGGGGGCTGGAACACGTACCATCCTCATCCTCCATCCACA
ATGGAGACATGGAGAAGATTCTTTTGGATGCACAACATGAATCAGGACAGAGTAGTTCCAGAGGCAGTTCTCACT
GTGACAGCCCTTCGCCACAAGAAGATGGGCAGATCATGTTTGATGTGGAAATGCACACCAGCAGGGACCATAGCT
CTCAGTCAGAAGAAGAAGTTGTAGAAGGAGAGAAGGAAGTCGAGGCTTTGAAGAAAAGTGCAGGACTGGGTATCAG
ACTGGTCCAGTAGACCCGAAAACATTCCACCCAAGGAGTTCCACTTCAGACACCCTAAACGTTCTGTGTCTTTAA
GCATGAGGAAAAGTGGAGCCATGAAGAAAGGGGGTATTTTCTCCGCAGAATTTCTGAAGGTGTTTATTCCATCTC
TCTTCTTTTCTCATGTTTTGGCTTTGGGGCTAGGCATCTATATTGGAAAGCGACTGAGCACACCCTCTGCCAGCA
CCTACTGAGGAAAAGGAAAAGCCCCCTGGAAATGCGTGTGACCTGTGAAGTGGTGTATTGTACAGTAGCTTATTT
GAACCTTGAGACCATTGTAAGCATGACCCAACCTACCACCCTGTTTTTACATATCCAATTCCAGTAACCTCTCAAA
TCAATATTTTATTCAAACCTCTGTTGAGGCATTTTACTAACCTTATACCCTTTTTGGCCTGAAGACATTTTAGAAT
TTCCTAACAGAGTTTACTGTTGTTTAGAAATTTGCAAGGGCTTCTTTCCGCAAATGCCACCAGCAGATTATAAT
TTTGTCTAGCAATGCTATTATCTCTAATTAGTGCCACCAGACTAGACCTGTATCATTTCATGGTATAAATTTTACTC
TTGCAACATAACTACCATCTCTCTCTTAAACGAGATCAGGTTAGCAAATGATGTAAAAGAAGCTTTATTGTCTA
GTTGTTTTTTTTTCCCCAAGACAAAGGCAAGTTTCCCTAAGTTTGAGTTGATAGTTATTAAAAAGAAAACAAAAC
AAAAAAAAAAGGCAAGGCACAACAAAAAATATCCTGGGCAATAAAAAAATATTTTAAACCAGCTTTGGAGCCA
CTTTTTTGTCTAAGCCTCCTAATAGCGTCTTTTAAATTTATAGGAGGCAAACCTGTATAAATGATAGGTATGAAATA
GAATAAGAAGTAAATACATCAGCAGATTTTCATACTAGTATGTTGTAATGCTGTCTTTTCTATGGTGTAGAATC
TTTCTTTTCTGATAAGGAACGTCTCAGGCTTAGAAATATATGAAATTGCTTTTTTGAGATTTTGGCGTGTGTGTTG
ATATTTTTTTACGATAATTAGCTGCATGTGAATTTTTCATGACCTTCTTTACATTTTTTATTTTTTATTCTTTAT
TTTTTTTTTCTCTAAGAAGAGGCTTTGGAATGAGTTCCAATTTGTGATGTTAATACAGGCTTCTGTGTTTAGGAAG
CATCACCTATACTCTGAAGCCTTTAAACTCTGAAGAGAATTGTTTCAGAGTTATTCCAAGCACTTGTCGAACCTTG
GAAAAACAGACTTTGGGTTGTGGGAACAGTTGACAGCGTTCTGAAAAGATGCCATTTGTTTCCTTCTGATCTCTCA
CTGAATAATGTTTACTGTACAGTCTTCCCAAGGTGATTCTGCGACTGCAGGCACTGGTCATTTTCTCATGTAGC
TGTCTTTTTCAGTTATGGTAAACTCTTAAAGTTTCAGAACTCAACAGATTCTTTCAGTGATATACTTGTTTCGTTT
ATTTCTAAAATGTGAAGCTTTAGGACCAAATTTGTTAGAAAGCATCAGGATGACCAGTTATCTCGAGTAGATTTTC
TTGGATTTTCAGAACATCTAGCATGACTCTGAAGGATACCATGTTTTATATATAAATAATTACTGTTTATGATA
TAGACATTGATATTGACTATTTAGAGAACCCTTGTTAATTTTTAAACTAGCAATCTATAAAGTGCACCAGGTCAA
CTTGAATAAAAAACACTATGACAGACAGGTTTGCCAGTTTGAGAACTAACTCTTTTCTCACATCAACATTTGTA
AAATTGATGTGTTATAGTGGAAAATAACATATAGATTAAACAAAATTTTTATCTTTTTTCAAGAATATAGCTGGC
TATCTTTAAGAAAGATGATATATCCTAGTTTTGAAAGTAATTTTCTTTTTTCTTTCTAGCATTGATGCTAAAT
AATTTTGACATCTTTTCTTAGACCATGTTTCTGTCTTACTCTTAAACCTGGTAACACTTGATTGCTTCTAT
AACCTATTTATTCAAGTGTTTCATATTTGAATTTCTTTGGGAAGAAAGTAAATCTGATGGCTCACTGATTTTTGA
AAAGCCTGAATAAAATTGAAAGACTGGAAAGTTAGGAGAACTGACTAGCTAAACTGCTACAGTATGCAATTTCT
ATTACAATTGGTATTACAGGGGGGAAAAGTAAATTACACTTTACCTGAAAGTGACTTCTTACAGCTAGTGCATT
GTGCTCTTTCCAAGTTCAGCAGCAGTTCTATCAGTGGTGCCACTGAAACTGGGTATATTTATGATTTCTTTTCAGC
GTTAAAAAGAAACATAGTGTGCCCCTTTTTCTTAAAGCATCAGTGAAATTATGGAAAATTACTTAAACGTTGAAT
ACATCATCACAGTAGAATTTATTATGAGAGCATGTAGTATGTATCTGTAGCCCTAACACATGGGATGAACGTTTT
ACTGCTACACCCAGATTTGTGTTGAACGAAAACATTGTGGTTTGAAAGGAGAATTCAACAATTAATAGTTGAAA
TTGTGAGGTTAATGTTTAAAAAGCTTTACACCTGTTTACAATTTGGGGACAAAAGGCAGGCTTCATTTTTTCATA
TGTTTGATGAAAACCTGGCTCAAGATGTTTGTAATAGAATCAAGAGCAAACTGCACAACTTGACATTGGAAA
GTGCAACAAGTTCCCGTGATTGCAGTAAAAATATTTACTATTCTAAAAAATGAGAATTGAAGACTTAGCCAGTC
AGATAAGTTTTTTTATGAACCCGTTGTGGAAATTATTGGAATTAACCTGAGCCAAAGTGATTATGCATTCTTCATC
TATTTTAGTTAGCACTTTGTATCGTTATATACAGTTTACAATACATGTATAACTTGTAGCTATAAACATTTTGTG
CCATTAAAGCTCTCACAAAACTTTTCTGTGCTAGTATATCATTTTTCTGTGCGACCTGTTGCCTGGGAGTTTCAGG
CGATGAGGCCTCCTCGCTACACACAGCCTTCCAGTCATCTGGCTTCCCAGCAGTGGAGTTTCTAACAGTGCTC

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FIGURE 1349B

AGGGTGTGAACGGTGTCTGTGGGGACAGTCACCGCAGTGTGAGCATTTCGTGAGTGCCTCGGGACTGTGGCATT
AGAGCATTTCCTCCAGGTAGTGGCAGGAGGGCGCTCACGGGAGGAGTGCTCAGGAAGTACAGGAGAGAAGAAGA
GTGTGCCCTGATGGAAATGACAGTGGGACACCAGTGAAAGTGGATCCAGAAGGAAGTGGAAAGTTCACGTGCCTG
GAAAACAGGATGGATACAGAGGAAACTGAAAAATGTAGGTTAGTACTGAACCTAATTGAAATGTGTGTGCCCTCC
CAGGGGTCACACTTCATCATATAGTTAGCTGGGTTTACTTCTTTTAAACCAGGAGGTGATTTAAGATGTAAATTT
TAGACAGTCAAGCCATCTGGTGAGAGAGTACCAGAGGAGATCAATCAGTTCTCTAGGCGAGGAGCTAGGGCCTGT
CCTGGGCTGTCACCTGAGGTTGGCAGTGGTGGGCCAGGATACGTATGAGAAACAAAGCGGAAGTAACTGGTCA
GAAAGTGAAGTAGAGACGAAGGCGTGTGTATTCTTTGTGTGTGTGGCCCGTAAACATGGGTTGATCCCATTAG
TTAAAGGAGGACAGGAGAAGAAATGGGGTGGTAGGAGCAAAGAGGGAGGATTTTCAGTTTTGAGTGCCTTGAACAT
GAAATGTCTGAGGGCCTTCTGATTGGACACTTACTCC

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FIGURE 1350

GQKRGRRLVLLPECRRRSCCRSPASCPTMSSHLVEPPFPLHNNNNNCEENEQSLPPPAGLNSSWVELPMNS
SNGNDNGNGKNGGLEHVPSSSSIHNCDMEKILLDAQHESGQSSSRGSSHCDSPSPQEDGQIMFDVEMHTSRDHSS
QSEEEVVEGEKEVEALKKSADWVSDWSSRPENIPPKEFHFRHPKRSVLSMRKSGAMKKGGIFSAEFLKVFIPSL
FLSHVLALGLGIYIGKRLSTPSASTY

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FIGURE 1351

GCGGCGGACTCGGCTTGTTGTGTTGCTGCCTGAGTGCCGGAGACGGTCCTGCTGCTGCCGAGTCCTGCCAGCTG
TCCGACGATGTCGTCCCACCTAGTCGAGCCGCCGCCGCCCTGCACAACAACAACAACACTGCGAGGAAAAATGA
GCAGTCTCTGCCCCGCCGCCGCCCTCAACAGTTCCTGGGTGGAGCTACCCATGAACAGCAGCAATGGCAATGA
TAATGGCAATGGGAAAAATGGGGGGCTGGAACACGTACCATCCTCATCCTCCATCCACAATGGAGACATGGAGAA
GATTCTTTTGGATGCACAACATGAATCAGGACAGAGTAGTTCCAGAGGCAGTTCTCACTGTGACAGCCCTTCGCC
ACAAGAAGATGGGCAGATCATGTTTGATGTGGAAATGCACACCAGCAGGGACCATAGCTCTCAGTCAGAAGAAGA
AGTTGTAGAAGGAGAGAAGGAAGTCGAGGCTTTGAAGAAAAGTGCAGGACTGGGTATCAGACTGGTCCAGTAGACC
CGAAAACATTCCACCCAAGGAGTTCCTCAGACACCCTAAACGTTCTGTGTCTTTAAGCATGAGGAAAAGTGG
AGCCATGAAGAAAGGGGGTATTTTCTCCGCAGAATTTCTGAAGGTGTTTATTCCATCTCTCTTCTTCTCATGT
TTTGGCTTTGGGGCTAGGCATCTATATTGGAAAGCGACTGAGCACACCCTCTGCCAGCACCTACTGAGGGGAAAGG
AAAAGCCCCCTGGAATGCGTGTGACCTGTGAAGTGGTGTATTGTACAGTAGCTTATTTGAACTTGAGACCATTG
TAAGCATGACCCAACCTACCACCCCTGTTTTTACATATCCAATTCCAGTAACCCTCAAATTCAATATTTTATTCAA
ACTCTGTTGAGGCATTTTACTAACCTTATACCCTTTTTGGCCTGAAGACATTTTAGAATTTCTTAACAGAGTTTA
CTGTTGTTTAGAAATTTGCAAGGGCTTCTTTTCCGCAAATGCCACCAGCAGATTATAATTTGTCCGGCAATGCTA
TTATCTCTAATTAGTGCCACCAGACTAGACCTGTATCATTATGGTATAAATTTTACTCTTCCAACATAACTACC
ATCTCTCTCTTAAAACGAGATCAGGTTAGCAAATGATGTAAAAGAAGCTTTATTGTCTAGTTGTTTTTTTTTCCC
CAAGACAAAGGCAAGTTTCCCTAAGTTTGAGTTGATAGTTATTAAAAAGAAAAACAAAAAAGGCAAG
GCACAACAAAAAATATCCTGGGCAATAAAAAAATATTTTAAACCAAAAAAAAAAAAAA

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FIGURE 1352

MSSHLVEPPPPLHNNNNNCEENEQSLPPPAGLNSSWVELPMNSSNGNDNGNGKNGGLEHVPSSSSIHNGDMEKIL
LDAQHESGQSSSRGSSHCDSPSPQEDGQIMFDVEMHTSRDHSSQSEEEVVEGEKEVEALKKSADWVSDWSSRPEN
IPPKEFHFRHPKRSVLSMRKSGAMKKGIFSAEFLKVFIPSLFLSHVLALGLGIYIGKRLSTPSASTY

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FIGURE 1353

GGGTGGAGTGTAGGCCAGGGGGTTGGCGGTGCCGTGTCATGGAGGCTCAGTCTCTGAGCAGCCATTGAAGGGGAA
GGAACGCGGGTGTGTGTGTGTATGTGTGTGTGTATGTGTGTGCGCGCGTGCCTGCGTGTGTGTGCGCGCGCTAG
TGTGTGGACAAGGAGGTGGGGGCAGCTGAGTTAGAGTCCCAACTCTTGGACTCCATTTGCTATTCTCTTCTTCT
CCCCACACCTATCTGGTGGTGGTAGTGGGCGTTTATATTTGCGTTCCTTTTCATTCAATTTCTAAATCTCTTAA
AATTTTGGGTGGGGGTATTGGGGAAGGCAGGAAAGGGAAAAGGAGAGTAGTAGCTGAAGAGCAAGAGGAGGACA
TGGAGATGAAGAAGAAGATTAACTGGAGTTAAGGAACAGATCCCCGGAGGAGGTGACAGAGTTAGTCCTTGATA
ATTGCCTGTGTGTCAATGGGGAATTGAAGGCCTGAATGATACTTTCAAAGAACTAGAATTTCTGAGTATGGCTA
ATGTGGAACATAAGTTCGCTGGCCCGCTTCCAGCTTAAATAAACTTCGAAAATTGGAGCTTAGTGATAATATAA
TTTCTGGAGGCTTGAAGTCTTGGCAGAGAAATGTCCAAATCTTACCTACCTCAATCTGAGTGGAAACAAAATAA
AAGATCTCAGTACAGTAGAAGCTCTGCAAAATCTTAAAAATTTGAAAAGTCTTGACCTGTTTAACTGTGAGATCA
CAAACCTGGAAGATTATAGAGAAAAGTATTTTTGAACTACTGCAGCAATCACATACTTAGATGGATTTGATCAGG
AGGATAATGAAGCGCCGGACTCTGAAGAGGAGGATGATGAGGATGGCGATGAAGATGATGAAGAGGAAGAGGAAA
ATGAAGCTGGTCCACCGGAAGGATATGAGGAAGAGGAGGAGGAAGAGGAAGAGGAGGATGAGGATGAGGATGAAG
ATGAAGATGAAGCAGGTTTCAAGTGGGAGAGGAGGAAGAGGAAGTGGGCTCTCATACTTAATGAAAAGAGAAA
TTCAGGATGAAGAAGATTATGATGACTATGTTGAAGAAGGGGAAGAAGAGGAAGAAGAGGAAGAAGGAGGTCTTC
GAGGGGAGAAGAGGAAACGAGATGCTGAAGACGATGGAGAGGAAGAAGATGACTAGATCATTCTAAGACCAGATT
CTCTAATGTTTCTGGGTGTGCAATAGAGTGATCACATCTTTGTTTCTTCATGTACGATAGCTATCCCTACAGAAG
ATAATGTGTAACCTTTTATAGGAAAAGTGTGGTTTTACTATTTTTGCTTATCATTCCAAATAAGAAGTGTCTG
TTAATGATCATATTGTATGTAGAGAAAAATTTTCACTGACTCCCATTTGTGGAATTCCCTAGCAATTTATTTAGAC
TTAATTTTTTAAATCAAGCTTACTGTATTAGTCATTTTTAGCCATAATTAACATGATCACTTTTACACAGG
TGATGATGGTGCATTTCTTCTTATTTATAAATTAAGTGAATTACAGTTTGCTATAATATAAAATGACAATA
GTCTCTTGAGTGGTAAGTTGGTTATTTTTTAGAGGTGATCCAGGAATCTTTAGTTTGAAGGCAGTTACNNNNN
NNNNNNNNNNNNNNNNNGACTAAGAGTGTGGTTGCTTTTTTGTGACAAAGTAAGTGGAAAAAGAGCAGAAT
AGTAAAGGTTCTATTCAGCAACATAGTTTCTGATTTTGTGGAGGTTCTATTCAGTAATATGGTTTCTGGAATTA
GTGGTGACTGATAAGATTTTATTTTTGAAGGAAAAATTGCTTATACTAAGTCCAGAGACATGCAGGTGAGCCCTT
TTGTGAGGCTGCAATCATGACATGCCGATGGTTGTTTATTTTGTGTTTTAGGTGTGCATTTCTTTTCTTCTTAGC
AATTCCTTTATGATCACCTTCCCTTCTGTTTCACTCCCTCCCGCTCTCTCAAAGGAACCTGGGAAACTTGTGA
AACCAGGAAAAACCTTTAGTCTTATACCTCAACTACCTTTCAGTCTGTCTGGGTTTTAAATAAGTGAAGTAGAA
GAAATTGAGTATTTTCTGACATAAGAATATATTATCAATACAGTTTTATGCGTAAGCTCTCCTTACCATAAATG
TTTCTTGGTTGACAACATCTAAGACAATATTAGTGGGATGAAGAAAGAAAAGCAGGGGTGCTTTTGGGAAGCAGTG
TTAGTGTTCCTCAAAGTCGGAACAATTGCCTGTTGATATATTAATAAGACATTAAAGTCAAATTTTAAATGTTGG
CCTCTCAAATGATTTGGATACCACTCTGCAAAGTATTTCTAACCTTTAATCCCAGTTTTTAAACAGATATAATA
ATAGCATTTAATTGGAATATACTAGGCAGCTGGAAAAGTATTTGAAACTAAATTGACATTAAATTAAGATTTGT
TTTCAAGTGGATGTCCATTAAAGTAGAAAAATATTTGGGATAAGTGAGTGTGTGTTTCTTACATGGCTACTAA
ATAAAATATAATGAGTATACAAGTATATCTCTCTTTTGCTATGGAGGCTCCATGTTCAAGGCAATGGCTTTTTA
AATCTTGGCTATCTAAATTTTTTCCCTTTGTTTTGAATATTTGTAAGTTTTTAAGAAGTTAGTGTGACGAAAT
AATTGAAGTTATGCTTCTATACTGGGACATATTTAAATACTGAGTATAGTACTGCTGCTACTGCTTCTACAATGT
AAAATGTATGACTTGGTGTTTTTAAAGTAAAAATTATGATGTTACTTGTGGAGAACTAAAAATGTTGTACAACCTG
ACCGAAAGAAAACCTTGGGGATAAGTTTAGTGAGGGGATTGGAATCCCCAAAAGATAACATTTTTCTTCTGCT
TTTAAAAACTGAAATCCCTGTTCTAGTTTCTTATCAATCATCTTACTGTGCAATCAAATTAGAGTACTTTGGTT
TGAAAACAACACTTAGAGCCTCCAGATAACTTTTAAAGCTTATTTAGCTTTGTGGGTGGTATTTTCTATGCAATA
AGTAAGGTGGGTTTTATATTTGTAGAAGTTTCGGTCTTATTTAATGCTCTTTGTATGGCAGTATGTATATA
TTGTGTTAAGTTCCTCAAGAATCTCCTTAAAAACTTTGAAGTTAATACTTTTGTGCAACTGTGTTTTGAATAAAG
CCATGACAGTGTAAAAACAACAAAAAAATTTGCAGTACTCCTGATTATCTTTTATTGTTTTTGAAGTGTCCC
TGTTTTTTTCTGTGACTGCTGTAACTTAAAGTTTTTGAAGTGAATTGCTTCAAATAAATTGAAGATTTGTTATA
ATGATTAAC

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FIGURE 1354

MEMKKKINLELRNRSPEEVTELVLDNCLCVNGEIEGLNDTFKELEFLSMANVELSSLARLP SLNKLRLKLELSdni
ISGGLEVLAEKCPNLTYLNLSGNKIKDLSTVEALQNLKNLKSldlFNCEITNLEDYRESIFELLQQITYLDGFDQ
EDNEAPDSEEDDEDGDEDDEEEENEAGPPEGYEEEEEEEEDEDEDEDEDEAGSELGEGEEVGLSYLMKEE
IQDEEDYDDYVEEGEEEEEEEGGLRGEKRKRDAEDDGEEEDD

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FIGURE 1355A

GCGGCCGCTGAATTCTAGGGCGGAGCGAAGAGAACCGGTGCGGGCAATCCTAGCGCGCAGCAGCAGCAGCAGCAG
CAGCACCCGCATCCGCTGCGGGAGTCCGAGCCGGAACACACCCAAGTAGCTGCCCTTTCTCTTCTGTCACTCTC
ACCGCCCCACCACAGACCGCGTTCCCCGAGGAAACCGGCCGCCACGCCCGGAGCATCCTCCCCTGTTGAGCGGG
CGCTGACGGACCCGGCGGCATGATGCGGCTGCGAGGCTCGGGGATGCTGCGGGACCTGCTCCTGCGGTGCCCCG
CGGCGTGAGCGXGACTCTGCGGCGGGCACAGCCCTTGGTCACCCTGTGCCGGCGTCCCCGAGGCGGGGGACGGCC
GGCCGCGGGCCCGGCTGCCGCCGCGGACTCCACCCGTGGTGGGGCGGGGGCGGCTGGCCGGCGGAGCCCCCTCGC
GCGGGGCTGTCCAGCTCTCCTTCGGAGATCTTGCGAGGAGCTGGGCAAGGGGAGCACGCATCCCCAGCCCGGGGT
GTCGCCACCCGCTGCCCCGGCGGCCCGGCCCAAGGACGGCCCCGGGAGACGGACGCGTTTGGCAACAGCGA
GGGCAAAGAGCTGGTGGCCTCAGGTGAAAACAAAATAAAACAGGGTCTGTTACCTAGCTTGGAAGATTGCTGTT
CTATACAATTGCTGAAGGACAAAGAGAAAATACCTGTTTATAAATTTATTACAGCACTCAAATCTACAGGATTGCG
AACGCTGATCCCAGGTTGAAAGAGTGTATGGATATGTTAAGATTAACTCTTCAAACAACATCAGATGGTGTCA
GCTAGACAAAGATCTTTTTTAAAAAATGTGTTTACAGAGCAACATTGTTTTGTTGACACAAGCATTTAGAAGAAAGTT
TGTGATTCTGACTTTATGCTTTTACCTCACACATTGATGAGTTATATGAAAGTGCTAAAAAGCAGTCTGGAGG
AAAGGTTGCAGATTATATTCTCAACTGGCCAAATTCAGTCCCGATTTGTGGGGTGTGTCTGTTTGTACAGCAGA
TGGACAGAGGCATTCTACTGGAGATACCAAAGTTCCCTTCTGTCTTCAGTCTGTGTAAAACCTTTGAAATATGC
CATTGCTGTTAATGATCTTGGAATGAATATGTGCATCGATATGTTGGAAGAGCCGAGTGGACTAAGATTCAA
CAAATATTTTTGAATGAAGATGATAAACACATAATCCTATGGTAAATGCTGGAGCAATTGTTGTGACTTCACT
AATAAAGCAAGGAGTAAATAATGCTGAAAAATTTGACTATGTCATGCAGTTTTTGAATAAGATGGCTGGTAATGA
ATATGTTGGATTGAGTAATGCAACGTTTCAGTCTGAAAGAGAAAGTGGAGATCGAAATTTGCAATAGGATATTA
CTTAAAGAAAAGAAGTGTTCAGAAAGGCACAGACATGGTTGGTATATTAGACTTCTACTCCAGCTGTGCTC
CATTGAAGTGACTTGTGAATCAGCCAGTGTGATGGCTGCGACACTGGCTAATGGTGGTTTCTGCCCAATTACTGG
TGAAAGAGTACTGAGCCCTGAAGCAGTTCGAAATACATTGAGTTTGATGCATTCCTGTGGCATGTATGACTTCTC
AGGGCAGTTTGCTTTCCATGTTGGTCTTCTTGCAAAATCTGGAGTTGCTGGGGGCATTCTTTAGTTGTCCCCAA
TGTTATGGGTATGATGTGCTGGTCTCCTCCTCTGGATAAGATGGGCAACAGTGTTAAGGGAATTCATTTTGTCA
CGATCTTGTTTCTCTGTGTAATTTCCATAACTATGATAATTTGAGACACTTGCAAAAAACTTGATCCTCGAAG
AGAAGGTGGTGATCAAAGGCATTCTTTGGACCATTGGACTATGAAAGTCTCCAACAAGAACTTGCTTTAAAGA
GACAGTATGGAAAAAGTGTCACCTGAGTCAAATGAGGACATCTCTACAACCTGTAGTATATAGAATGGAAAGTCT
GGGAGAGAAAAAGCTAAAGAAATGGGTTCTAGTTTCAGAAATGTTTCTTCATTTAATCTTTCAAACATCTTTAGCTT
TTTTTTGCAAGTTATAAATATTTATTTGAGGTATTTTTTGTCTCAATCTTGGGTGCTGGAGCCATAAAGCTTTT
TTTTCTTTTAACTTTTGATAAAGGCAGTAGATTAAGAAGTGCATTTGTTGGTCTTTAAAAAGTATTTACAAGT
ACATAAATTTGCTTTATTTTTTAAAAATACAAAAAGGAAAAATTTAAATTTTTTTTGATGTAATTTAAATGTTAAC
TATGTGGTCAGATAATCCCATTTTACAATAGTAACAGAAAAATTTGAATTCCTAGTTCTAAAATTCACAAATTTAA
CTCATAAGCTTTGTTGCATTTTGTTTTTCTTTTCCATTTTTTAAAACTAATGTGATGTCTTTAGTGGCAATAGAA
GGTACTTCTATGCTAAATACAAAATAAAAAGGCAAAATAATGAACCCCAATTATTTTATTTAAATAGCAGTG
GATTATAAATTAGCTTGTGTTTACATTTATGCCATTTTTTGGTGATAGATTGGCTTTACATTTTAAAAAATTTAT
TTAAAAATTTATCAAATGCTTTTAAATATGACTCCTACTTTTTTTATTTTGCAACTCCTCTGTTCTGTGAGAGTT
GTTATATACAGGAGTGTCTTATGTTACTAAAACATTCCAGCCAAAGAAATTCAGATGTGAGATAATGATGTTTCA
TCAATAAAAAGCTATAATGGTTAGTTACTCAGAAGGAGAAACAGTGAGTGTCTTCAAGTGAATTGTTTCACCTAAA
CAATTTTATTTTCATATTATCCACATAACTTTTTCTATGTTATATTTAAATATGAATGGCAAATTTTGGTTTTTA
GCTTTTACATTTTATTATCTTAATTTTATAAATGCTAATATTTCTTTTGTGATAAGTTATAGCATCTCATAAAGT
TTGTTCTATTTGAAGTTTTTTAGAGTACTTGAGAAATGAATTTAGTCTGCAGGTAGTAAGTATGCTACTAAAATA
CGTTAGATCTAAATCCTTTTATTTGGTATAAAAATGCAATATTGAGAATCAAACCTTGTTTTTAAAGAACTATA
GATTCTACACAACCTGATTTCAAGTAATTATTCATAGTATTTATAGTTGTCTTGGCAAAGTGATTGTAAATTTCT
GTAGGACCTATTACACTTCTTCTTCTTCCATATACTTCTCTGGTTTTTCCCCTAGTTCCCCTATAATTTCAAG
TTTGTGAAACCTGTTAATTTTGTGGGGGATTAGAAGAAAACTTGGTGGTTTCTTAGCATGATGGTGTATGTA
TGTGGTAATGGAAAGTCTGTAAAGTAAATATAGTGTAGXAAAAAAGATTTCACTGAGTATTTTAGATACTAGTG
XAAATAAAGATAGAAAATCTTGATCATAATGTCTTAAGTTGGGAACTGTGATATTAAGAAAAGAAATTCCTTC
TAGAGGTGCTGGCCAAAAGCCTTTTGGGCTAACTTAAGTATTAAATTTATATATTTAAATAATTATATTTAAG

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FIGURE 1355B

TIGTAGAGGATTTTCCCAAGGATTTTATGCTTACTTGAATGTTCTTTGAATGTTGAGATGCATATCCTAAXCTGG
ATGCTTCTCAAGGCCTTACTGCATATTTGTGTTGCATATTTATGTTAGTTGCACCAGGGCCATTTGTAGTTTGGG
CAACCGAATGCCTTAATTGGAAAAAGGCATTGTGGTTTCCCCTATTATCTAAATTGTTACATTTTACCATTTC
TTCCGAAGTTGGTTTTACTTTATTAAATGAAGATTTAGTTTTTCATATCGTATACXTAGCTGTATAGATTTCAAAA
TAGGTTGTTAATTTGTGTCACTTACTATTTTTGTGTTGGTAATGCTTTAAATGCATACTTAAAAATGAAGTACT
ATCTAAGCTACTGTGTTTAGAAAAATGTTAAGAATGAGCAGAAATTTTATAGAAAAGATAAACGGAAGAAGA
AAGATACTGCGAATAGGCCCTCAAACCTAAAAAAGAAAAAAGCTTTGCCAGTTTAAAGGACATATTTGATTCT
TCAGTATCTTAACACCTTTTTAAACAAAGTTCTTGATAGTACCCTATTATTGGGTTTGTGTTTATGCCATTAT
GATTCTTGATATTCAAGCATTACAAATGTAGCATATTTGATTTTCTTTTTCTTTCTTTTTTTGGCATGTTTTT
CATAAATGTTGCATTTTATCTTAGTGTGTTGGATGAAAAACATTTGTGTTGTTTAGCTTTCATTGCTTTGTATA
TAATAATGTACCTTTATTTTCCAGTATGCCTACATTTTGTATTGCACAATAAATTTATTTTAAGCTGAAAAA
AAAAAAAAAAAA

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FIGURE 1356

MMRLRGSGMLRDLLLRSPAGVSXTLRRRAQPLVTLCCRPRGGGRPAAGPAAAAARLHPWWGGGGWPAEPLARGLSSS
PSEILQELGKGSTHPQPGVSPPAAPAAPGPKDGPGETDAFGNSEGKELVASGENKIKQGLLP SLEDLLFYTIAEG
QEKIPVHKFITALKSTGLRTSDPRLKECMDMLRLTLQTTS DGVM LDKDLFKKCVQSNIVLLTQAFRRKFVIPDFM
SFTSHIDELYESAKKQSGGKVADYIPQLAKFSPDLWGVSVCTADGQRHSTGDTKVFFCLQSCVKPLKYAIAVNDL
GTEYVHRYVGKEPSGLRFNKLFLNEDDKPHNPMVNAGAI VVTS LIKQGVNNAEKFDYVMQFLNKMAGNEYVGFSN
ATFQSERESGDRNFAIGYYLKEKKCFPEGTDMVGILDFYFQLCSIEVTCEASVMAATLANGGFCPITGERVLSP
EAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKSGVAGGILLVVPNMGMCMCWSPPLDKMGNSVKGIHFCHDLVSLC
NFHNYDNLRHFAKKLDPREGGDQRHSFGPLDYESLQQLALKETVWKKVSPESNEDISTTVYRMESLGEKS

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FIGURE 1357

AAGATCTAAAAACGGACATCTCCACCGTGGGTGGCTCCTTTTTCTTTTTCTTTTTTCCCACCCCTTCAGGAAGTG
GACGTTTTCGTTATCTTCTGATCCTTGACCTTCTTTGGGGAAACGGGGCCCTTCTGCCCAGATCCCTCTCTTT
TCTCGGAAAACAACTACTAAGTCGGCATCCGGGGTAACTACAGTGGAGAGGGTTTCCGCGGAGACGCGCCGCCG
GACCCTCCTCTGCACTTTGGGGAGGCGTGCTCCCTCCAGAACCGGCGTTCTCCGCGCGCAAATCCCGGCGACGCG
GGGTGCGGGGGTGGCCGCCGGGGCAGCCTCGTCTAGCGCGCGCCGCGCAGACGCCCCCGAGTCGCCAGCTACCG
CAGCCCTCGCCGCCAGTGCCCTTCGGCCTCGGGGCGGGCGCCTGCGTCCGTCTCCGCGAAGCGGGAAAGCGCGG
CGGCCGCCGGGATTTCGGGCGCCGCGGCAGCTGCTCCGGCTGCCGGCCGGCGGCCCGCGCTCGCCCGCCCCGCTT
CCGCCCGCTGTCTGTGCTGCACGAACCTTCCAACCTCTCCTTTCTCCCCACCCCTTGAGTTACCCCTCTGTCTTT
CCTGCTGTTGCGCGGGTGCTCCACAGCGGAGCGGAGATTACAGAGCCGCGGGATGCCCCAACTCTCCGGAGGA
GGTGGCGGCGGGGGGGGGGACCCGGAACCTCTGCGCCACGGACGAGATGATCCCTTCAAGGACGAGGGCGATCCT
CAGAAGGAAAAGATCTTCGCCGAGATCAGTCATCCCGAAGAGGAAGGCGATTTAGCTGACATCAAGTCTTCCTTG
GTGAACGAGTCTGAAATCATCCCGGCCAGCAACGGACACGAGGTGGCCAGACAAGCACAAACCTCTCAGGAGCCC
TACCACGACAAGGCCAGAGAACACCCCGATGACGGAAGCATCCAGATGGAGGCCTCTACAACAAGGGACCCCTCC
TACTCGAGTTATTCCGGGTACATAATGATGCCAAATATGAATAACGACCCATACATGTCAAATGGATCTCTTTCT
CCACCCATCCCGAGAACATCAAAATAAAGTGCCCGTGGTGCAGCCATCCCATGCGGTCCATCCTCTCACCCCCCTC
ATCACTTACAGTGACGAGCACTTTTCTCCAGGATCACACCCGTCACACATCCCATCAGATGTCAACTCCAAACAA
GGCATGTCCAGACATCCTCCAGCTCCTGATATCCCTACTTTTTATCCCTTGTCTCCGGGTGGTGTGGACAGATC
ACCCACCTCTTGCTGGCAAGGTCAGCCTGTATATCCCATCACGGGTGGATTTCAGGCAACCCCTACCCATCCTCA
CTGTCACTGCACACTTCCATGTCCAGTTTTTCCCATCATATGATTCCCGGTCTCCTGGTCCCCACACAACCTGGC
ATCCCTCATCCAGCTATTGTAAACCTCAGGTCAAACAGGAACATCCCCACACTGACAGTGACCTAATGCACGTG
AAGCCTCAGCATGAACAGAGAAAAGGAGCAGGAGCCAAAAAGACCTCACATTAAGAAGCCTCTGAATGCTTTTATG
TTATACATGAAAGAAATGAGAGCGAATGTCGTGCTGAGTGTACTCTAAAAGAAAGTGCAGCTATCAACCAGATT
CTTGCCAGAAGGTGGCATGCCCTCTCCCGTGAAGAGCAGGCTAAATATTATGAATTAGCACGGAAGAAAGACAG
CTACAGGAATCTGCATCAGGTACAGGTCCAAGAATGACAGCTGCCTACATCTGAAACATGGTGGAAAACGAAGCT
CATTCCCAACGTGCAAAGCCAAGGCAGCGACCCAGGACCTCTTCTGGAGATGGAAGCTTGTGAAAACCCAGAC
TGCTCTCCACGGCCTGCCAGTCGACGCCAAAGGAACACTGACATCAATTTTACCCTGAGGTCACTGCTAGAGACG
CTGATCCATAAAGACAATCACTGCCAACCCCTCTTTCGTCTACTGCAAGAGCCAAGTTCCAAAATAAAGCATAAA
AAGGTTTTTTTAAAAGGAAATGTAAAAGCACATGAGAATGCTAGCAGGCTGTGGGGCAGCTGAGCAGCTTTTCTCC
CCCCATATCTGCGTGCACTTCCCAGAGCATCTTGATCCAAACCTGTAAACCTTTCGGCAAGGACGGTAACTTGGC
TGCAATTTGCCTGTCTATGCGCAACTGGAGCCAGCAACCAGCTATCCATCAGCACCCCACTGGAGGAGTTCATGGAA
GAGTTCCTCTTTGTTTTCTGCTTCATTTTTCTTTCTTTTCTTTTCTCTTAAAGCTTTTATTTAACAGTGCAAAAG
GATCGTTTTTTTTTGCTTTTTTAAACTTGAATTTTTTAAATTTACACTTTTTTAGTTTTTAAATTTCTTGATATTT
TGCTAGCTATGAGCTTTTAAATAAAATTGAAAGTTCTGGAAAAGTTTGAATAATGACATAAAAAAGAGCCTTCT
TTTTCTGAGACAGCTTGTCTGGTAAGTGGCTTCTCTGTGAATTGCCTGTAAACATAGTGGCTTCTCCGCCCTTG
TAAGGTGTTTCAGTAGAGCTAAATAAATGTAATAGCCAAACCCCACTCTGTTGGTAGCAATTGGCAGCCCTATTTT
AGTTTTATTTTTCTTCTGTTTTCTTCTTTTCTTTTTTAAACAGTAAACCTTAACAGATGCGTTCAGCAGACTGG
TTTGCACTGAATTTTCAATTTCTTTCCTTATACCCCTTGTGTGTAAGGAGCCAGCACTTGAATTGTTATTACTT
TAAATGTTCTGTATTTGTATCTGTTTTTATTAGCCAATTAGTGGGATTTTATGCCAGTTGTTAAATGAGCATTG
ATGTACCCATTTTTTAAAAAGCAAGCACAGCCTTTGCCAAAACCTGTCACTTAACGTTTGTCAATCCAGTTTG
AGTTAATGTCTGAGCATTTTTTTAAAGAGCTTTGTAATAAAACATTTTTTAAAAATTGTCATTTAAAAA
AAAAA

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FIGURE 1358

MPQLSGGGGGGGDPCLCATDEMIPFKDEGDPQKEKIFAEISHPEEEGDLADIKSSLVNESEIIPASNGHEVARQ
AQTSQEPYHDKAREHPDDGKHPDGGGLYNKGPSYSSYSGYIMPMNMNDPYMSNGSLSPPIPRISNKVPVVQPSHA
VHPLTPLITYSDEHFSPGSHPSHIPSDVNSKQGMSRHPPAPDIPTFYPLSPGGVGQITPPLGWQGQPVYPITGGF
RQPYPSSLSVDTSMRFSHHMIPGPPGPHTTGIPHPAIVTPQVKQEHPTDSDLMHVKPQHEQRKEQEPKRPHIK
KPLNAFMLYMKEMRANVVAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKK
KKRKREKLQESASGTGPRMTAAYI

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FIGURE 1359

GTGGGACTGGGATCATCAGTCTCTTCTGTGCACACTATGCGCGGCCTAGAGCGGTGTACGCGGTGGAGGCCAGTG
AGATGGCACAGCACACGGGGCAGCTGGTCCTGCAGAACGGCTTTGCTGACATCATCACCGTGTACCAGCAGAAGG
TGGAGGATGTGGTGTGCTGCCCCGAGAAGGTGGACGTGCTGGTGTCTGAGTGGATGGGGACCTGCCTGCTGTTGAGT
TCATGATCGAGTCCATCCTGTATGCCCCGGGATGCCTGGCTGAAGGAGGACGGGGTCATTTGGCCCCACCATGGCTG
CGTTGCACCTTGTGCCCTGCAGTGTGATAAGGATTATCGTAGCAAGGTGCTCTTCTGGGACAACGCGTACGAGT
TCAACCTCAGCGCTCTGAAGTAAGTGTCCACAGCTGGGACTGGCACCCTCTTGTGGGGCCTCCTGGTCCACAGTC
TGCAGGTGGGCCAAGGCCCTGGGAGATCCCATACGACGGTTGGATAAATGAGGGTACCTGTGCACCCAGATAGGA
CAATCTGTTGTAGCATTGGAGTAATTAAAGCAGTATGGTGTCTATAACAAGACAGATGGGCAGAGCAGGGTAGAAT
GCAAGGAACAAAAATTTTCGTATGTGAAAAAGGTGGCATTACGATTAGGAGGGAGTGAGGGCCAAGTCAGCAAAT
TATTCTGGAGCAGTTGATTAGCCCTTGTTCCTCAGCCATACGTGAAAACCTTAATTCTGCATGGAATCAGCGTC
AGCGACAGACATCCATGGGGGCCTGTGTGCACCATCTTAGGTGGAGAAATGAGCAGCAACAATGGATGGAATGGA
CCCTGGGCTAGATAGAATCTGGCAGTCTATGTGGCAGAAATCAGCAAAAACACGATTGTAAAAGCAAACAAGTAA
TTAGAGAAATCACGTGCTGTGTCAGGTCTTGGAATCAATTAGAAAAGAGATGACTAGCCAGATGGAATTGCAGCCCCAA
TCATGTGAACAGGCAAACCGCAAAAAATAAATAAAATTACCAATAAATACATGAAAAATTATAATGTTGTTAGTA
GTTAAATGCGAATTAAATACATGCTGTTTTCCCTACCAGACAAGCAAAGAGTAAATTAAAAATAGTAGCCCAGG
CTTGCTGGCAGTGGCAGGGAGGTGTGGCTGCCAGGGCCTTAGAGGTTGGCATCAGGCTGCCCCACCCAGTCACT
GCCAGAGCCTCCCACCTGAGTGTTCCTCCCGGCACTGGAAGCCAGTGGCCGTCCAGAGGAACGTGATTGAATTGC
TGTATATCCATCTGGTGGAGCACTGCTGTGTGTCTGTTAAAAAGAAACCATAGGTTTTTAGGGATATGTAATGA
TATTTAGAAAGGGTTTAAGAGACAGTAAAGCTTGGCAGAATAAACCGTGTATACAGAATGGATGTTTGCTTGCAT
AAATAAATTTATATAAATATGTCTGGGGGATAAAAAATAAGTATATCACAATGCTAAGACAGGCATATGGGGAATT
TAAGCTTTTCTTTATACTTGTCCATAGTTTCCAATTTTTTAAATTTGTAATTTTTTATCAGAAAAATAAATGTGTA
AATATAGTGAATCTTTATTAAACATTCACTTTTATTTGCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1360

GGCACGAGGATTTCTCATCGTCAAGCTTTGTTCCCTCGTGGGGGCTAGAAATCTCTTTCCAGTTCCAGATTGTGA
AGGGTTCTGAGTAAGCAGCGTGTCTCCATCCCCCTCTCTAGGGGCTCTTGGATGGACCTTGCACTCTAGAAGGG
ACAATGGACTTCTGGCTTTGGCCACTTTACTTCCTGCCAGTATCGGGGGCCCTGAGGATCCTCCCAGAAGTAAAG
GTAGAGGGGGAGCTGGGCGGATCAGTTACCATCAAGTGCCCACTTCCTGAAATGCATGTGAGGATATATCTGTGC
CGGGAGATGGCTGGATCTGGAACATGTGGTACCGTGGTATCCACCACCAACTTCATCAAGGCAGAATACAAGGGC
CGAGTTACTCTGAAGCAATACCCACGCAAGAATCTGTTCTAGTGGAGGTAACACAGCTGACAGAAAGTGACAGC
GGAGTCTATGCCTGCGGAGCGGGCATGAACACAGACCGGGGAAAGACCCAGAAAGTCACCCTGAATGTCCACAGT
GAATACGAGCCATCATGGGAAGAGCAGCCAATGCCTGAGACTCCAAAATGGTTTCATCTGCCCTATTTGTTCCAG
ATGCCTGCATATGCCAGTTCTTCCAAATTCGTAACCAGAGTTACCACACCAGCTCAAAGGGGCAAGGTCCCTCCA
GTTTACCACCTCCTCCCCACCACCCAAATCACCACCGCCCTCGAGTGTCCAGAGCATCTTCAGTAGCAGGTGAC
AAGCCCCGAACCTTCCTGCCATCCACTACAGCCTCAAAAATCTCAGCTCTGGAGGGGCTGCTCAAGCCCCAGACG
CCCAGCTACAACCACCACACCAGGCTGCACAGGCAGAGAGCACTGGACTATGGCTCACAGTCTGGGAGGGAAGGC
CAAGGATTTACATCCTGATCCCGACCATCCTGGGCCTTTTCTGCTGGCACTTCTGGGGCTGGTGGTGAAGAGG
GCCGTTGAAAGGAGGAAAGCCCTCTCCAGGCGGGCCCGCCGACTGGCCGTGAGGATGCGCGCCCTGGAGAGCTCC
CAGAGGCCCCGCGGGTCGCCGCGACCGCGCTCCCAAAACAACATCTACAGCGCCTGCCCCGCGGCGCTCGTGGA
GCGGACGCTGCAGGCACAGGGGAGGCCCCCGTTCCCGGCCCGGAGCGCCGTTGCCCCCGCCCCGCTGCAGGTG
TCTGAATCTCCCTGGCTCCATGCCCCATCTCTGAAGACCAGCTGTGAATACGTGAGCCTCTACCACCAGCCTGCC
GCCATGATGGAGGACAGTGATTGAGTACTACATCAATGTTCTGCTGCTGACAACTCCCCAGCTATCCCCCAACC
CCAGGCTCGGACTGTGGTGCCAAGGAGTCTCATCTATCTGCTGATGTCCAATACCTGCTTCATGTGTTCTCAGAG
CCCTCATCACTTCCCATGCCCATCTCGACTCCCATCCCATCTATCTGTGCCCTGAGCATGGCTCTGCCCCCAG
GTCGTCTTGACACCTTGGCAGCCCCCTGTAGTTGACAGGTAAGCTGTAGGCATGTAGAGCAATTGTCCCAATGC
CACTTGCTTCCTTTCCAAGCCGTCGAACAGACTGTGGGATTTGCAGAGTGTTCCTTCATGTCTTTGACCACAGG
GTTGTTGCTGCCCAGGCTCTAGATCACATGGCATCAGGCTGGGGCAGAGGCATAGCTATTGTCTCGGGCATCCTT
CCCAGGGTTGGGTCTTACACAAATAGAAGGCTCTTGCTCTGAGTTATGTGACATGCCTCAGCCCCATGGACTAAG
CAGGGGTCTGGTATAAAAACACTCCTGGAACGCCTTTGCCCTGATCCAAATGTTAGCACTTGCTAGTGAACGTC
TACTTATCTCAAGTTCTATGCTAAAGGCAATTTATCTTGATGTGATGATAAACCAAACTTATTAGCAAGATATGC
ATATATATCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1361

MDFWLWPLYFLPVSGALRILPEVKVEGELGGSVTIKCPLPEMHVRIYLCREMAGSGTCGTVVSTTNFIKAEYKGR
VTLKQYPRKNLFLVEVTQLTESDSGVYACGAGMNTDRGKTQKVTNLNVHSEYEPSWEEQPMPEPKWFHLPYLFQM
PAYASSSKFVTRVTTPAQRGKVPPVHHSSPTTQITHRPRVSRASSVAGDKPRTFLPSTTASKISALEGLLKQPOT
SYNHHTRLHRQRALDYGSQSGREGQGFHILIPTILGLFLLALLGLVVKRAVERRKALSRRARRLAVRMRALESSQ
GPRPRSQNNIYSACPRRARGADAAGTGEAPVPGPGAPLPPAPLQVSESPWLHAPSLKTSCEYVSLYHQPAA
GSDDYINVPA

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FIGURE 1362

CGGACGCGTGGGGAGAGGCTGTTTACCAGAACAGCATAACAAGGGCAGGTCTGACTGCAAGGCTGGGACTGGGAG
GCAGAGCCGCCGCCAAGGGGGCCTCGGTAAACACTGGTTCGTTCAATCACCTGCAAGACGAAGGAGGCAAGGATG

CTGTTGGCCTGGGTACAAGCATTCCCTCGTCAGCAACATGCTCCTAGCAGAAGCCTATGGATCTGGAGGCTGTTTC
TGGGACAACGGCCACCTGTACCGGGAGGACCAGACCTCCCCGCGCCGGGCTCCGCTGCCTCAACTGGCTGGAC
GCGCAGAGCGGGCTGGCCTCGGCCCCCGTGTGCGGGGCGGCAATCACAGTTACTGCCGAAACCCGGACGAGGAC
CCGCGCGGGCCCTGGTGCTACGTCACTGCGGAGGCGGCGTCCCTGAGAAACGGCCTTGCGAGGACCTGCGCTGT
CCAGAGACCACCTCCAGGCCCTGCCAGCCTTCACGACAGAAATCCAGGAAGCGTCTGAAGGGCCAGGTGCAGAT
GAGGTGCAGGTGTTGCTCCTGCCAACGCCCTGCCGCTCGGAGTGAGGCGGCAGCTGTGCAGCCAGTGATTGGG
ATCAGCCAGCGGGTGCGGATGAACCTCAAGGAGAAAAAGGACCTGGGAACTCTGGGCTACGTGCTGGGCATTACC
ATGATGGTGATCATCATTGCCATCGGAGCTGGCATCATCTTGGGCTACTCCTACAAGAGGGGGAAGGATTTGAAA
GAACAGCATGATCAGAAAGTATGTGAGAGGGAGATGCAGCGAATCACTCTGCCCTTGTCTGCCTTCACCAACCCC
ACCTGTGAGATTGTGGATGAGAAGACTGTGCTGGTCCACACCAGCCAGACTCCAGTTGACCCTCAGGAGGGCAGC
ACCCCCCTTATGGGCCAGGCCGGGACTCCTGGGGCCTGAGCCCCCAGTGGGCAGGAGCCCATGCAGACACTGG
TGCAGGACAGCCCACCCTCCTACAGCTAGGAGGAACTACCACTTTGTGTTCTGGTTAAACCTTACCCTCCCC
GCTTTTTTGGCGAATCCTAGTAAGAGTGACAGAAGCAGGTGGCCCTGTGGGCTGAGGGTAAGGCTGGGTAGGGTC
CTAACAGTGCTCCTTGTCCATCCCTTGGAGCAGATTTTGTCTGTGGATGGAGACAGTGGCAGCTCCCACAGTGAT
GCTGCTGCTAAGGGCTTCCAAACATTGCCTGCACCCCTGGAACGAACCAGGGATAGACGGGGAGCTCCCCCAGG
CTCCTCTGTGCTTTACTAAGATGGCCTCAGTCTCCACTGTGGGCTTGAGTGGCATACACTGTTATTTCATGGTTAA
GGTAAAGCAGGTCAAGGGATGGCATTGAAAAAATATATTTAGTTTTTAAATATTTGGGATGGAACCTCCCTACTG
ACCTCTGAGAACTGGAAACGAGTTTGTACAGAAGTCAGAACTTTGGGTTGGGAATGAGATCTAGGTTGTGGCTGC
TGGTATGCTTCAGCTTGCTGGCAATGATGTGCCTTGACAACCGTGGGCCAGGCCTGGGCCCAGGGACTCTTCCTG
TTTCATAAGGAAAGGAAGAATTGCACTGAGCATTCCACTTAGGAAGAGGATAGAGAAGGATCTGCTCCGCCTTG
GCCACAGGAGCAGAGGCAGACCTGGGATGCCCCAGTTTCTCTTCAGGGATGGATAGTGACCTGTCTTCATTTTGC
ACAGGTAAGAGAGTAGTTAGCTAACCTATGGGAATTATACTGTGGGGCCTTGTGAGCTGCTTCTAAGAGGCTAAC
CTGGAACTAAGCTCAGAGGCAAGGTAATAAAGCACTTCAGGGCTTGCTCCCCAAGTGGGCCTGATTTAGCAGGT
GGTCTGCGGGCGTCCAGGTGAGCACCTTCCTGTAGGGCACTGGGGCTAGGGTCACAGCCCCTAACTCATAAAGC
AATCAAAGAACCATTAGAAAGGGCTCATTAAAGCCTTTTGGACACAGGACCCAGAGAGGAAAAAGTGACTTGCCC
AAGGTCGTAAGCAAGCTACTGGCATGGCAAGAGCCCAGCTTCTGACGGAGCGCAACATTTCTCCACTGCACTGT
GCTAGCAGCTCAGCAGGGCCTCTAACCTGTGATGTCACACTCAAGAGGCCTTGGCAGCTCCTAGCCATAGAGCTT
CCTTTCCAGAACCCTTCCACTGCCCAATGTGGAGACAGGGGTTAGTGGGGCTTCTATGGAGCCATCTGCTTTGG
GGACCTAGACCTCAGGTGGTCTCTTGGTGTAGTGATGCTGGAGAAGAGAAATATTAGGTTTCTACTTTTCTAT
AAAGGCATTTCTCTATATACATGTTTTATATACCTCATTCTGACACCTGCATATAGTGTGGGAAATTGCTCTGCA
TTTGACTTAATTAATAAAAAAAAAAAAAA

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FIGURE 1363

MLLAWVQAFVLSNMLLAEAYGSGGCFWDNGHLYREDQTSPAPGLRCLNWLDASGLASAPVSGAGNHSYCRNPDE
DPRGPWCYVSGEAGVPEKRPCEDLRCPETTSQALPAFTTEIQEASEGPGADEVQVFAPANALPARSEAAAVQPVI
GISQVRMNSKEKKDLGTLGYVLGITMMVIIIAIGAGIILGYSYKRGKDLKEQHDQKVCEREMQRITLPLSAFTN
PTCEIVDEKTVVVHTSQTPVDPQEGSTPLMGQAGTPGA

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FIGURE 1364

AAAATAAAGATGACTATATCAGAGACTTGAAAAGGATCATTCTCTGTTTTCTGATAGTGTATATGGCCATTTTAG
TGGGCACAGATCAGGATTTTTACAGTTTACTTGGAGTGTCCAAACTGCAAGCAGTAGAGAAATAAGACAAGCTT
TCAAGAAATTGGCATTGAAGTTACATCCTGATAAAAACCCGAATAACCCAAATGCACATGGCGATTTTTTAAAAA
TAAATAGAGCATATGAAGTACTCAAAGATGAAGATCTACGGAAAAAGTATGACAAATATGGAGAAAAAGGGACTG
AGGATAATCAAGGTGGCCAGTATGAAAGCTGGAACATTATCGTTATGATTTTGGTATTTATGATGATGATCCTG
AAATCATAACATTGGAAGAAGAGAATTTGATGCTGCTGTTAATTCTGGAGAACTGTGGTTTGTAATTTTTACT
CCCCAGGCTGTTACACTGCCATGATTTAGCTCCACATGGAGAGACTTTGCTAAAGAAGTGGATGGGTACTTC
GAATTGGAGCTGTTAACTGTGGTGATGATAGAATGCTTTGCCGAATGAAAGGAGTCAACAGCTATCCAGCCTCT
TCATTTTTCGGTCTGGAATGGCCCCAGTGAAATATCATGGAGACAGATCAAAGGAGAGTTTAGTGAGTTTTGCAA
TGCAGCATGTTAGAAGTACAGTGACAGAACTTTGGACAGGAAATTTTGCAACTCCATACAACTGCTTTTGCTG
CTGGTATTGGCTGGCTGATCACTTTTTGTTCAAAGGAGGAGATTGTTGACTTCACAGACACGACTCAGGCTTA
GTGGCATGTTGGATGGTCTTGTTAATGTAGGATGGATGGACTGTGCCACCCAGGATAACCTTTGTAAGCTTAG
ATATTACAACAAGTACTACTGCTTATTTTCTCCTGGAGCCACTTTAAATAACAAAGAGAAAAACAGTATTTTGT
TTCTCAACTCATTGGATGCTAAAGAAATATATTTGGAAGTAATACATAATCTTCCAGATTTTGAAGTACTTTTCGG
CAAACACACTAGAGGATCGTTTGGCTCATCATCGGTGGCTGTTATTTTTTCAATTTGGAAAAAATGAAAATTCAA
ATGATCCTGAGCTGAAAAAACTAAAACTCTACTTAAAAATGATCATATTCAAGTTGGCAGGTTTCGACTGTTCTT
CTGCACCAGACATCTGTAGTAATCTGTATGTTTTTCAGCCGTCTCTAGCAGTATTTAAAGGACAAGGAACCAAAG
AATATGAAATTCATCATGGAAAGAAGATTCTATATGATATACTTGCCTCTGCCAAAGAAAGTGTGAATTCTCATG
TTACCACGCTTGGACCTCAAAAATTTTCTGCCAATGACAAAGAACCATGGCTTGTTGATTTCCTTTGCCCCCTGGT
GTCCACCATGTGAGCTTTTACTACCAGAGTTACGAAGAGCATCAAATCTTCTTTATGGTCAGCTTAAGTTTGGA
CACTAGATTGTACAGTTTCATGAGGGACTCTGTAACATGTATAACATTCAAGGCTTATCCAACAACAGTGGTATTCA
ACCAGTCCAACATTTCATGAGTATGAAGGACATCACTCTGCTGAACAAATCTTGGAGTTTCATAGAGGATCTTATGA
ATCCTTCAGTGGTCTCCCTTACACCCACCACCTTCAACGAAGTACACAAAGAAAACACAACGAAGTCTGGA
TGGTTGATTTCTATTCTCCGTGGTGTATCCTTGCCAAGTCTTAATGCCAGAATGGAAAAGATGGCCCGGACAT
TAACTGGACTGATCAACGTGGGCAGTATAGATTGCCAACAGTATCATTCTTTTTGTGCCAGGAAAACGTTCAAA
GATACCTGAGATAAGATTTTTTCCCCGAAATCAAATAAAGCTTATCATTATCACAGTTACAATGGTTGGAATA
GGGATGCTTATCCCTGAGAATCTGGGGTCTAGGATTTTTTACCTCAAGTATCCACAGATCTAACACCTCAGACTT
TCAGTGAAAAAGTTCTACAAGGGAAAAATCATTGGGTGATTGATTCTATGCTCCTTGGTGTGGACCTTGCCAGA
ATTTTGCTCCAGAATTTGAGCTCTTGGCTAGGATGATTAAAGGAAAAAGTGAAAGCTGGAAAAGTAGACTGTCAGG
CTTATGCTCAGACATGCCAGAAAGCTGGGATCAGGGCCTATCCAAGTGTAAATTTTATTTCTACGAAAGAGCAA
AGAGAAATTTTCAAGAAGAGCAGATAAATACCAGAGATGCAAAAGCAATCGCTGCCTTAATAAGTGAAAAATTGG
AACTCTCCGAAATCAAGGCAAGAGGAATAAGGATGAACTTTGATAATGTTGAAGATGAAGAAAAAGTTTAAAG
AAATTCTGACAGATGACATCAGAAGACACCTATTTAGAATGTTACATTTATGATGGGAATGAATGAACATTATCT
TAGACTTGCAAGTTGTACTGCCAGAATTATCTACAGCACTGGTGTAAAGAAGGGTCTGCAAACTTTTTCTGTAAA
GGGCCGGTTTATAAATATTTTAGACTTTGCAGGCTATAATATATGGTTCACACATGAGAAC

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FIGURE 1365

MAILVGTDQDFYSLGVSKTASSREIRQAFKKLALKLHPDKNPNNPNAHGDFLKINRAYEVLKDEDLRKKYDKYG
EKGLEDNQGGQYESWNYRYDFGIYDDPEIITLERREFDAAVNSGELWVFVNFYSPGCSHCHDLAPTWRDFAKEV
DGLLRIGAVNCGDDRMLCRMKGVNSYPSLFIFRSGMAPVKYHGDRSKESLVSFAMQHVRSTVTELWTGNFVNSIQ
TAFAGIGWLITFCSKGGDCLTSQTRLRLSGMLDGLVNVGWMDCATQDNLCKSLDITTTTAYFPPGATLNNKEK
NSILFLNSLDAKEIYLEVIHNLPDFELLSANTLEDRLAHHRWLLFFHFGKNENSNDPELKKLKTLLKNDHIQVGR
FDCSSAPDICSNLYVFQPSLAVFKGQGTKEYEIHGKKILYDILASAKESVNSHVTTLGPQNFPANDKEPWLVD
FAPWCPPCRALLPELRRASNLLYGQLKFGTLDCTVHEGLCNMYNIQAYPTTVVFNQSNIEYEGHSAEQILEFI
EDLMNPSVVS LTPTTFNELVTQRKHNEVWMVDFYSPWCHPCQVLMPEWKRMARTLTGLINVGSIDCQYHSFCAQ
ENVQRYPEIRFFPPKSNKAYHYHSYNGWNRDAYSLRIWGLGFLPQVSTD LTPQTFSEKVLQGNHWVIDFYAPWC
GPCQNFAPFELLARMIKGKVKAGKVDCQAYAQTCQAGIRAYPTVKFYFYERAKRNFQEEQINTRDAKAI AALI
SEKLETLRNQGKRNKDEL

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FIGURE 1366

[illegible]

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FIGURE 1367

MSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAEESEDEEEEDVKLLSISGKRSAPGGGSKVPQKK
VKLAADEDDEDDDEDDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQESFKK
QEKTPKTPKGPSSVEDIKAKMQASIEKAH

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FIGURE 1368

AAGCCGTGCGCTCCCGGGCTGCGAGGTCTGGCTAGGCTACGGGCCACGCGCCGCCGCGCTGCCGCCGCCACTGT
CCTCTTCGGAGGCGCGGGCCCCGACGGAAACCATGTTTGTGGCTCGCAGCATCGCGGCGGACCACAAGGATCTCAT
CCACGATGTCTCTTTTCGACTTCCACGGGCGGCGGATGGCAACCTGCTCCAGCGATCAGAGCGTTAAGGTCTGGGA
TAAAAGTGAAAGTGGTGATTGGCATTGTACAGCTAGCTGGAAGACACATAGTGGATCTGTATGGCGTGTGACATG
GGCCCATCCTGAATTTGGGCAAGTTTGGCTTCTGTTCTTTTGACCGAACAGCTGCTGTATGGGAAGAAATAGT
AGGAGAATCAAATGATAAACTGCGAGGACAGAGCCACTGGGTTAAAAGGACAACCTCTGGTGGATAGCAGAACATC
TGTTACTGATGTGAAGTTTGCTCCCAAGCACATGGGTCTTATGTTAGCAACCTGTTCCGCAGATGGTATAGTAAG
AATCTATGAGGCACCAGATGTTATGAATCTCAGCCAGTGGTCTTTGCAGCATGAGATCTCATGTAAGCTAAGCTG
TAGTTGCATTTCTTGAACCCCTTCAAGCTCTCGTGCTCATTCCCCCATGATCGCCGTAGGAAGTGATGACAGTAG
CCCCAACGCAATGGCCAAGGTTTCAGATTTTGAATATAATGAAAACACCAGGAAATATGCAAAAGCTGAAACTCT
TATGACAGTCACTGATCCTGTTTCATGATATTGCATTGCTCCAAATTTGGGAAGATCTTTCCATATTCTAGCAAT
AGCGACCAAAAGATGTGAGAATTTTACATTAAAGCCTGTGAGGAAAGAACTGACTTCTCTGGTGGGCCAACAAA
GTTTGAATCCATATAGTGGCTCAGTTCGATAATCATAATTCTCAGGTCTGGCGAGTGAGTTGGAATATAACAGG
AACGGTGCTAGCATCTTCAGGAGATGATGGGTGTGTAAGATTGTGGAAGCTAATTATATGGACAATTGGAAGTG
TACTGGTATTTTGAAGGTAATGGGAGCCCAGTCAATGGGAGTTCTCAGCAGGGAACCTCAAATCCTTCCCTAGG
TTCAAATATTCCAAGTCTTCAGAATTCATTAAATGGATCTTCTGCTGGCAGAAAGCACAGCTGAGACAAGCTAAC
TGGAGTAACTTGTCTGTTTTGCTGCTTGTTCATGCACACTGGAATGGAAAGCGAGCTCCCTTTTCCCTTCCCC
AGCGCCGTTTGACCTCTCCCAAGGATACACCAGCAGCCTGCTTACTACTAAACGCAATCCAAAAGGCCTTTAAAA
ATACAGTGTATATTTTTTGTACTAGTCAGTTTATTGACACTATTTGAACTTTTGAATATAAACGGAGAGGCTT
TCTGTTGAGACATTGTACCAAAACAATTTTTGAAATGTTCCCTGAACTAATTTGGGTTTAAAGATTAAAAAGG
TTGTTACCATTCTTATCTGAGTAGTTGGGAGGAGGGGAATACCCTTTAGTTCAATTTGGAATAATAGACATATT
TCTTTTGCTTTCTTAAACAGCTTAAAAATGATGAACTTTTATAATTTTAAATTTGAAGATTGAATAAATATTTTT
ATAAAGATTGTTTTGAGTGCTGATTTGTTTACTTTTTGTAGATTGCTTTATCCATGATATTCACTACAACTCTG
TCATTTCTTTGTAATATTTAAAAAATATTAGTAAAGGAGTGAATTAATAAAGTAGTAATAGTAAATGAAAGGAA
CTTGACTGTACAGTTTGTAGCCAGGTTAAGGCATTGGGTATTGTTTCATTTAACCAATTTGGGGACTAAGATG
GGAAACACTTTTTTTTATTAAGTTTTTAAATTCATAGTCACTAAAGAGATAAATGTTTCTTATATACATTTGTGTAT
TTTTATGGTGTTATTTATTCATGGCTTAGCTTCTTCAAATCAAAATTTGGACACACACTATTAAGAGAAGCCA
TTAAATTTTACTAAAATTTGTGCATGTAAATTAATTGTGAGCATTCCATGTCTCAAGATTTCTTAATTTAGTTT
GCTGTTTAAATTAATTCATGTCCTGTAAAGTTCTGACCTTGATAACAAAGCTATAAATATTTAAGTTTGCTAATA
TGCGTAAGTATTATCGGTAAGTTACAAGATGGAAGAAGAATAACAGTAGGGCACAGTCATTCTGTGAATCCTTTT
ACTTATCAAAATTTGGTAGCTATTCTAAGGCTTTTGCAGAAAAATAAGTGTTCAATGTTTGTAGTTCTTCAAAAG
CATGTTGCAGTAGCCAGCCATACTATGTGATTCCAGTATCATGTACGCACTAAAAAAATGTGTGCTTGCTGC
TGCTGTGAGTGAACCATTGCTTAAGATAAAAACTTAACTAGATCTGTAATGTACAGAATAGCATCAGATGTTT
CTGAGAGATTAGGAAATGTTTTGAATTTATAAAATTAATGTTTTTCTTTGTAACATTTATATATATTTTTTAAC
ATTTTAAGTTTAAACAGATTGTATTCTTTCAAGTTTCTATACTTGCTTAAGCAATCTTGATTGAGTAAGGGTCT
TGATTTGTGCTATTATGTTCTGTTAGTTTGGCATGAATATACTAAAGCTTTTTTTTTTTTTTTTAGCATGTGTT
TTCTCCTCTTTGGTCTCTTTGTATTTACTACTTTTCTCTTTTCTTGTGTTTTTTTTTCTGTTTTTGTTTTG
TTTGGTGTTTGTTCTGCTTTCATTGTTTTCAGGTATTTCTTTACCCCTCTGGATTCCCCACGGGCTGGATCGAG
ATGGTCCAGTTATGCCAGCTCCTTCTCCTCCTCCTCCTCCTCTGGTAGAGCACTCTTGCGATGCTGACACTGC
CAACCTCCAGTATCCTCACCTCGCAGACGATATCTCTCGGCCTCTTAATCCCTTACCTGAGAATGAAGGGAT
TTAAACACTGATTTAAACATTGAAAGGCCCTTATCAAGTGCTTGTAATGCTTTCAATTTCTGGCTGCTTTTTGTT
TTTCAATTTCTTTTCAAGATTTTTCTAACTTAGGCTGTGCTTGCATGTATTACAACCAGAATACAGTGTTTGG
AACCTAAATCTGTTTGTGCGTCTGCATCAAAGGAACATTGCTTCACTGGGTGATAACCTTTGATGAAATGAGAT
ATGTCCAAGTAACGTTAACTGTGAAGTTACACACAGTAGCTGACTTCAAAGTGCTGTTTCTGTAATTTTATTT
TAACTGTTACCATAGTCTTAAGTTGTTTATGCTTTATCAGACTGGCTAATGTGAAAGCATAATATTATGAAGTT
TATTCTGCCTTATGAGACCTTAAAAAATGGATTTCATTTTACAGGCTAATGTTGTAAGTACTAGTATGTAAT
AAATCATTCTGTGTATAAAGCAGCAAAACCTAAAAA

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FIGURE 1369

MFVARSLAADHKDLIHDVSFDFHGRRMATCSSDQSVKVWDKSESGDWHCTASWKTHSGSVWRVTWAHPEFGQVLA
SCSFDRTAAVWEEIVGESNDKLRGQSHWVKRTTLVDSRTSVTDVKFAPKHMGLMLATCSADGIVRIYEAPDVMNL
SQWSLQHEISCKLSCSCISWNPSSSRAHSPMIAVGSDDSSPNAMAKVQIFEYNENTRKYAKAETLMTVTDVPVHDI
AFAPNLGRSFHILAIATKDVRIFTLKPVRKELTSSGGPTKFEIHIVAQFDNHNSQVWRVSWNITGTVLASSGDDG
CVRLWKANYMDNWKCTGILKGNGSPVNGSSQQGTSNPSLGSNIPSLQNSLNGSSAGRKHS

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FIGURE 1370

GGCGTCCCCTCCGTGAGGTGCGGCCCCGTTGCGACCGCCCCCGCCGCAAGAAAGATGGCAGTGGCCTGATCCGGG
CCCCTTGGCGGCGTCACTGACGCTTCGCTCCGGTCCCTCGGATCCCGAGCGCGGGGAGGCAGACCGACTGTGAGCT
GCTTGTCCCCATCCTGCGGCCGTCTGGGGACACAGAGCCCTCCGTGGTGCCCGGGATTGGATTGGAGCCAGGA
CCTCACTTCCTCCTCTGCCCCCTGCCCCCTCCAGCACCTGGCCACACCCCTGCAGCCCCGCCCATGGTCT
GGCCCTGGGTGGCGATGGCGTCCAGGTGGGGTCCCCCTCATTGGCCTGGCTCCGTGCTGCCTCTGGCTCCTGGGG
CAGTCCTTCTGATGGACGCGTCTGCACGGCCTGCCAACCCTCGTCCACTCGAGAGAGAGTAGCCAACAGGGAGG
AGAATGAGATCCTGCCCCAGACCACCTGAACGGGGTGAAGCTGGAGATGGACGGGCACCTCAATCGCGGCTTCC
ACCAGGAGGTCTTCCTAGGCAAGGACCTGGGTGGCTTTGATGAGGACGCGGAGCCGCGGCGGAGCCGGAGGAAGC
TGATGGTTCATCTTTTCCAAGGTGGATGTGAACACTGACCGGAAGATCAGTGCCAAGGAGATGCAGCGCTGGATCA
TGGAGAAGACGGCCGAGCACTTCCAGGAGGCCATGGAGGAGAGCAAGACACACTTCCGCGCCGTGGACCCTGACG
GGGACGGTCACGTGTCTTGGGACGAGTATAAGGTGAAGTTTTTGGCGAGTAAAGGCCATAGCGAGAAGGAGGTTG
CCGACGCCATCAGGCTCAACGAGGAACCTCAAAGTGGACGAGGAAACACAGGAAGTCCCTGGAGAACCTGAAGGACC
GCTGGTACCAGGCGGACAGCCCCCTGCAGACCTGCTGCTGACGGAGGAGGAGTTCTGTGCTTCCCTCCACCCCG
AGCACAGCCGGGGAATGCTCAGGTTTCATGGTGAAGGAGATCGTCCGGGACCTGGACCAGGACGGTGACAAGCAGC
TCTCTGTGCCCCGAGTTTCATCTCCCTGCCCCGTGGGCACCGTGGAGAACCAGCAGGGCCAGGACATTGACGACAACT
GGGTGAAAGACAGAAAAAAGGAGTTTGAGGAGCTCATTGACTCCAACCACGACGGCATCGTGACCGCCGAGGAGC
TGGAGAACGTGCCACACTCCCGCTGCAGCCAATAGGCACCTTAAATAGCCACTTCGTGCGGCTGGCCGCGGAGC
TCGGAGGGGGAAAGGCGACGCTGACCTGTGCCCCGCTCGCCCGCAGAGCTACATGGACCCCATGAACGAGTACAA
CGCGCTGAACGAGGCCAAGCAGATGATCGCCGTCGCCGACGAGAACCAGAACCACCACCTGGAGCCCCGAGGAGGT
GCTCAAGTACAGCGAGTTCTTACGGGCAGCAAGCTGGTGGACTACGCGCGCAGCGTGACGAGGAGTTTTGAGC
GCCCCGCCGCGCCCCCGCGCCGCCCCACGCACCACCGGGGGGGCCTCGCGGGTGAATCCGGCCTCCGTGGCTGT
CCCGGACCCCACTCTTCTGCCCCCACCACCGGCCGACCGACCGGCTTCCCCAGTTGATGAGCGGCGTGT
CCCCCTCTGCAGCGCGCACCCCGCGGGGCTTTGGCTGTGACGCGGTGCGGGCGCGGGGCTGGTCTGTGGCCCCGC
GGCGCGCCTCCTCCCTGGTCCCTCGAAATCGTGGCATCTCACTTCTGAGAACGAAATCTCGCTTCAGTCACTCTG
CCGAAGGCGCTGACGGCATCGCGGCCGAACCTCTGGGCCCGGCCCTCCAGGGCCGCGCTCCGTGGGAAAAA
ACAGCTCCTCCATTTCCCTTGGAACTGAACGATTATTAATAAATAGATAAACTTCGCTGGAAATGAGTAGCCAGGA
AGTTCAGGGGAGGGTCCGGGGTCTTCCCGGGGCTGGCGTGTGCGAACCACCCAGGTCCCGCAGCTGCCTCTGA
GAAATCCAAATATTTTTTGTGACAAGAATCACAAACATTTACTTTAAATATAAAAAAAAAAAAAA

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FIGURE 1371

MVWPWVAMASRWGPLIGLAPCCLWLLGAVLLMDASARPANHSSTREERVANREENEILPPDHLNGVKLEMDGHLNR
GFHQEVFLGKDLGGFDEDAEPRRSRRKLMVIFSKVDVNTDRKISAKEMQRWIMEKTAEHFQEAMEESKTHFRAVD
PDGDGHVSWDEYKVKFLASKGHSEKEVADAIRLNEELKVDEETQEVLENLKDRWYQADSPPADLLLTEEEFLSFL
HPEHSRGMLRFMVKEIVRDLDDQDGDKQLSVPEFISLPVGTVENQQGQDIDDNWVKDRKKEFEELIDSNHDGIVTA
EELESYMDPMNEYNALNEAKQMIAVADENQNHLEPEEVLKYSEFFTGSKLVDYARSVHEEF

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FIGURE 1372

GGCACGAGGGTCCCTGGGCCGGACGGCGGTGTCCCGGCGTGGCGGGAAGCCGGCACTGGAGCGGGAGCGCACTGG
GCGCGGGACCGGGAGGCGCAGGGACCGGACGGCTCCCGAGTCGCCACCTGACGCTAGAAGAAGTCTTCACTTCC
CAGGAGAGCCAAAGCGTGTCTGGCCCTAGGTGGGAAAAGAACTGGCTGTGACCTTTGCCCTGACCTGGAAGGGCC
CAGCCTTGGGCTGAATGGCAGCACCCACGCCCCCGCTCCGGTGTGACCCACCTGCTGGTGGCTCTCTTCGGCA
TGGGCTCCTGGGCTGCGGTCAATGGGATCTGGGTGGAGCTACCTGTGGTGGTCAAAGAGCTTCCAGAGGGTTGGA
GCCTCCCCCTCTTACGTCTCTGTGCTTGTGGCTCTGGGGAACCTGGGTCTGCTGGTGGTGAACCTCTGGAGGAGGC
TGGCCCCAGGAAAGGACGAGCAGGTCCCCATCCGGGTGGTGCAGGTGCTGGGCATGGTGGGCACAGCCCTGCTGG
CCTCTCTGTGGCACCATGTGGCCCCAGTGGCAGGACAGTTGCATTCTGTGGCCTTCTTAGCACTGGCCTTTGTGC
TGGCACTGGCATGCTGTGCCTCGAATGTCACTTTCTGCCCTTCTTGAGCCACCTGCCACCTCGCTTCTTACGGT
CATTCTTCTGGGTCAAGGCCTGAGTGCCCTGCTGCCCTGCGTGTGGCCCTAGTGCAGGGTGTGGGCCGCTCG
AGTGCCCCGCCAGCCCCCATCAACGGCACCCCTGGCCCCCGCTCGACTTCTTGAGCGTTTCCCGCCAGCACCT
TCTTCTGGGCACTGACTGCCCTTCTGGTCGCTTACAGTGTGCTTCCAGGGTCTTCTGCTGCTGTGGCCGCCAC
CACCATTGTACCCACAGGGGAGTTAGGATCAGGCCTCCAGGTGGGAGCCCCAGGAGCAGAGGAAGAGGTGGAAG
AGTCCTCACCCTGCAAGAGCCACCAAGCCAGGCAGCAGGCACCACCCCTGGTCCAGACCCTAAGGCCTATCAGC
TTCTATCAGCCCGCAGTGCCTGCCTGCTGGGCCTGTTGGCCGCCACCAACGCGCTGACCAATGGCGTGTGCCTG
CCGTGCAGAGCTTTTCTGCTTACCCTACGGGCGTCTGGCCTACCACCTGGCTGTGGTGTGGGCAGTGTGCCA
ATCCCCCTGGCCTGCTTCTGGCCATGGGTGTGCTGTGCAGGTCCCTTGGCAGGGCTGGGCGGCCTCTCTCTGCTGG
GCGTGTCTGTGGGGGCTACCTGATGGCGCTGGCAGTCCCTGAGCCCCCTGCCCGCCCCTGGTGGGCACCTCGGCGG
GGGTGGTCCCTCGTGGTGTGCTGTGCTGGGTGTGCTTGGCGTGTCTCCTACGTGAAGGTGGCAGCCAGCTCCC
TGCTGCATGGCGGGGGCCGGCCGGCATTGCTGGCAGCCGGCGTGGCCATCCAGGTGGGCTCTCTGCTCGGCGCTG
TTGCTATGTTCCCCCGACCAGCATCTATCAGTGTTCACAGCAGAAAGGACTGTGCAGACCCCTGTGACTCCT
GAGCCTGGGCAGGTGGGGACCCGCTCCCCAACACCTGTCTTCCCTCAATGCTGCCACCATGCCTGAGTGCCTG
CAGCCCAGGAGGCCCGCACACCGGTACACTCGTGGACACCTACACACTCCATAGGAGATCCTGGCTTTCCAGGGT
GGGCAAGGGCAAGGAGCAGGCTTGGAGCCAGGGACCAGTGGGGGCTGTAGGGTAAGCCCCTGAGCCTGGGACCTA
CATGTGGTTTGCCTAATAAAACATTTGTATTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1373

MAAPTPARPVLTHLLVALFGMGSWAAVNGIWVELPVVVKELPEGWSLPSYVSVLVALGNLGLLVVTLWRRRLAPGK
DEQVPIRVVQVLGMVGTALLASLWHHVAPVAGQLHSVAFALAFVLALACCASNVTFLPFLSHLPPRFLRSFFLG
QGLSALLPCVLALVQGVGRLECPPAPINGTPGPPLDFLERFPASTFFWALTALLVASAAAFQGLLLLLPPPPSVP
TGFLGSGLQVGAPGAEEEEVEESSPLQEPPSQAAGTTPGPDPKAYQLLSARSACLLGLLAATNALTNGVLPVAVQSF
GRLAYHLAVVLGSAANPLACFLAMGVLCRSLAGLGGLSLLGVFCGGYLMALAVLSPCPPLVGTSAAGVVLV
LCLGVFSYVKVAASSLLHGGGRPALLAAGVAIQVGSLLGAVAMFPPTSIYHVFHSRKDCADPCDS

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FIGURE 1374

GGCACGAGGGTCCGCGGGAGCCGCCGCCGCCGCTCCCGTCCCAGCTGCCGCCCCGCGCGGGCCCCGCCGCCGGC
CAGGATGCTGGAGGAAGCGGGCGAGGTGCTGGAGAACAATGCTGAAGGCGTCTTGCTGCTCTCGGCTTCATCGT
CTTCTGCCCCGCTGTGCTGCTGCTGGTGGCGCCGCCGCTGCCTGCCGCCGACGCCGCGCACGAGTTACCGTGTA
CCGCATGCAGCAGTACGACCTGCAGGGCCAGCCCTACGGCACACGGAATGCAGTGCTGAACACGGAGGCGCGCAC
GATGGCGGGCGAGGTGCTGAGCCGCCGCTGCGTGCTCATGCGGCTACTGGACTTCTCTACGAGCAGTACCAGAA
GGCCCTGCGGCAGTCGGCGGGCGCCGTGGTCATCATCTGCCAGGGCCATGGCCGCCGTGCCCCAGGACGTCGT
CCGGCAATTTCATGGAGATCGAGCCGGAGATGCTGGCCATGGAGACCGCCGTCCCCGTGTACTTTGCCGTGGAGGA
CGAGGCCCTGCTGTCTATCTACAAGCAGACCCAGGCTGCCTCCGCCTCCCAGGGCTCCGCCTCTGCTGCTGAAGT
ACTGCTGCGCACGGCCACTGCCAACGGCTTCCAGATGGTCACCAGCGGGGTACAGAGCAAGGCCGTGAGTGACTG
GCTGATTGCCAGCGTGGAGGGGCGGCTGACGGGGCTGGGCGGAGAGGACCTTCCCACCATCGTCATCGTGGCCCA
CTACGACGCCTTTGGAGTGGCCCCCTGGCTGTGCTGCGTGGGCGCGGACTCCAACGGGAGCGGCGTCTCTGTGCTGCT
GGAGCTGGCAGCCTCTTCTCCCGGCTCTACACCTACAAGCGCACGCACGCCCTACAACCTCCTGTTCTTTGC
GTCTGGAGGAGGCAAGTTTAACTACCAGGGAACCAAGCGCTGGCTGGAAGACAACCTGGACCACACAGACTCCAG
CCTGCTTCAGGACAATGTGGCCTTCGTGCTGTGCTGGACACCGTGGGCGGGGCGAGCAGCCTGCACCTGCACGT
GTCCAAGCCGCCTCGGGAGGGCACCCTGCAGCACGCCTTCCTGCGGGAGCTGGAGACGGTGGCCGCGCACCAAGTT
CCCTGAGGTACGGTTCTCCATGGTGCACAAGCGGATCAACCTGGCGGAGGACGTGCTGGCCTGGGAGCACGAGCG
CTTCGCCATCCGCCGACTGCCCGCCTTCACGCTGTCCCACCTGGAGAGCCACCGTGACGGTCAGCGCAGCAGCAT
CATGGACGTGCGGTCCCGGTGGATTCTAAGACCCTGACCCGTAACACGAGGATCATTGCAGAGGCCCTGACTCG
AGTCATCTACAACCTGACAGAGAAGGGGACACCCCCAGACATGCCGGTGTTACAGAGCAGATGCAGATCCAGCA
GGAGCAGCTGGACTCGGTGATGGACTGGCTACCAACCAGCCGCGGGCCGCGCAGCTGGTGGACAAGGACAGCAC
CTTCCTCAGCACGCTGGAGCACCACCTGAGCCGCTACCTGAAGGACGTGAAGCAGCACCACGTCAAGGCTGACAA
GCGGGACCCAGAGTTTGTCTTCTACGACCAGCTGAAGCAAGTGATGAATGCGTACAGAGTCAAGCCGGCCGTCTT
TGACCTGCTCCTGGCTGTTGGCATTGCTGCCTACCTCGGCATGGCCTACGTGGCTGTCCAGCACTTCAGCCTCCT
CTACAAGACCGTCCAGAGGCTGCTCGTGAAGGCCAAGACACAGTGAACAGCCACCCCCACAGCCGGAGCCCCCG
CCGCTCCACAGTCCCTGGGGCCGAGCACGAGTGAGTGGACACTGCCCCGCCGCGGGCGGCCCTGCAGGGACAGGG
GCCCTCTCCCTCCCCGGCGGTGGTTGGAACTGAATTACAGAGCTTTTTTCTGTTGCTCAAAAAAAAAAAAAAA
AAA

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FIGURE 1375

MLKASCLPLGFIVFLPAVLLLVPPLPAADAAHEFTVYRMQQYDLQGQPYGTRNAVLNTEARTMAAEVLSRRCVL
MRLLDFSYEYQKALRQSAGAVVILPRMAAVPQDVVRQFMEIEPEMLAMETAVPVYFAVEDEALLSIYKQTQA
ASASQGSASAAEVLLRTATANGFQMTSGVQSKAVSDWLIASVEGRLTGLGGEDLPTIVIVAHYDAFGVAPWLSL
GADSNGSGVSVLLELARLFSRLYTYKRTHAAYNLLFFASGGGKFNYQGTKRWLEDNLDHTDSSLLQDNVAFVLCL
DTVGRGSSLHLHVSKPPREGTLQHAFLRELETVAAHQFPEVRF SMVHKRINLAEDVLAWEHERFAIRRLPAFTLS
HLESHRDGQRSSIMDVRSRVDSKTLTRNTRIIAEALTRVIYNLTEKGTTPDMPVFTEQMQUIQQEQLD SVMDWLTN
QPRAAQLVDKDDSTFLSTLEHHLSRYLKDVQHVKADKRDPEFVFYDQLKQVMNAYRVKPAVFDLLLA VGIAAYL
GMAYVAVQHFSLLYKTVQRLLVKAKTQ

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FIGURE 1376

CACACCCGCACTCCTCCCGGGTTTCTGCTCTCCGCCCCTGTGGAGTGGTGGGGGCTGGGTGGGAATGGGCGTGT
GCCAGCGCACGCGCGCTCCCTGGAAGGAGAAGTCTCAGCTAGAACGAGCGGCCCTAGGTTTTTCGGAAGGGAGGAT
CAGGGATGTTTTGCGAGCGGCTGGAACCAGACGGTGCCGATAGAGGAAGCGGGCTCCATGGCTGCCCTCCTGCTGC
TGCCCCTGCTGCTGTTGCTACCGCTGCTGCTGCTGAAGCTACACCTCTGGCCGCAGTTGCGCTGGCTTCCGGCGG
ACTTGGCCTTTGCGGTGCGAGCTCTGTGCTGCAAAAGGGCTCTTCGAGCTCGCGCCCTGGCCGCGGCTGCCGCCG
ACCCGGAAGGTCCCGAGGGGGGCTGCAGCCTGGCCTGGCGCCTCGCGGAACTGGCCAGCAGCGCGCCGCGCACA
CCTTTCTCATTACGGCTCGCGGCGCTTTAGCTACTCAGAGGCGGAGCGCGAGAGTAACAGGGCTGCACGCGCCT
TCCTACGTGCGCTAGGCTGGGACTGGGGACCCGACGGCGGCGACAGCGGCGAGGGGAGCGCTGGAGAAGGCGAGC
GGGCAGCGCCGGGAGCCGGAGATGCAGCGGCCGGAAGCGGCGCGGAGTTTGCCGGAGGGGACGGTGCCGCCAGAG
GTGGAGGAGCCGCCGCCCTCTGTACCTGGAGCAACTGTGGCGCTGCTCCTCCCCGCTGGCCAGAGTTTCTGT
GGCTCTGGTTTCGGGTGGCCAAGGCCGGCCTGCGCACTGCCTTTGTGCCACCGCCCTGCGCCGGGGCCCCCTGC
TGCACTGCCTCCGCACTGCGGCGCGCGCGCTGGTGCTGGCGCCAGAGTTTCTGGAGTCCCTGGAGCCGGACC
TGCCCCGCCCTGAGAGCCATGGGGCTCCACCTGTGGGCTGCAGGCCAGGAACCCACCCTGCTGGAATTAGCGATT
TGCTGGCTGAAGTGTCGCTGAAGTGGATGGGCCAGTGCCAGGATACCTCTCTTCCCCCAGAGCATAACAGACA
CGTGCTGTACATCTTACCTCTGGCACCACGGGCCTCCCCAAGGCTGCTCGGATCAGTCATCTGAAGATCCTGC
AATGCCAGGGCTTCTATCAGCTGTGTGGTGTCACCAGGAAGATGTGATCTACCTCGCCCTCCCACTCTACCACA
TGTCCGGTTCCCTGCTGGGCATCGTGGGCTGCATGGGCATTGGGGCCACAGTGGTGCTGAAATCCAAGTTCTCGG
CTGGTCAGTTCTGGGAAGATTGCCAGCAGCACAGGGTGACGGTGTTCCAGTACATTGGGGAGCTGTGCCGATACC
TTGTCAACCAGCCCCGAGCAAGGCAGAACGTGGCCATAAGGTCCGGCTGGCAGTGGGCAGCGGGCTGCGCCCAG
ATACCTGGGAGCGTTTTTGTGCGGCGCTTCGGGCCCCCTGCAGGTGCTGGAGACATATGGACTGACAGAGGGCAACG
TCTCCTTGATTGCTATGATGTCAACACAGGAGAGCCAATTCGGGACCCCCAGGGGCACTGTATGGCCACATCTC
CAGGTGAGCCAGGGCTGCTGGTGGCCCCGGTAAGCCAGCAGTCCCCATTCTGGGCTATGCTGGCGGGCCAGAGC
TGGCCCAGGGGAAGTTGCTAAAGGATGTCTTCCGGCCTGGGGATGTTTTCTTCAACACTGGGGACCTGCTGGTCT
GCGATGACCAAGGTTTTCTCCGCTTCCATGATCGTACTGGAGACACCTTCAGGTGGAAGGGGAGAATGTGGCCA
CAACCGAGGTGGCAGAGGTCTTCGAGGCCCTAGATTTCTTTCAGGAGGTGAACGTCTATGGAGTCACTGTGCCAG
GGCATGAAGGCAGGGCTGGAATGGCAGCCCTAGTTCTGCGTCCCCCCCCACGCTTTGGACCTTATGCAGCTCTACA
CCCACGTGTCTGAGAACTTGCCACCTTATGCCCGGCCCGGATTCTCAGGCTCCAGGAGTCTTTGGCCACCACAG
AGACCTTCAAACAGCAGAAAGTTTCGGATGGCAAATGAGGGCTTCGACCCAGCACCTGTCTGACCCACTGTACG
TTCTGGACCAGGCTGTAGGTGCCTACCTGCCCCCTCACAACCTGCCCGGTACAGCGCCCTCCTGGCAGGAAACCTTC
GAATCTGAGAACTTCCACACCTGAGGCACCTGAGAGAGGAACTCTGTGGGGTGGGGGCCGTTGCAGGTGTACTGG
GCTGTGAGGGATCTTTTCTATACCAGAACTGCGGTCACTATTTTGTAAATAAATGTGGCTGGAGCTGATCCAGCTG
TCTCTGACCTACAAAAAAAAAAAAAAAAAAAA

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FIGURE 1377

MGVCQRTRAPWKEKSQLERAAALGFRKGGSGMFASGWNQTVPIEEAGSMAALLLLPLLLLLPLLLLKLHLWLPQLRW
LPADLAFAVRALCCKRALRARALAAAAADPEGPEGGCSLAWRLAELAQQRAAHTFLIHGSRRFSYSEAERESNRA
ARAFRLALGWDWGPDDGDSGEGSAGEGERAAPGAGDAAAGSGAEFAGGDGAARGGGAAAPLSPGATVALLLPAGP
EFLWLWFGGLAKAGLRTAFVPTALRRGPLLHCLRSCGARALVLAPEFLESLEPDLPALRAMGLHLWAAGPGTHPAG
ISDLLAEVSAEVDGPVPGYLSSPQSITDTCLYIFTSGTTGLPKAARISHLKILQCQGFYQLCGVHQEDVIYLALP
LYHMSGSLLGIVGCMGIGATVVLKSKFSAGQFWEDCQQHRVTVFYIGELCRYLVNQPPSKAERGHKVRILAVGSG
LRPDTWERFVRRFGPLQVLETYGLTEGNVATINYTGORGAVGRASWLYKHIFPFSIRYDVTTGEPIRDPOGHCM
ATSPGEPGLLVAPVSQQSPFLGYAGGPELAQKGKLLKDVFRPGDVFFNTGDLLVCDDQGFLLRFHDTGDTFRWKGE
NVATTEVAEVFEALDFLQEVNVYGVTVPGHEGRAGMAALVLRPPHALDLMQLYTHVSENLPYARPRFLRLQESL
ATTETFKQKVRMANEGFDPSTLSDPLYVLDQAVGAYLPLTTARYSALLAGNLRI

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FIGURE 1378

AAAGAAAAATGCTCTGCATGGATTGGAGACACAGCAATAACTACTGTTGCCATGGAAGGGTTAACAGTGTAGGAG
CTGGTTTATCAGTCCGCTTTGACATACAGCTAAAGGAAATTTATGTTTGGGGGAAAAAGGCCCTCTGTTCACTTT
AAAATTCAGTGTGGACTTATGCCAAAGGGGGCTGTTTAAGTTGAAAGAAGCCAAGTTAAGTTTGGCCTCTTGCCT
GGAATCACTTGAATTCTGAAATTTCACTGCGACGGACATGTGCCTTGTACATTTTCCATTGCTTAATCCTGAAG
TTTGGTGCAAGTCTCTCTGCACCTATTAAAAAGTGATGTATATACTTCCTTCTTATTCTGTTGAGTTGTATAGAA
TTGTCTTTTGTATTTAACACTTTGTAATTTTCACAATATTTTTTAATTTAAATAAATAAACACATTTTTTCCCTC
CTGGGAAGTCATGAAAA

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FIGURE 1379

RKMLCMDWRHSNNYCCHGRVNSVGAGLSVRFDIQLKEIYVWGKKALCSL

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FIGURE 1380A

AGCGATCCGAGGCCCGGCCCGGCCCGGCCCGGCCCGGCCCGCTTGCCGCCGGGCTAGCAGTACAGCTGAGT
CTCTCGGCGGAGCTGCTGTGCACTGGAACGCGCTGGGCCCGGGCAGCGTCGCCTACGCGGAGCAGAGCTGAGC
TGAAGCGGGACCCGGAGCCCGAGCAGCCGCCCGCCCATGGCAATCAAATTTCTGGAAGTCATCAAGCCCTTCTGTGT
CATCTGCGGAAATTCAGAAGCCAGAGAGGAAGATTAGTTTAAAGGAGAAAGTGCTGTGGACCGCTATCACCCCT
CTTTATCTTCTTAGTGTGCTGCCAGATTCCCTGTTTGGGATCATGTCTTCAGATTAGCTGACCCCTTCTATTG
GATGAGAGTGATTCTAGCCTCTAACAGAGGCACATTGATGGAGCTAGGGATCTCTCCTATTGTACAGTCTGGCCT
TATAATGCAACTCTTGGCTGGCGCCAAGATAATTGAAGTTGGTGACACCCCAAAGACCGAGCTCTCTTCAACGG
AGCCCAAAGTTATTATTGGCATGATCATTACTATCGGCCAGTCTATCGTGTATGTGATGACCGGGATGTATGGGA
CCCTTCTGAAATGGGTGCTGGAATTTGCCTGCTAATCACCATTAGCTCTTTGTTGCTGGCTTAATTGTCCTACT
TTTGGATGAACTCCTGCAAAAAGGATATGGCCTTGGCTCTGGTATTTCTCTCTTCATTGCAACTAACATCTGTGA
AACCATCGTATGGAAGGCATTACGCCCCACTACTGTCAACACTGGCCGAGGAATGGAATTTGAAGGTGCTATCAT
CGCACTTTTCCATCTGCTGGCCACACGCACAGACAAGGTCCGAGCCCTTCGGGAGGCGTTCTACCGCCAGAATCT
TCCCAACCTCATGAATCTCATCGCCACCATCTTTGTCTTTGCAGTGGTCACTATTTCAGGGCTTCCGAGTGGA
CCTGCCAATCAAGTCGGCCCGCTACCGTGGCCAGTACAACACCTATCCCATCAAGCTCTTCTATACGTCCAACAT
CCCCATCATCCTGCAGTCTGCCCTGGTGTCCAACCTTTATGTCACTCTCCCAAATGCTCTCAGCTCGCTTCAGTGG
CAACTTGCTGGTCAGCCTGCTGGGCACCTGGTTCGGACACGTCTTCTGGGGGCCAGCACGTGCTTATCCAGTTGG
TGGCCTTTGCTATTACCTGTCCCTCCAGAATCTTTGGCTCCGTGTAGAAAGACCCGGTCCATGCAGTTGTATA
CATAGTGTTCATGCTGGGCTCCTGTGCATTCTTCTCCAAACGTGGATTGAGGTCTCAGGTTCCCTCTGCCAAAGA
TGTTGCAAAGCAGCTGAAGGAGCAGCAGATGGTGATGAGAGGCCACCGAGAGACCTCCATGGTCCATGAACTCAA
CCGGTACATCCCCACAGCCGCGGCCCTTTGGTGGGCTGTGCATCGGGGCCCTCTCGGTCTGGCTGACTTCTTAGG
CGCCATTGGGTCTGGAACCGGGATCCTGCTCGCAGTCACAATCATCTACCAGTACTTTGAGATCTTCGTTAAGGA
GCAAAGCGAGGTTGGCAGCATGGGGGCCCTGCTCTTCTGAGCCCGTCTCCCGGACAGGTTGAGGAAGCTGCTCCA
TTTTCGTATTCTTTCATTCCACTGTGTAAAGTGCTAGACATTTTCCAATTTAAAATTTTGCTTTTTATCCTGGCAC
TGGCAAAAAGAACTGTGAAAGTGAAATTTTATTAGCCGACTGCCAGAGAAGTGGAATGGTATAGGATTGTCCC
CAAGTGTCATGTAACTTTGTTTTAACTTTTGACCTTCTCAGTGCTGTATGCGGCTGCAGCCGTCTCACCTGT
TTCCCCACAAAGGGAATTTCTACTCTGGTTGGAAGCACAAACACTGAAATGTCTACGTTTCATTTTGGCAGTAG
GGTGTGAAGCTGGGAGCAGATCATGTATTTCCCGGAGACGTGGGACCTTGCTGGCATGTCTCCTTCACAATCAGG
CGTGGGAATATCTGGCTTAGGACTGTTTCTCTCTAAGACACCATTGTTTTCCCTTATTTTAAAAGTGATTTTTTT
AAGGACAGAACTTCTTCCAAAGAGAGGGATGGCTTTCCAGAAGACACTCCTGGCCATCTGTGGATTGTCTGT
GCACCTATTGGCTCTTCTAGCTGACTCTTCTGGTTGGGCTTAGAGTCTGCCTGTTTCTGCTAGCTCCGTGTTAG
TCCACTTGGGTCTATCAGCTCTGCCAAGCTGAGCCTGGCCAAGCTAGGTGGACAGACCCCTTGCAAGTGTATGCTG
TGTCAGATTCTGCCAGTCATCACTGGACACGTCTCCTCGCAGCTGCCCTAGCAAGGGGAGACATTGTGGTAGCT
ATCAGACATGGACAGAACTGACTTAGTGCTCACAAGCCCTACACCTTCTGGGCTGAAGATACCCAGCTGTGT
TCAGAAATTTCTTACTGTGCTTAGGACTGCACGCAAGTGAGCAGACACCACCGACTTCCCTTCTGCGTCACCAGT
GTCGTCAGCAGAGAGAGGACAGCACAGGCTCAAGGTTGGTAGTGAAGTCAGGTTTCGGGGTGCATGGGCTGTGGTG
GTGTTGATCAGTTGCTCCAGTGTTTGAAATAAGAAGACTCATGTTTATGTCTGGAATAAGTTCTGTTTGTGCTGA
CAGGTGGCCTAGGTCTGGAGATGAGCACCCCTCTCTTGGCCTTTAGGGAGTCCCCTCTTAGGACAGGCACTGCC
CAGCAGCAAGGGCAGCAGAGTTGGGTGCTAAGATCCTGAGGAGCTCGAGGTTTCGAGCTGGCTTTAGACATTGGT
GGGACCAAGGATGTTTTGCAGGATGCCCTGATCCTAAGAAGGGGGCCTGGGGGTGCGTGCAGCCTGTCGGGGAGA
CCCCACTCTGACAGTGGGCACACGGCAGCCTGCAAAGCACAGGGCCACCGCCACAGCCCGGCAGAGGGGCACACT
CTGGAGACCTTGCTGGCAGTGCTAGCCAGGAAACAGAGTGACCAAGGGACAAGAAGGGACTTGCTTAAAGCCACC
CAGCAACTCAGCAGCAGAACCAAGATGGGCCCCAGGCTCCTCCATATGGCCCAGGGCTTACCACCCTATCACAG
TGGCCTTGCTTAGACCCAGTCTGAGCAGGGGAGAGGCTCTTGAGACCTGATGCCCTCCTACCCACATGGTTCTC
CCACTGCCCTGTCTGCTCTGCTGCTACAGAGGGGCAGGGCCTCCCCAGCCACGCTTAGGAATGCTTGCTCTG
GCAGGCAGGCAGCTGTACCCAAGCTGGTGGGCAGGGGGCTGGAAGGCACCAGGCCTCAGGAGGAGCCCCATAGTC
CCGCTGCGACCTGTAACCATCGGCTGGGCCCTGCAAGGCCACACTCACGCCCTGTGGGTGATGGTCACGGTGG
GTGGGTGGGGGCTGACCCAGCTTCCAGGGGACTGTCACTGTGGACGCCAAATGGCATAACTGAGATAAGGTGA

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FIGURE 1380B

ATAAGTGACAAATAAGCCAGTTTTTTACAAGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1381

MAIKFLEVIKPFVCVILPEIQKPERKIQFKEKVLWTAITLFIFLVCCQIPLFGIMSSDSADPFYWMRVILASNRGT
LMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALENGAQKLFGMIITIGQSIVYVMTGMYGDPSEMGAGICLL
ITIQLFVAGLIVLLLDELLQKGYGLGSGISLFIATNICETIVWKAFSPTTVNTGRGMEFEGAIIALFHLLATRTD
KVRALREAFYRQNLPLNMNLIATIFVFAVVIYFQGFVRDLPIKSARYRGQYNTYPIKLFYTSNIP IILQSALVSN
LYVISQMLSARFSGNLLVSLLGTSWSDTSSGGPARAYPVGGLCYLSPPESEFGSVLEDPVHAVVYIVFMLGSCAFF
SKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYIPTAAAFGGLCIGALSVLADFLGAIGSGTGILLA
VTIIYQYFEIFVKEQSEVGSMGALLF

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FIGURE 1382

AGGGGGCGAAGGCGGCGGTGGTGAGGAAGATACTTTGGTTAGTGACCACATCGCAGCATGTTGAGTCAAGTTTAC
CGCTGTGGGTTCCAGCCCTTCAACCAACATCTTCTGCCCTGGGTCAAGTGTACAACCGTCTTCAGATCTCATTGT
ATCCAGCCTTCAGTCATCAGACATGTTCTGTTCTTGGAGCAACATCCCGTTTATCACTGTACCCCTCAGTCGTACA
CATGGAAAGTCCTTCGCCCACCGCAGTGAGCTGAAGCATGCCAAGAGAATCGTGGTGAAGCTCGGCAGTGCCGTG
GTGACCCGAGGGGATGAATGTGGCCTGGCCCTGGGGCGCTTGGCATCTATTGTTGAGCAGGTATCAGTGTGTCAG
AATCAGGGCAGAGAGATGATGCTGGTGACCAGTGGAGCCGTAGCCTTTGGCAAACAACGCTTGCGCCATGAGATC
CTTCTGTCTCAGAGCGTGCAGGAGGCCCTCCACTCGGGGAGAACAGCTGAAAGAAATGGCAATTCCAGTCTTA
GAGGCACGAGCCTGTGCAGCTGCCGGACAGAGTGGGCTGATGGCCTTGATGAGGCTATGTTTACCCAGTACAGC
ATCTGTGCTGCCAGATTTTGGTGACCAATTTGGATTTCCATGATGAGCAGAAGCGCCGGAACCTCAATGGAACA
CTTCATGAACCTCTTAGAATGAACATTGTCCCATTTGTCAACACAAATGATGCTGTTGTCCCCCAGCTGAGCCC
AACAGTGACCTGCAGGGGGTAAATGTTATTAGTGTTAAAGATAATGATAGCCTGGCTGCCCGACTGGCTGTGGAA
ATGAAACTGATCTCTTGATTGTTCTTTTCAGATGTAGAAGGCCTTTTGGACAGCCCCCAGGTTTCAGATGATGCA
AAGCTTATTGATATATTTTATCCCGAGATCAGCAGTCTGTGACATTTGGAACCAAGTCTAGAGTGGGAATGGGT
GGCATGGAAGCCAAGGTGAAAGCAGCCCTCTGGGCTTTGCAAGGTGGCACTTCTGTTGTTATTGCCAATGGAACC
CACCCAAAGGTGTCTGGGCACGTATCACAGACATTGTGGAGGGGAAGAAAGTTGGTACCTTCTTTTCAGAAGTA
AAGCCTGCAGGCCCTACTGTTGAGCAGCAGGGAGAAATGGCGGATCTGGAGGAAGGATGTTGGCCACCTTGGA
CCTGAGCAGAGAGCAGAAATTATCCATCATCTGGCTGATCTGTTGACGGACCAGCGTGATGAGATCCTGTTAGCC
AACAAAAAGACTTGGAGGAGGCAGAGGGGAGACTTGCAGCTCCTCTGCTGAAACGTTTTAAGCCTCTCCACATCC
AAATTGAACAGCCTGGCCATCGGTCTGCGACAGATCGCAGCCTCCTCCAGGACAGCGTGGGACGTGTTTTGCGC
CGCACCCGAATCGCCAAAAAAGTTGGAAGTGAACAAGTGACTGTCCCAATTGGAGTTCTGCTGGTGATCTTTGAA
TCTCGTCTGACTGTCTACCCCAAGGTGGCAGCTTTGGCTATCGCAAGTGGCAATGGCTTGTTACTCAAAGGAGGG
AAGGAGGCTGCACACAGCAACCGGATTCTCCACCTCCTGACCCAGGAGGCTCTCTCAATCCATGGAGTCAAGGAG
GCCGTGCAACTGGTGAATACCAGAGAAGAAGTTGAAGATCTTGGCGCTAGACAAAATGATAGATCTGATCATT
CCACGTGGCTCTTCCCAGCTGGTCAGAGACATCCAGAAAGCTGCTAAGGGGATTCCAGTGATGGGGCACAGCGAA
GGGATCTGTACATGTATGTGGATTCCGAGGCCAGTGTGATAAGGTACCAGGCTAGTCAGAGACTCTAAATGT
GAATATCCAGCTGCCTGTAATGCTTTGGAGACTTTGTTAATCCACCGGGATCTGCTCAGGACACCATTATTGAC
CAGATCATTGATATGCTGAGAGTGGAACAGGTAAAAATTCATGCAGGCCCCAAATTTGCCTCCTATCTGACCTTC
AGCCCCCTCCGAAGTGAAGTCACTCCGAAGTGAATGAGTATGGGGACCTGGAATTATGCATTGAAGTAGTGGACAACGTT
CAGGATGCCATTGACCACATCCACAAGTATGGCAGCTCCACACGGATGTATCGTCACAGAGGACGAAAACACA
GCGGAGTTCTTCTGTCAGCACGTAGACAGTGCCTGTGTGTTCTGGAATGCCAGCACTCGCTTTTCTGATGGTTAC
CGCTTTGGACTGGGAGCTGAAGTGGGAATCAGTACATCGAGAATCCACGCCCCGGGACCAGTAGGACTTGAGGGA
CTGCTTACTACTAAGTGGCTGCTGCGAGGGAAGGACCACGTGGTCTCAGATTTCTCAGAGCATGGAAGTTAAAA
TATCTTCATGAGAACCTCCCTATTCTCAGAGAAACACCAACTGAAAAAGAGCCAGGAAAACCCGGGAATTTTCCA
AAAGGTCTTCACGTTAACTTGTCTTATCTCAGGAGAGAGCCCCGCTCTTGTCTCCAGTTCCCTGGTAGGGTCTGC
CTGTTGGAAAGTGTACCTGGATGCTTCTGGGCTCCGTTTGGCAATAGCAATCTTGGCTGATGTGCACAGTCTGGC
TCCCAGCTCACCTTTTTTTTTTAAAGTAAGAAAATAGTTGCTACCGATAGGGACTTTGCCAAGTCCAATTATCTT
CTAGGATTGAAAGGTGCATTTTCCCATAAAAAAGGCGAGGAAAACCCATGGCTGCTTTGTGTACCTCAGTGAC
TTACAGTCCCCCTTCGCATTTAGTTGGTACTAGAGCCAGTCATCCTTAACAAATCTTTTCGCGTTTTATTTCTTT
CACATGTAGTCATCTTCAAAAAGGAAAGATTTGGAATTTTAGAAAAGGGGCAACTCTTCTTTTAGCATTCTCAT
CAGAAAGTCACAAAATCGATGGAATCATTTCCACTGGGAAGATTGACCTTTTGTATTTATTTGTGGGGTAAATT
AATAAGCATTCCAGATGCTTGCAGCTTCTGCATCCAGGAGATGCTGTGTCCCCGTGATGCAGCTGGAACCCAA
GCTGCAGCAGGAGATGCAAGTTTCAGGATGTTCCCACTGAGCTGGAGGAATATCTACAGCAGTGATGCTTGAAA
TTTTTGATGAATTATTTTGTGCTCCTACCTTTTCTCCAAAACAAAAATTAGAGGATTATTTTAATACTTTTG
ATTCTTCCCCCTTTTTTGGAAATAAAGTTTTTTATG

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FIGURE 1383

MLSQVYRCGFQPFNQHLLPWVKCTTVFRSHCIQPSVIRHVRWSNIPFITVPLSRTHGKSFAHRSELKHAKRIVV
KLGSVVTRGDECGLALGRLASIVEQVSVLQNGREMMLVTSGAVAFGKQRLRHEILLSQSVRQALHSGQNQLKE
MAIPVLEARACAAAGQSGLMALYEAMFTQYSICAAQILVTNLDFHDEQKRRNLNGTLHELLRMNIVPIVNTNDV
VPPAEPNSDLQGVNVISVKDNDSLAARLAVEMKTDLLIVLSDVEGLFDSPPGSDDAKLIDIFYPGDQQSVTFGTK
SRVGMGGMEAKVKAALWALQGGTSVVIANGTHPKVSGHVITDIVEGKKVGTFFSEVKPAGPTVEQQGEMARSGGR
MLATLEPEQRAEIIHHLADLLTDQRDEILLANKKDLEEAEGRLAAPLLKRLSLSTSKLNSLAIGLRQIAASSQDS
VGRVLRRTRIAKNLELEQVTVPIGVLLVIFESRPDCLPQVAALAIASGNGLLLKGGKEAAHSNRILHLLTQEALS
IHGVKEAVQLVNTREEVEDLCRLDKMIDLIIPRGSSQLVRDIQKAAKGIPVMGHSEGICHMYVDSEASVDKVT
VRDSKCEYPACNALETLLIHRDLLRTPLFDQIIDMLRVEQVKIHAGPKFASYLTFSPSEVKSLRTEYGDLELCI
EVVDNVQDAIDHIHKYGSSTDVIVTEDENTAEFFLQHVDSACVFWNASTRFSDGYRFGGLGAEVGISTSRIHARG
PVGLEGLLTWKWLLRGKDHVVSDFSEHGSLKYLHENLPIQRNTN

[illegible]

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FIGURE 1385

MAAVPELLQQQEEDRSKLRSVSVDLNVDPSSLQIDIPDALSERDKVKFTVHTKTTLPTFQSPEFSVTRQHEDFVWL
HDTLIETTDYAGLIIPPAPTKPDFDGPREKMQKLGEGECSMTKEEFAKMKQELEAEYLAVFKKTVSSHEVFLQRL
SSHPVLSKDRNFHFVLEYDQDLSVRRKNTKEMFGGFFKSVVKSADDEVLTGVKEVDDFFEQEKNFLINYNNRIKD
SCVKADKMTRSHKNVADDYIHTAACLHSLALEEPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRYML
NIEAAKDLLYRRTKALIDYENSNAKLDKARLKS KDVKLAEAHQECCQKFEQLSESAKEELINFKRKRVAEFRKN
LIEMSELEIKHARNNVSLQSCIDLFKNN

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FIGURE 1386

GCCGCGCGCTGTGTCTCCGCTGCGTCCGCCGAGGCCCCCGAGTGTGAGGGACAAAAGCCTCCGCCTGCTCCCGCA
GCCGGGGCTCATCTGCCGCCGCCGCCGCGCTGAGGAGAGTTCGCCGCCGTCGCCGCCCGTGAGGATCTGAGAGCC
ATGTGCGCCAGCAGCCTCTTGAGCAGAGACCAAAAGGTCAAGGAAACAAAGTACAAAATGGATCTGTACATCAA
AAGGATGGATTAAACGATGATGATTTTGAACCTTACTTGAGTCCACAGGCAAGGCCCAATAATGCATATACTGCC
ATGTCAGATTCCCTACTTACCCAGTTACTACAGTCCCTCCATTGGCTTCTCCTATTCTTTGGGTGAAGCTGCTTGG
TCTACGGGGGGTGACACAGCCATGCCCTACTTAACTTCTTATGGACAGCTGAGCAACGGAGAGCCCCACTTCCTA
CCAGATGCAATGTTTGGGCAACCAGGAGCCCTAGGTAGCACTCCATTTCTTGGTCAGCATGGTTTTAATTCTTT
CCCAGTGGGATTGACTTCTCAGCATGGGGAAATAACAGTTCTCAGGGACAGTCTACTCAGAGCTCTGGATATAGT
AGCAATTATGCTTATGCACCTAGCTCCTTAGGTGGAGCCATGATTGATGGACAGTCAGCTTTTGCCAATGAGACC
CTCAATAAGGCTCCTGGCATGAATACTATAGACCAAGGGATGGCAGCACTGAAGTTGGGTAGCACAGAAGTTGCA
AGCAATGTTCCAAAAGTTGTAGGTTCTGCTGTTGGTAGCGGTCCATTACTAGTAACATCGTGGCTTCCAATAGT
TTGCCCTCCAGCCACCATTGCTCCTCCAAAACCAGCATCTTGGGCTGATATTGCTAGCAAGCCTGCAAAACAGCAA
CCTAAACTGAAGACCAAGAATGGCATTGCAGGGTCAAGTCTTCCGCCACCCCCGATAAAGCATAACATGGATATT
GGAACCTGGGATAACAAGGGTCCCGTTGCAAAAGCCCCCTCACAGGCTTTGGTTCAGAATATAGGTGAGCCAACC
CAGGGGTCTCCTCAGCCTGTAGGTGAGCAGGCTAACAAATAGCCCCAGTGGCTCAGGCATCAGTAGGGCAACAG
ACACAGCCATTGCCTCCACCTCCACCACAGCCTGCCAGCTTTCAGTCCAGCAACAGGCAGCTCAGCCAACCCGC
TGGGTAGCACCTCGGAACCGTGGCAGTGGGTTCGGTCATAATGGGGTGGATGGTAATGGAGTAGGACAGTCTCAG
GCTGGTTCTGGATCTACTCCTTCAGAACCCACCCAGTGTGGAGAAGCTTCGGTCCATTAATAACTATAACCCC
AAAGATTTTGACTGGAATCTGAAACATGGCCGGGTTTTCATCATTAAGAGCTACTCTGAGGACGATATTCACCGT
TCCATTAAGTATAATATTTGGTGCAGCACAGAGCATGGTAACAAGAGACTGGATGCTGCTTATCGTTCCATGAAC
GGGAAAGGCCCGTTTTACTTACTTTTTAGTGTCAACGGCAGTGGACACTTCTGTGGCGTGGCAGAAATGAAATCT
GCTGTGGACTACAACACATGTGCAGGTGTGTGGTCCAGGACAAATGGAAGGGTCTTTTTGATGTGAGGTGGATT
TTTGTGAAGGACGTTCCCAATAGCCAACTGCGACACATTCGCCTAGAGAACAAACGAGAATAAACAGTGACCAAC
TCTAGGGACACTCAGGAAGTGCCTCTGGAAAAGGCTAAGCAGGTGTTGAAAATTATAGCCAGCTACAAGCACACC
ACTTCCATTTTTTGATGACTTCTCACACTATGAGAAACGCCAAAGAGGAAGAAGAAAGTGTTAAAAAGGAACGTCA
AGGTCTGTGGGAAATAAAAGGCAGTTCTACACAGACTGCAGCAACGGTTGCATCTGCATATCCTAAGAGGAAAAA
TGACCTTCAAGAGAATTAGGACTTTTTTCTTAATTTCACTGACTTCAGAGACGATTGCAGACTTGCAGTTTAAGT
ATTGGAATTTACAAAAGACATAGGACTTAACTGGAATGAAAAGAAAAGAAAAAGAAAAAACTAAACAAAAA
TCCCTCTAGGTAGTTTAGGTGAAAAATGTCCTTTTTATTTTGGCTTTGGTTGTGATTCAGAGCATAATGCTATG
TTTTTTGTCTTTTACTATGTTTTTCGGATTTTTAAGTCCGTAAGTGCATACAGTTTTCTCTAATTTTTAAACCC
TTTCTCCTCCCATTTGGACATTTGCACTTGGAGAACACTTGAGTTGTGAAGGTTTTGGGCATCCACCCAGAAA
GTGGGAATTTGATTTTATCCTTCCGAACCTGGAAGAACATTTTTATGAAGAATTTTTGTCTAGGAGAATATAACAG
TGTTACCCAAGGTTGTGTCTTTAAGGGTGGTTTCAATTTCTCTGACCTTTTGTTACTCAAAGTAAAGTACTAGGAG
TCCTAAGAAATGTTCTGTTCTTGTACATTATACTGATTAAAGTCAGGATTAATTTGATTTCAAAGCTGAGAACAGT
GGTAAAACTCGTTTACAGAAATGCATTTTGAAGAGAAAAATACTGTAAACGTGTCGTGAATGTTTCTTCAGT
TTCTTGTTGAGCCAATGAGGAAAGGGCATTGCCTTTCTTTTTACCATTAATCACTTCTCAATAAACGTGAGATCC
TGTTGAGCATCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1387

MSASSLLEQRPKGQGNKVQNGSVHQDGLNDDDFEPYLSFQARPNNAYTAMSDSYLPSYSPSIGFSYSLGEAAW
STGGDTAMPYLTSYGQLSNGEPHFLPDAMFGQPGALGSTPFLGQHGFNFFPSGIDFSAWGNSSQGGSTQSSGYS
SNYAYAPSSLGGAMIDGQSAFANETLNKAPGMNTIDQGMAALKLGSTEVASNVPKVVGSAGVSGSITSNIVASNS
LPPATIAPPKPASWADIASKPAKQQPKLKTNGIAGSSLPPPPIKHNMDIGTWDNKGVPVAKAPSQALVQNIQOPT
QGSPQPVGQQANNSPPVAQASVGQQTQPLPPPPPQPAQLSVQQQAAQPTRWVAPRNRGSGFGHNGVDGNGVGQSQ
AGSGSTPSEPHPVLEKLRSINNYNPKDFDWNLKHGRVFIKSYSEDDIHRSIKYNIWCSTEHGKRLDAAYRSMN
GKGPVYLLFSVNGSGHFCGVAEMKSAVDYNTCAGVWSQDKWKGRFDVRWIFVKDVPNSQLRHIRLENNENKPVTN
SRDTQEVPLEKAKQVLKIIASYKHTTSIFDDFSHYEKRQRGRKC

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FIGURE 1388

GTGAAGAGAGGCGCGGCGTGAAGCTACGGTCTGGCTGCGTCTAGAGGCATCCGGGGCAGTAAAAACCGCTG
CGATCGCGGAGGCGGCGGCCAGGCCGAGAGGCAGGCCGGGCAGGGGTGTCGGACGCAGGGCGCTGGGCCGGGTTT
CGGCTTCGGCCACAGCTTTTTTCTCAAGGTGCAATGAAGCCTTCCACACTTTCTGTGTGTCTCTCTGGTGT
TGGGAGTGTCTCTGAAGCCAGTTTGATGATTTTGAGGATGAGGAGGACATAGTAGAGTATGATGATAATGACTT
CGCTGAATTTGAGGATGTCATGGAAGACTCTGTTACTGAATCTCCTCAACGGGTCATAACTACTGAAGATGATGA
AGATGAGACCACTGTGGAGTTGGAAGGGCAGGATGAAAACCAAGAAGGAGATTTTGAAGATGCAGATACCCAGGA
GGGAGATACTGAGAGTGAACCATATGATGATGAAGAATTTGAAGGTTATGAAGACAAACCAGATACTTCTTCTAG
CAAAAATAAAGACCCAATAACGATTGTTGATGTTCTGACACCTCCAGAACAGCTGGGAGAGTTATTATCTAGA
AATTTTGATGGTGACTGGTCTGCTTATATCATGAATTACATCATTGGGAAGAATAAAAACAGTCGCCTTGC
ACAGGCCTGGTTTAACTCATAGGGAGCTTTTGAGAGCAACTTTACTTTAGTGGGGGATGATGGAACATAACA
AGAAGCCACAAGCACAGGAAAGTTGAACCAGGAGAATGAGCACATCTATAACCTGTGGTGTCTGGTCGAGTGTG
CTGTGAGGGCATGCTTATCCAGCTGAGGTTCTCAAGAGACAAGACTTACTGAATGTCCTGGCCCGGATGATGAG
GCCAGTGAGTGATCAAGTGCAAATAAAAGTAACCATGAATGATGAAGACATGGATACCTACGTATTTGCTGTTGG
CACACGGAAAGCCTTGGTGCGACTACAGAAAGAGATGCAGGATTTGAGTGAGTTTTGTAGTGATAAACCTAAGTC
TGGAGCAAAGTATGGACTGCCGGACTCTTTGGCCATCCTGTCAGAGATGGGAGAAGTCACAGACGGAATGATGGA
TACAAAGATGGTTCACCTTTCTTACACACTATGCTGACAAGATTGAATCTGTTTCACTTTTTCAGACCAGTTCTCTGG
TCCAAAATTATGCAAGAGGAAGGTCAGCCTTTAAAGCTACCTGACACTAAGAGGACACTGTTGTTTACATTTAA
TGTGCTTGGCTCAGGTAACACTTACCCAAAGGATATGGAGGCACGTCTACCCCTGATGAACATGGTGATTTATTC
TATTGATAAAGCCAAAAAGTTCCGACTCAACAGAGAAGGCCAAACAAAAGCAGATAAGAACCGTGCCCGAGTAGA
AGAGAAGGAGCGAATCATGAATGAGGAAGATCCTGAGAAACAGCGCAGGCTGGAGGAGGCTGCATTGAGGCGTGC
AAAAAGAAGTTGGAAGAAGCAAAATGAAATGAAACAAATCAAAGTGAAAGCCATGTAAAGCCATCCCAGAGA
TTTGAGTTCTGATGCCACCTGTAAGCTCTGAATTCACAGGAAACATGAAAAACGCCAGTCCATTTCTCAACCTTA
AATTTTACAGACAGTCTTGGGCAACTGAGAAATCCTTATTTTATCATCTACTCTGTTTGGGGTTTGGGGTTTTACAG
AGATTGAAGATACCTGGAAAGGGCTCTGTTTCAAGAATTTTTTTTTTCCAGATAATCAAATATTTTGATTATTTT
ATAAAAGGAATGATCTATGAAATCTGTGTAGGTTTTAAATATTTTAAAAATTATAATACAAATCATCAGTGCTTT
TAGTACTTCAGTGTTTAAAGAAATACCATGAAATTTATAGGTAGATAACCAGATTGTTGCTTTTTGTTTAAACCA
AGCAGTTGAAATGGCTATAAAGACTGACTCTAAACCAAGATTCTGCAATAATGATTGGAATTGCACAATAAACA
TTGCTTGATGTTTTCTTGTATGTCTACATTAACTTGAGAAAAAGTAAAAATTAGAACACTGTATGTAGTAATGA
AATTTACAGGGACCCAGAACATAATGTAGTATATGTTTTTAGGTGGGAGATGCTGATAACAAATTAATAGGAAGT
CTGTAGGCATTAGGATACTGACATGTACATGGAAAATTTAGGGACAGGAGCATCATTTTTTCTTACCTGATAC
CACGAACCAGTGACAACGTGAATGCTGTATTTTAAAGTGGTGTATGTTTATTTTCTTGAGTAACAAATGCATGAA
AAATTAATGCTTCACCTAGGTAAGATCATTGGTCTGTGTGAAATCACAAATGTTTTTCTTCTTGGTTGCTGCA
GCCTGGGTGGATGTTTATGGAGAAGCTCTGTTCTCTATATTATGGCTGTGTGCCGTTGCTTCTCCCTCTGCTTTT
ATCTTTTCCACAGTTGAGGCTGGGTATGTTCTTTCAAAGAAATGGCCATGAATATGTGTAAGTATACTTTTGAAA
ATGAGCTTTCTTAACTATTGAGAGTTCTTTCCACCTCTTGCGGAACCACTCTTGGAGGAGAGGCCCATGTATC
TGCACGAGCACTTAGCTTGTTCAGATCTCTGCATTTTATAAATGCTTCTTACCAAGAAAGCATTTTTTAGGTCAAT
GCTTGTACCAGGTAATTTTTGCGGGGATGGGTAAGGGTTGGGTTTTCTGGTGGGAGTGGGGTGGTGGGTATTTT
TTGTTGATGCTTTAGTGACGGCCTGTTCTGAGGCAATAACAAGTTGCTGTGAAAACAGCATGTGCTGCTGCCTTT
GTAAGTGCATGAAACTTTTACATGGGTTTTTCTCAAGTTAATACAGAAATATGTAACTGAGAGATGCAAAAT
GTAATATTTTAAACAGTTTATGAAGTTGTTATTAATAACTAACATAAACTTAATTACTTTAATATTATATAA
TTATAGTAGTGGCCTTGTTTTACAAACCTTTAAATTACATTTTAGAAATCAAAGTTGATAGTCTTAGTTATCTTT
TGAGTAAGAAAAGCTTTCTTAAAGTCCCATACATTTGGACCATGGCAGCTAATTTTGTAAGTTAAGCATTCATAT
GAACTACCTATGGACATCTATTAAAGTGATTGACAAATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1389

MKAFHTFCVLLVFGSVSEAKFDDFEDEEDIVEYDDNDFAEFEDVMEDSVTESPQRVIITEDDEDETTVELEGQD
ENQEGDFEDADTQEGDTESEFYDDEEFEGYEDKPD TSSSKNKDPITIVDVP AHLQNSWESYYLEILMVTGLLAYI
MNYIIIGKNKNSRLAQAWFNTHRELLESNFTLVGDDGTNKEATSTGKLNQENEHIYNLWC SGRVCCEGMLIQLRFL
KRQDLLNLV LARMMRPVSDQVQIKVTMND EMDTYVFAVGTRKALVRLQKEMQDLSEFCSDKPKSGAKYGLPDSL A
ILSEMGEVTDGMMDTKMVHFLTHYADKIESVHFSDQFSGPKIMQEEGQPLKLPDTKRTL LFTFNVP GSGNTYPKD
MEALLPLMNMVIYSIDKAKKFRLNREGKQKADKNRARVEENFLKLTHVQRQEAAQSRREEKKRAEKERIMNEEDP
EKQRLEEAAALRRAKKKLEKKQMKMKQIKVKAM

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FIGURE 1390A

GGCACGAGCGAGGTTTCGGGCTGGTTGTTCCGTTGCGAGCTGCAGCTGCGATCTCTGTGGTAGGCCAGAAGTGTA
TCTGACTTGTAAAGTGAAGAAGCCAGTGGTGCTGCGGGTGTCTTTTGGGGTAGTGTCTGGGATCCAGTACGAG
TTGAATCATTGTTCAAATAAGGTGTAATTGAAAAGTGATCCTCTCTTCAGAGATGTCAAAAACAAACAATCCAA
GTCTGGATCTCGCTCTTCTCGCTCAAGATCTGCATCAAGATCTCGTTCTCGTTCATTTTCGAAGTCTCGGTCCCG
GATCTCTCTCTCGTTCAAGGAAGCGCAGGCTGAGTTCTAGGTCTCGTTCAGATCATATTCTCCAGCTCA
AGAGAAAGAAACCACCCAAGAGTATATCAGAATCGGGATTTCAGGTCACAACAGAGGCTATAGAAGGCC
TATTTCGTTGGGCGTAACAGAGGCTTTTATCCATGGGGCCAATATAACCGAGGAGGCTATGGAACTACCG
TCAAATTGGCAGAATTACCGCAAGCATACAGTCTCTCGTCGAGGCCGTTCAAGATCCCGGTCCCCAAAGAGAAG
CCCTTCACCAAGGTCCAGGAGCCATTCTAGAACTCTGATAAGTCGTCTTCTGACCGGTCAAGGCGCTCCTC
TCCCGTTCTTCTCCAACCATAGCCGAGTTGAATCTTCTAAGCGCAAGTCTGCAAAGGAGAAAAAGTCTCTC
AAGGATAGCCGGCCATCTCAGGCTGCCGGGGATAACCAGGGAGATGAGGTCAAGGAGCAGACATTCTCTGG
ACCTCTCAAGATACAAAAGCATCTGAGAGCTCGAAGCCATGGCCAGATGCCACCTACGGCACTGGTTCTGC
ACGGGCTCAGCAGTTTCTGAGCTGAGTCTCGGGAGCGAAGCCAGCTCTCAAAGCCCCCTCCAGTCTGT
GGGTGAGGCGGCGGTACCCCCGTCTAGCCCCGTGCCAAAACCTAGTCTCCACTTTCCAGCACATCCCAGAT
GGGCTCAACTCTGCCGAGTGGTGCCGGGTATCAGTCTGGGACACACCAAGGTCAAGTTCGACCATGGTTCTGGGT
CTGAGTCCATCCAAAAGAGCCCTGTGGGTAAAGATCCACCATCCACTGGCTCCACATATGGCTCATCTCAGAA
GGAGGAGAGTGCTGCTTCAGGAGGAGCAGCCTATACAAAGAGGTATCTAGAAGAGCAGAAGACAGAATGGAAA
AGATAAGGAACAGAAAACAAACAATACCGATAAAGAAAAATAAAGAGAAAAGGGAGCTTCTCTGACACAGGCTT
GGGTGATGGAAAAATGAAATCTGATTCTTTTGCTCCAAAACCTGATTCTGAGAAGCCTTTTCGGGGCAGTCAGTC
TCCAAAAGGTATAAGCTCCGAGATGACTTTGAGAAGAAGATGGCTGACTTCCACAAGGAGGAGATGGATGATCA
AGATAAGGACAAAAGCTAAGGGAAGAAAGGAATCTGAGTTTGATGATGAACCCAAATTTATGTCTAAAGTCATAGG
TGCAACAAAAACCAGGAGGAGGAGAAGTCAGGCAATGGGAGGGCCTGGTATATGCACCTCCAGGGAAGGAAAA
GCAGAGAAAAACAGAGGAGCTGGAGGAGGAGTCTTTCCAGAGAGATCCAAAAGGAAGATCGGGGCAAGAGAAG
CGAAGGTGGGCACAGGGGCTTTGTGCTGAGAAGAATTTCCGAGTGACTGCTTATAAAGCAGTCCAGGAGAAAAG
CTCATCACCTCCCCAAGAAAGACCTCTGAGAGCCGAGACAAGCTGGGAGCGAAAGGAGATTTTCCACAGGAAA
GTCTTCCTTTTCCATTACTCGAGAGGCACAGGTCAATGTCCGGATGGACTCTTTTGATGAGGACCTCGCACGACC
CAGTGGCTTATTGGCTCAGGAACGCAAGCTTTGCCGAGATCTAGTCCATAGCAACAAAAGGAACAGGAGTTTCG
TTCCATTTTCCAGCACATACAATCAGCTCAGTCTCAGCGTAGCCCCCTCAGAACTGTTTGCCCAACATATAGTGAC
CATTGTTACCATTGTTAAAGAGCATCACTTTGGGTCTCAGGAATGACATTACATGAACGCTTTACTAAATACCT
AAAGAGAGGAAGTGAAGCAGGAGGCAGCCAAAAACAAGAAAAGCCCAGAGATACACAGGAGAATAGACATTTCCCC
CAGTACATTACAGAAAACATGGTTTGGCTCATGATGAAATGAAAAGTCCCCGGGAACCTGGCTACAAGGCTGAGGG
AAAATACAAAGATGATCCTGTTGATCTCCGCCTTGATATTGAACGTCTGTAACCAATAAGGAGAGAGATCTTAA
ACGAGGTAAATCGAGAGAATCAGTGGATTCCCGAGACTCCAGTCACTCAAGGGAAAGGTCAAGTGAACCAACAGA
GAAACTCATAAAGGATCAAAGAAACAGAAGAAGCATCGGAGAGCAAGAGACAGGTCCAGATCCTCCTCTCTTC
CTCCAGTCACTCTCACTCTACAAAGCAGAAGAGTACACTGAAGAGACAGAGGAAAGAGAGGAGAGCACCACGGG
CTTTGACAAATCAAGACTGGGGACCAAAGACTTTGTGGGTCCAAGTGAAAGAGGAGGTGGCAGAGCTCGAGGAAC
CTTTCAGTTTCGAGCCAGAGGAAGAGGCTGGGGCAGAGGCAACTACTCTGGGAACAATAACAACAACAGCAACAA
CGATTTTCAAAAAGAAACCGGGAAGAGGAGTGGGACCCAGAGTACACACCCAAAAGCAAGAAGTATTACTTGCA
TGATGACCGTGAAGGCGAAGGCAGTGACAAGTGGGTGAGCCGGGGCCGGGGCCGAGGAGCCTTTCTCGGGGTCTG
GGGCCGGTTTCATGTTCCGGAATCAAGTACCAGCCCCAAGTGGGCCCATGACAAGTTCAAGTGGGGAGGAAGGGGA
GATTGAAGACGACGAGAGTGGGACAGAGAACCAGAGAAGAGAAGGACAATATACAGCCCACAACCGAGTAGGGGCC
ACCCTTGACGGGATTCTGCCCCAGGGGAGAGAGGCGCTGGGAAGATGGCTGGTGAGGAGCTTAACAGAGGAACCT
CAAGAAGATTCTGAAAATCCTACCCCCACCCCCACCAGCCGCACAGATTGTACTACCGCGAGAGGCATCCCTGG
CGCTGTCTCCCACTGGACAGAGGAGGCTGGCCATGGGGCCAGGGGTCAAGGCCAGCTTTTGAGCAGAATACAAC
GCATTGGGCTTTAGCTGTTTTTCTCAATTTGTTGGTGTGTGGGGTGGGGCAGGGGTAGGGCGGGAGAGCGATGCT
TGGATTTTTGTTTCTATTAGAAACCAACAGTTTTGTTCTAATTTCAATTTCAATTTGGAGCTAAGATGACTAATTT
GATGATTTTCGATCTTTTTCCCTGTCTGATTTTTAAAGCCCCCTCTTTTTTTTTTTTTTTTTTTTTTTTTTTT
AGGCATATGTAGTAATATTAGAAACATTTAATTTGGGAACTTTGATTCTTGAAAGAGAAAACAAAGCATGTGA

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FIGURE 1390B

ATAAACTTTGCTCGTGCC

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FIGURE 1391

MSKTNKSKSGSRSSRSASRSRSRFSKSRSRSRSLSRSRKRLSSRSRSRSPAHNRERNHPRVYQNRDFRG
HNRGYRRPYFRGRNRGFYPWGQYNRGGYGNYSRNSWQNYRQAYSPRRGRSRSRSPKRRSPSPRSRSHSRNSDKSS
SDRSRRSSSSSRSSSNHSRVESKSRKSAKEKSSSKDSRPSQAAGDNQGDEVKEQTFSGGTSQDTKASESSKPWPD
ATYGTGSASRASAVSELSPRERSPALKSPLOSVVRRRSPRSPVPKPSPLSSTSQMGSTLP SGAGYQSGTHQG
QFDHSGSGLSPSKKSPVGKSPSTGSTYGSSQKEESAASGGAAYTKRYLEEQTENGKDKEQQTNTDKEKIKEK
GSFSDTGLGDGKMKSDSFAPKTDSEKPFGRSQSPKRYKLRRDDFEKKMADFHKEEMDDQDKAKGRKESEFDDEP
KFMSKVI GANKNQEEKSGKWEGLVYAPPGKEKQKTEELEEEESFPERSKKEDRGKRSEGGHGRGFVPEKNFRVTA
YKAVQEKSSSPPPRKTSES RDKLGAKGDFPTGKSSFSITREAQVNVRMDSFDEDLARPSGLLAQERKLCRDLVHS
NKKEQEFRSIFQHIQSAQSQRSPSELF AQHIVTIVHHVKEHHFGSSGMTLHERFTKYLRGTEQEAAKNKKSPEI
HRRIDISPSTFRKHGLAHDEMKS PREPGYKAEGKYKDDPVDLRDLIERKKHKERDLKRGKSRESVDSRDSSHRSR
ERSAEKTEKTHKGSKKQKKHRRARDRSRSSSSSSQSSHSYKAEYETEEREESTTGFDKSRLGTDKDFVGP SER
GGGRARGTFQFRARGRGWGRGNYS GNNNNNSNND FQKR NREEEWDPEYTPKSKYYLHDDREGE GSDKWVSRGRG
RGAFPRGRGRFMFRKSSTSPKWAHDKFSGEEGEIEDDES GTE NREEKDNIQPTTE

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FIGURE 1392

CTGGGGGCGGGGCAGGGGCAGGTGTAGCCTCTGTGCCCTCGTTGTCCCCTGGCGCTACCCGGACATCTCTCAGGGT
GCCGGCACCATGAAGATCTGGACTTCGGAGCACGTCTTTGACCACCCGTGGGAAACTGTTACAACAGCTGCAATG
CAGAAATACCCAAACCCTATGAACCCAAGTGTGGTTGGAGTTGATGTGTTGGACAGACATATAGATCCCTCTGGA
AAGTTGCACAGCCACAGACTTCTCAGCACAGAGTGGGGACTGCCTTCCATTGTGAAGTCTCTTATTGGTGCAGCA
AGAACGAAAACATATGTGCAAGAACATTCTGTAGTTGATCCTGTAGAGAAAACAATGGAACCTAAATCTACTAAT
ATTTTCATTTACAAACATGGTTTCAGTAGATGAGAGACTTATATACAAACCACATCCTCAGGATCCAGAAAAA
GTTTTGACACAAGAAGCCATAATTACCGTGAAAGGAGTTAGCCTCAGCAGTTACCTTGAAGGACTGATGGCAAGT
ACGATATCCTCAAATGCTAGTAAAGGCCGAGAAGCAATGGAATGGGTAATACATAAAATTAAATGCTGAGATTGAA
GAACTGACAGCCTCAGCAAGAGGAACCATAAGGACTCCAATGGCAGCAGCAGCGTTTTGCAGAGAAGTGATCGTG
ACAGTTGGTAGACAACATCGGGTACTCCAGGTCTCTCCAAACTTGACTATATATTTATTTGTTATTTTAAAAATAC
AACTATATTTTGGGTAGTTTTTTTTTTTTTTTTTTTGATAAGTTGGTGTAAGGCTATGTGACTTGATCAAAACA
GATGCAGGGCCTCTAAATAAAAGGGATCATCTGAAATTAATGTTGTTTGAAATTACTATCTGATTTTGAGGGTTC
CAGTATTTCTGTGAAAATTCAACAAGAACTCCTTGGAAGCTGGTATTGATATTCAGTCTCCTTAAGGTAGATTTT
TCAAGCTTTTCATACATTGGAACCTCACCTGACTTTGGACCAACCCGAGAACAGAGCAGAGCCACCTCCTATAGA
CGCCCATTGCCCTGCTGCTGTACACTTCAGCAGCTTGCACAAGGGAGCTCACTTAAAAGGAGAAATTGTGTAGTT
TAAAAATATATTTTGTGTAAATACCTTACTATGCTATAAACCACCATTAAAAACCAGTGTTTTGATTTGGTACT
TAAATATTTTTGGAGTGAAAATTATCACTAAAGTAACATGACTCCAACAAAAGTATGGTTTCATTATAAAAGAGT
ACTGTATTGATTTGCCCAAGTTTTGTAACCTTAGTAAAGGTATTAACCTTCCTTGGATTTGTACTTTGTGATTTAGT
ATGCTGTATCGTGGGCTGGTTATGTTAACTGAAAAAATAAAGTCATTACCTGAGTTTTGCAGTGCTCTAACTTA
AACAGAAGAACAGCTGTTACATCTTTTAGCATTTTACATTTGCCTAACTTAAAAATTGCCATGTGTCAAAATCA
TGGTTTTGTAATTGCTAAGGCATGATATGTCAGGTTATTTGAATATAATTACTTTTTGAAGTAATTGTGACCACA
AAACATCTTTTTTACATGAAGGAGCTGTGTATCATTGAAATTACTCAAATGATGTCTTGCTCTGAGGCATAAAT
CCCAGGTACTTAGTGTTTTTAATAATATGGTGCCACTGCAGGATTTGGGGGCGGTGGGGAAGAACAAGCATAATG
GTAGGGGGAGGCTTGGCCTGAAACTAACCCTGAGTGAATTGCACTGCAGGTTTTACTTAACGGGAATTCCTTAT
TTGGGATGTCAAGAGGGCAGCTGCAAACCTGAAAAACAATCCAGTAAATGTACTTTGTTTTATGTATTGTAGCAGG
CAATTAACCTACTAAATAATAGCTTTGACATTTGCAATTGTTGCATAGAGACTATTTTGCTAGAAGATGATTAGC
TCTTGCCCTTTATTTTACAGTGCTTAGTGTGATAAAGTTCTAGTCATGTTTCCTATCCAAGAGACCAGTTAATATA
TGTACATAAACCACAGAAATAGTATAACACACTATTTTTAAATTATCGTTTTCTACTTAAATTTTGTTTAGCTT
AAGACTTCTTAGGACATTTGTAAAAGCAGGTTAAATTTAATAAGGTTTCTGATTTTTTTTTGTAAACGGAGATAG
TTTTTACAAGTGAAATAACATTTAGCTAAATAAAACATCGCTAAATAATTGATATTTGATGAAAATCTGCTTTG
TATAATTTCTGTAAATTATCCTTGTTCTGAAAAAGGTGTAATGCCCTAATTTTTTAAATCCTTATCCTTTGATT
TTTTAAAACTGACCTATTGATAAACTATAAATTTTCATTTTCCAGTGCAGTTAGTTACCTTTTTTAAACATAAA
TGCACAACAAGCAAATGAATTTAAGAGAACTAACTGGAATAAGTGTTTCATAAATGAAACCCTTGGAATTTTAA
TAAAGTTGAAATGTGAATTAAGGAAAACTTTTGTTAATAAAAACTTTCTTTTAAAAAAA

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FIGURE 1393

MKIWTSEHVFDHPWETVTTAAMQKYPNPMNPSVVGVDVLD RHIDPSGKLHSHRLLSTEWGLPSIVKSLIGAARTK
TYVQEHSVVDPVEKTMELKSTNISFTNMVSVDERLIYKPHPQDPEKTVLTQEAIITVKGVSLSYLEGLMASTIS
SNASKGREAMEWVIHKLNAEIEELTASARGTIRTPMAAAAFCREVIVTVGRQHRVLQVSPN

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FIGURE 1394

ATATGATCCGCTCGGCTTCCTGGGTCTGGCTGCTGCCGCCCGCGGTGTCCGCCCGTGTGCGCCGGGGCACCAA
GGAGCCGTTGGAGGGTCCGGGCGGAGGCCCGCTCGTGTGGAAGTCGTGACGCCCGCTCGTCCGTCTCCCGT
CCGTTCTCGCTCCCGGCCGCATCATGCTGGCGCTCATCTCCCGCTGCTGGACTGGTTCCGTTTCGCTCTTCTGG
AAGGAAGAGATGGAGCTGACGCTCGTGGGGCTGCAGTACTCGGGCAAGACCACCTTCGTCAATGTCATCGCGTCA
GGTCAATTCAGTGAAGATATGATACCCACAGTGGGCTTCAACATGAGGAAGGTAACAAAGGTAACGTACAATA
AAGATCTGGGACATAGGAGGACAACCCCGATTTCGAAGCATGTGGGAGCGGTATTGCAGAGGAGTCAATGCTATT
GTTTACATGATAGATGCTGCAGATCGTGAAAAGATAGAAGCTTCCCGAAATGAGCTACATAATCTTCTAGATAAA
CCACAGTTACAAGGAATTCCAGTGCTAGTGCTTGGAAACAAGAGAGATCTTCCTAATGCCTTGGATGAGAAACAG
CTAATTGAAAAAATGAATCTGTCTGCTATTTCAGGATAGAGAAATTTGCTGCTATTCAATTTCTTGCAAAGAAAAG
GATAATATAGATATCACACTTCAGTGGCTTATTTCAGCATTCAAATCTAGAAGAAGCTGGAAGCATCTCTTGAAGT
CTTCCAGTCTTCTTGGCTATAATCCTAGAAATTATTGTCCGTTTCTCTGAAGTAATCCCAGAATACGGTCTCTC
CTAAACCCCGAGAAATTGCCTTTTTTCAGAGTCTATTTCTCATGTGCACTGCTGAAGATGAATATCCCTAATCTTC
ATAAGAATCAGCTAGAGTTGTCTAGATAAAGTCAGCACACACAAAAAGGCTTCTTACACATACCAAAAAAATG
TCTTAAACCATGTGTAGAGCTTTAAAAACAGAAAAAAACCCCATATACTTATGACCATCTTAAATCAAGAAAAT
TGCATATTTCCATTCTGGTCTTTCTGGGCCAGATTTTATATTGGTTTTTCAGTAAATGTCTATCTATAATATTTTC
ATTATAGAGTCCAGTAGCTTAATACTGACACTGACTTGATACAGCACGAAGTTTCTAGTGCCACACACAGTATTT
AGAAAACCTTTAGGCGTGAATGACTCATGTGGGATATATGTAAACATAATGTTTATTTTATCTCACAAATGCATG
TGAAATGTATAATTACATCTTAGGAATCCAAAATGGTCTGCAGAGAGTGAGCGGAGGCACCAGATCAATGTTGGT
TCTTTGCACTGGTGAGATTCTGCCTGATGAATATTAAAGATATCCTGCTTCTGAGAACTCTATCACCAGATGGC
AGTTGGGATATGGGAGGAATAAGCATCCTGTTTTGTATCTGTCCAGATCATTATTTCTGTCTCTTGTTTTTTC
TTCCTGGTTCAGGATACTTTTTTAAGGGGTTGAGAATTGAAGATTTTCCAAAAGCGTTTATGAATTTAGAGCATT
CCACCCAATATAATAAACCTGTTAAGAATGTCAGTCTTTGTTCAAACATCTGTTTGTCTATCTCCAGTCATTA
AATCAGTGCTGCTGCATGACACTCTTAACTCCTGACTTTTTATATCCAGTCATAAAGTTGACTTTTCAGCACAAAA
GATACTTATAACAAATAAAAAATTTTTATTTTTCTCTCTTACTGATGTAAGCTTTGGCACTCTTTTGACTGGTG
CCATTAGACATCTTGATTATTGTGACAACCTCTAGACCTGCCTGCTTTATCTAATGTAATCATGCTCAATGTCTAC
AGGTTGTTTAATAATCAGTCACACAGAGAACTGAGGAAGTATGCTGTTTGTGTTGCTTCTATGATACAGAGATGT
CTAAAAACTTCAAATGGACATGTTTTGTAGTTTAGCGACTTCCGTATACATAAAGGGACATATTAATACTGGTTC
ATTTGTAAATTATTATTATATAGACCCTGTAGTAGATAAACTCTATGGTACACCTGCTTATGTGTTGCCTCA
CACTGTGTGTGATTTTGTCTTTTGTAAAGCAGCACTTATGTAGACTGCATTTCCAAATGTGTTGAGCACTCGG
AGTGTAGTCAACAGTAAGTTCTTTTAATGAATATCAGTTTTAATTTATAGACTGCCATGGCCTTAAAAATATTCT
GTACAATATACTGCACTGTGTTGCACAGACACTACTTGCTTTTTCTCCATTATATTTTTATGAGTAGAATCTGGG
CTTTTAAATTTCTCTTCTTATTCTTTGAAGCATGTTGCATACTACCTGGTGGGATGGATGGTTCTGTAAATGAA
GGGATATTTAAACTTGCTACTGTTGTTCAACACCATTAAATGGTCAAGTGTGAACCATTACAAAGAATGTGGCAACT
TGCTTGTGCCTAAAAGGAGGAATTGGAAGTGAATGTGTGACTCTGTGGGGACTGCATAGGTTTGTAAATTGACC
TATAGCTAAACCTTAATGTGTTTGTGTGTCTATACATTGCTTTCCGCATTCAAGACATCCAGACGCTATTACCA
ACATTTTCTGTGCATTAACCTCTGCATGTGAAAACTTTTAACAGTTACTGAACATATGTAAATATGTGAATTTTT
TTATTTAGGTGGATGCATTTTTTGTCTGTTTACTGCTCTTCTCAGCTTTATTCAATAAACTTGCATTTTTAAGGGT
TGTATTGGCAATTTTAACTTAAATGTGCATCATGATGGAAGGTGCAGACTTTTTTGGAGTTTCCGAGAGGAGG
GTCTATAGACCATTGTGTCAGAAATCAGATCAGCCCTCAAAGAATGGGCTGTGTGGGCTAGTTAAATAGAAATAA
ACTTTTAAATATCCACAG

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FIGURE 1395

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTTFVNVIASGQFSEDMIPTVGFNMRKVTKGNVTIKIWDIGGO
PRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLLDKPQLQGIPVLVLGNKRDLPNALDEKQLIEKMNLS
AIQDREICCYSSISCKEKNIDITLQWLIQHSKSRRS

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FIGURE 1396

GAGCGGCACAGACGAGATCTCGATCGAAGGCGAGATGCGGACGTGCTAGATCTTCACGAGGCTGGGGGCGAAGA
TTTCGCCATGGATGAGGATGGGGACGAGAGCATTACAAACTGAAAGAAAAAGCGAAGAAACGGAAGGGTCGCGG
CTTTGGCTCCGAGGGGTCCCGAGCGCGGATGCGTGAGGATTATGACAGCGTGGAGCAGGATGGCGATGAACCCGG
ACCACAACGCTCTGTTGAAGGCTGGATTCTCTTTGTAAGTGGAGTCCATGAGGAAGCCACCGAAGAAGACATACA
CGACAAATTCGCAGAATATGGGGAAATTAAAAACATTATCTCAACCTCGACAGGCGAACAGGATATCTGAAGG
GTATACTCTAGTTGAATATGAAACATACAAGGAAGCCCAGGCTGCTATGGAGGGACTCAATGGCCAGGATTTGAT
GGGACAGCCCATCAGCGTTGACTGGTGTGTTTGTTCGGGGTCCACCAAAGGCAAGAGGAGAGGTGGCCGAAGACG
CAGCAGAAGTCCAGACCGGAGACGTCGCTGACAGGTCCTCTGTTGTCCAGGTGTTCTCTTCAAGATTCCATTGA
CCATGCAGCCTTGGACAAATAGGACTGGGGTGGAACCTGCTGTGTTTATATTTAATCTCTTACCGTATATGCGTA
GTATTTGAGTTGCGAATAAATGTTCCATTTTGTCTTCTAC

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FIGURE 1397

MADVLDLHEAGGEDFAMDEDGDESIHKLKEKAKKRKGRGFGSEGSRRARMREDYDSVEQDGEPPQRSVEGWILF
VTGVHEEATEEDIHDKFAEYGEIKNIHLNLDRTGYLKGYTLVEYETYKEAQAAMEGLNGQDLMGQPI SVDWCFV
RGPPKGKRRGGRRRSRSPDRRRR

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FIGURE 1398A

TGAGGCGCGGGAGGCCCGCGCCCCGCGGCTCGCTGTGCGTGGGAGGGCGCGAGCGAACGCGGGCGAGGAGCGGCC
GAGCCGCTGAAGAGGAGCTGGGCGCCGGCCGCGCGCTCGGCCCGCGGATCGCCTCCGCCCCGTCTTCGC
CGGCCCCGGCCCCCTGGCGAGATGCGGTGTGGGAGGATTGGCTCAGCCACCCGCTGGGAATCGTGCAGGGATTCT
TCGCCCCAAAATGGAGTTAATCCTGACTGGGAGAAGAAAGTAATTGAGTATTTTAAGGAAAAGCTGAAGGAAAATA
ATGCTCCTAAGTGGGTACCATCACTGAACGAAGTTCCCTTTCATTATTTGAAACCTAATAGTTTTGTGAAATTTT
GTTGCATGATTCAAGATATGTTTGACCCTGAGTTTTACATGGGAGTTTTATGAAACGGTTAACCAAAACACAAAAG
CACATGTTCTTCATTTTGGAAAATATAGAGATGTAGCAGAGTGTGGGCCTCAACAAGAACTTGATTTAACTCTC
CACGAAAATACCACTTTGGAAAGACAGACTTTCTATTGTGTTCCGGTGCCTGGGGAATCTACGTGGGTAAAAGAAG
CCTATGTTAATGCAAACCAAGCTCGAGTCAGTCCCTCAACATCCTACACTCCTAGTCGCCACAAGAGGAGTTATG
AAGATGATGACGATATGGACCTACAGCCCAATAAGCAGAAAGACCAACATGCAGGTGCCAGACAAGCAGGGAGTG
TTGGTGGTCTTCAATGGTGTGGAGAAGCAAAACGTTTAGAACTGAAGCTTCTACTGGGCAACAGCTGAACTCTC
TGAACCTGTCTTCTCCTTTTGATTTGAATTTTCCATTGCCAGGAGAGAAGGGCCCTGCATGCCTTGTGAAGGTTT
ATGAAGATTGGGATTGTTTCAAAGTAAATGACATTCTTGAGCTATATGGCATACTGTCTGTGGATCCTGTGCTGA
GTATACTGAATAATGATGAAAGGGATGCCTCTGCACTGCTGGATCCGATGGAGTGCACAGACACAGCAGAGGAGC
AGAGAGTACACAGTCTCTCTGCTTCATTAGTGCCGAGAATTCATGTGATCTTAGCCCAAGATTGCAACACATCA
ACCCATTATTGCCTGCCTGCCTTAACAAAGAGGAGAGCAAAACCTGTAAGTTTGTTCAGTTTCATGTCCGAAT
TGTCTCCAGTCAGAGCAGAACTTCTTGGGTTCCCTTACTCATGCCCTTCTGGGGGATAGTTTGGCTGCTGAATACC
TTATATTACATCTCATCTCCACAGTATATACAAGAAGAGATGTCCTTCCACTAGGAAAATTTACAGTTAACTTGA
GTGGTTGCCACGGAATAGTACCTTCACAGAACACTTGTATCGAATTATTCAACATCTTGTTCAGCATCTTTTC
GTCTGCAGATGACTATAGAGAACATGAACCATTTGAAATTCATTCCCCACAAAGACTACACAGCCAATCGCTTGG
TCAGTGGGCTCCTCCAGCTGCCCAGCAATACTTCCCTTGTAATCGATGAGACTCTCCTGGAACAGGGGCAGCTGG
ATACCCAGGTGTTTATAATGTGACAGCCCTGAGCAACCTCATAACGTGGCAGAAGGTGGATTATGACTTCAGCT
ACCATCAGATGGAATTTCCCTGCAATATTAAACGTTTTTCACTTTCGGAGGGGAGGTCACTCTCCCGGCAGACT
GCCAGATTCACTTACAGCCCCAGCTAATTCCACCAACATGGAGGAGTACATGAACAGCCTTCTCTCAGCGGTGC
TGCCTTCCGTGCTGAACAAATTCCGCATTTATCTAACTCTTTTGAAGTTCCTTGAATATAGCATATCTGATGAAA
TAACCAAGGCAGTTGAAGATGACTTTGTGGAAATGCGGAAGAACGACCCTCAGAGCATCACTGCTGATGATCTTC
ACCAGCTGCTCGTGGTGGCTCGGTGTCTGTCTCTCAGTGCTGGTCAGACAACGCTGTCAAGAGAACGATGGCTGA
GAGCAAAGCAGCTAGAGTCTTTAAGAAGAACGAGGCTTCAGCAGCAAAAATGTGTGAATGGAAATGAACTTTAA
GATGTAATACCTATGAAGAGTAATGGGCAAACTGTAGCCACATAATTGTAAATTCAGATATTCATTTATACCAC
ATTGTTTTATAGGTAATTTCTATCACAACCAGTGACATTTCTGAAATCAAGCCTGGTAACACCTGATGTTTAT
ATGATATTCAGTAAGGACTTTTACCTTACTGATTTTCATGGAGCTTTTGAAGTTTGTGTTTATAATAATTATATA
TTAGTAATGATGTAAAAAAGTATTTGATATTAAGTTTAAATATTGATAATGTTGCTGATTGTACCATTTCTT
AGCTTCAGCTGAGTCATAGGCCAGACTGTTGAAATGCTGAAATGAAGAAGGTTGTTGCAGTTTCAAAGTCAGAGG
AATCGTGCTTCGATTTCTTATGTTTTCTAGTTCTCTGTTTTTCCAGTTCACAGTGGGTTGGGGTGCATTTCAGTA
GTCCATCTTTGGGGAACGGAGGCGTACTTGCCATTGATTCACATGACTACATGAAATCTGTACTGTCAATTTCCC
AGATGTTTGGCCACAGAACTTTTTCCCACTTAACATTTGTAAACAGCCTGCAAACTAACTTGTACATGGCAG
TGGTTCCAGACTTTTGTATTTTATGGACCGGTAGTAATATTTCCAAAATCTGGGGTACTATAAGGTTGCCAAT
TTACCTTGCCAAGTAATCCGAATAAATCACTGTATTATCACCATTTTTTTCATAAAAGGAAAGGACAATCTATCT
CTGAATAAGAGGAGTCTTTTAAACGGAATGAATGTGGCTTTTGGGGGCAAAAGAAACCAAGACACTACATTGTCT
TTATTTTCTCCTATCCCAGTGCAATTGAGAACCATGCATAAGGGAATGCTGTGCTACAAAGCTGTGCCAAATAT
GAAACAAAATAGGAACTTAAAAAGCAATACCCCTTTAGAAAGTTTTTATTTTCTTAAATGTCAATTGAGTTGC
TTTGATTCTATTGGATTTTTTGGCATTTTTTATGGGATCATCAGTTGGTTCCAAGTATGTTAGATCAGCTAACATC
TGCTACTCCAGTAACAGCCTCGTACAACCTGCAGGTAGGTTTTCTCCAGACCAATTAGTTTTAATAGAGCAAACTA
ACAACAGACTGTAGTAGCATGGTTATGGCAACCAGAATCTTCAGAAAGGTTAGGACATTACTTTTTAAGCTGTCA
GTGGTATCAAATAACTTACCTAGTTGGAGGCAGATAAAGGATCCCTTACGTTTTTCTTATAAGGCCTAAATTGA
AATTGTTAACCAAGGAAACAGGGTCAGCCTTGAAAAATCAAGGAATTCATTGTACCTAATAACTGAAGTAAAAAT
AACTAGTTGTTCACTTTTCTTAACTCAAATCTATTTTTATAAACAAATGTAAATAATGTTTATATTAGAGTTG
AACTGGTTTTTCACTTTTATAACTGGTAGACTAGACCTTCTTAACTTTTAGAAATAAATGAAGGCTTCACTGG

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FIGURE 1398B

ATTTGTGAGGATAAAATACATTTTCTTTAATTGTCCTAGAGCAAAGTACATTAGTCACCATGTGTTTTTTGTGCC
AATGTAACTTGTAATTTACCAAAGAAAAATACATACATTGCTTGGTCTTGCAGAAAAGTTCCCTTGAAAGAACCT
TTCCAATAAATAAAACGTCCCAAATTAGCAGTACCTTGGGCTGTTTTTTCATGAGTAAGAAGATTCACCATCCCAT
GTGATCTGTGTGGAAAAAGACCATGTCCTCTTGGTGGAAGACATGAGAGAGCTGAACTGAAGTGGAGGAGGTGGT
GCAAGAGGGACCTTCCTGCTCAAGGCCCGCCCAGGCAGCGGAATAGAGTGCAGTGCTTGGCTGCAGAAACCCTTT
GTCCCTCACCTATATATACACGGACAGTCAAGTTTGTTGCTCTAACGTAAGGCACAGCGTTAATCCTGTATGGCC
AGGAAACTGAGTAGACTCCTGTGTAACCCTGTTTGGAACCTTGCCTTCTTAAATGATTTTTTC

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FIGURE 1399

MPCGEDWLSHPLGIVQGFFAQNGVNPDWEKKVIEYFKEKLKENNAPKWVPSLNEVPLHYLKPN SFVKFR CM IQDM
FDPEFYMGVYETVNQNTKAHVLHFGKYRDVAECGPQQELDLNSPRNTTLERQTFYCVVPVGESTWVKEAYVNANQ
ARVSPSTSYTPSRHKRSYEDDDMDLQPNKQKDQHAGARQAGSVGGLOWCGEPKRLTEASTGQQLN SLNLSSPF
DLNFPLPGEKGPACLVKVYEDWDCFKVNDILELYGILSVDPVLSILNNDERDASALLDPMECTDTAEEQRVHSPF
ASLVPRIHVILAQKLQHINPLLPACLNKEESKTCKFVSSFMSELSPVRAELLGFLTHALLGDSLAAEYLILHLIS
TVYTRDVLPLGKFTVNLSGCPRNSTFTEHLYRI IQHLVPASFRLOMTIENMNLKFI PHKDY TANRLVSGLLQL
PSNTSLVIDETLLEQGQLDTPGVHNV TALS NLITWQKVDYDFS YHQMEFFPCNINVFITSEGRSLLPADCQIHLQP
QLIPPNMEEYMNSLLSAVLPSVLNKFRIYLTLLRFLEYSISDEITKAVEDDFVEMRKNDPQSITADDLHQLLVVA
RCLSLSAGQTTL SRERWLRAKQLES LRRLRLQQQKCVNGNEL

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FIGURE 1400

TGTTCTTGAGCCCAGCTTCTTCTCGTCTCCACCCCCAGCTTCCCGGCATTGGAAGAAGGGACCGTCCTCTTCCTT
GCTTGGCCACCCAAATCCTGGTATCGAAAGGGTTGAACGGACCGGAAGTGTGCAGCAGCGACGGGTCCCCAGCT
AATCGACGCCGGAAGTAGCAATTACTAGACAAGCATTCCGCCGCCGGCTTCGCTATGCGCGCAATTCCCCCAGAT
TCCTGGCAGCCACCCAACGTTTACTTGGAGACCAGCATGGGAATCATTGTGCTGGAGCTGTACTGGAAGCATGCT
AAGACCTGTAAGAACTTTGCTGAGTTGGCTCGTCGAGGTTACTACAATGGCACAAAATTCCACAGAATTATC
GCTTCATGATCCAAGGAGGTGACCCAACAGGGACAGGTGAGGTGGTGCATCTATCTATGGCAAACAGTTT
GTAAGTGAACCTTCATCCAGACTTGAAATTCACGGGGGCTGGAATTCTCGCAATGGCCAATGCGGGGCCAGATACC
AATGGCAGCCAGTTCTTTGTGACCCCTCGCCCCACCCAGTGGCTTGACGGCAAACACACCATTTTTGGCCGAGTG
AGGGCATAGGAATGGTGAATCGCGTGGGAATGGTAGAAACAACTCCCAGGACCGCCCTGTGGACGACGTG
ATCATTATTAAGGCATACCCTTCTGGGTAGACTTGCTACCCTCTTGAGCAGCTCTTCTGAGATGGCCCCAGTGAA
CTTCTAGATGACATAGAATGACATGTAATGCTAAATTTCAATTTGGCTTTGCAAGTCATGAAGCTTAGGAG
GGCATCTTGGGTGAGTTAGAGATGGAAGTACATTTTAATAGGATGCTTCTTTCTCTTCCCCCAGTGCCTA
TGCCAGAGCATTGACAAAATGCCCCCTGTTTATCAATAGGTGACTACTTACTACACATGAACCATAATGCTG
CTTCTTGTCATGCTCTGCTCTGATATACGTGCAACAATGTAGCAGCCACTGTCATTTCTCAGTGGTTTTGCCTAA
CCAACTTCTTCCTAAGGAGATTTATATTCTGGCCTACACAGCAGTCCTTGATGGCTGACAGCCACAGAATTCCA
AACCAAGTAGTGTCTGTCAGCCCTCTTAACCTCTGTGCACGCCCTATTTAGTCTTTTACATTTGTTCTTCTAGGG
AATGTATGCATCTCTATATATATTTTCCCTCTCAAAACCAGAACATCAACAGTGCTGTTTCTGACACTTCAGACA
TCCCAGCAAAGCCACATTGAATTTTTGCCAAATGAAAAACACATCCAACAATCAAGTTTCTAAGAAGGTGTCAA
GTGGGGAATAATAATAATGTATAATAATCAAGAAATTAGTTTATTAAAGGAAGCAGAAGCATTGACCATTTTTT
CCCAGAGAAGAGGAGAAATCTGTAGTGAGCAAAGGACAGACCATGAATCCTCCTTGAGAAGTAGTACTCTCAGAA
AGGAGAAGCGCCACTCAAGTTCTTTTAACCCAAGACTTTAGAGAAATTAGGTCCAAGATTTTTATATGTTTCAGTT
GTTTATGTATAAAAATAAATTTCTGGATTTTGTGGGGAGGAGCAGGAGAGGAAGGAAGTTAATACCTATGTAATA
CATAGAACTTCCACAATAAAATGCCATTGATGGTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1401

MAAIPDSWQPPNVYLETSMGIIVLELYWKHAPKTCKNFAELARRGYNGTKFHRIKDFMIQGGDPTGTGRGGA
SIYGKQFEDELHPDLKFTGAGILAMANAGPDTNGSQFFVTLAPTQWLDGKHTIFGRVCQGIGMVNRVGMVETNSQ
DRPVDDVKI IKAYPSG

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FIGURE 1402

ACCACGCGTCTCATCCATGGCTTCCGCGGACTCGCGCCGGGTGGCAGATGGCGGCGGTGCCGGGGGCACCTTCCA
GCCCTACCTAGACACCTTGCGGCAGGAGCTGCAGCAGACGGACCCAACGCTGTTGTCAGTAGTGGTGGCGGTTCT
TGCGGTGCTGCTGACGCTAGTCTTCTGGAAGTTAATCCGGAGCAGAAGGAGCAGTCAGAGAGCTGTTCTTCTTGT
TGGCCTTTGTGATTCCGGGAAAACGTTGCTCTTTGTGAGGTTGTTAACAGGCCTTTATAGAGACACTCAGACGTC
CATTACTGACAGCTGTGCTGTATACAGAGTCAACAATAACAGGGGCAATAGTCTGACCTTGATTGACCTTCCCGG
CCATGAGAGTTTGAGGCTTCAGTTCTTAGAGCGGTTTAAGTCTTCAGCCGGGGCTATTGTGTTTGTGTTGGATAG
TGCAGCATTCCAGCGAGAGGTGAAAGATGTGGCTGAGTTTCTGTATCAAGTCCTCATTGACAGTATGGGTCTGAA
GAATACACCATCATTCTTAATAGCCTGCAATAAGCAAGATATTGCAATGGCAAAATCAGCAAAGTTAATTCAACA
GCAGCTGGAGAAAGAACTCAACACCTTACGAGTTACCCGTTCTGCTGCCCCCAGCACACTGTACAGTTCCAGCAC
TGCCCCCTGCTCAGCTGGGGAAGAAAGGCAAAGAGTTTGAATTCTCACAGTTGCCCTCAAAGTGGAGTTCTTGA
GTGCAGTGCCAAGGGTGGAAGAGGGGACGTGGGCTCTGCTGACATCCAGGACTTGAGAGAAATGGCTGGCTAAAAT
TGCCTGAGAGGCGAGCTCTAAAGCACAAGACCTGGATGTGTGACACACAGTTTTGGAAAAAGGTCTGTGGTAGTCT
GGAGTTGATGAGGAAGGGGTACAAGATGTGGTTAGAAACATTTCTTTGTTCTGGAAACAAAGTACTGTTGAAACC
AGCTTGGAATTTTTTTTTTTTTTTTTTTTAAAGTTCAGTTCTCCCTTATGGCTGCCTTTCAAACAAGTACCTTTTA
TCTGATGCCCTGTATCTTCCCTTTGTTAAGGTGTAACCTGATGTAGGGTCAAGGTTTTTGTGACAACAGGCAGACT
CCACACAGAGAGGATATGATGAGAATATGGCCATCACCTGAAAAGTTTTCTTATCTTCTGTGCTTTTGGTCCCTG
GAAACAAATCCGCCTATGTATGAAGCTAGTTGATTTCAGTTGCACTATTTCCAGTTGCCTCTGAAGTTCACAGG
CAATACATTGTCTAGTCCCTTTGCGAATTTCTCTGATTTGTGGGCACAGTTATGAAGTTTCCCCACATGTGAAGAC
AGGTACAAAATAGCAGAGCCAAGCAGACAGTGGGTCTATTCTTCATTAGCTCAGTGACTTGTCACACTCGTCTT
AGCACTTACGTTTCAAAGCTTGTCACAAACCCTTGGAGTCATTCCCAGATAATAGAACTGGAAATGATAAATCC
CCTAATGCCAAGGGTCTAGTGTGTTCTTAGTGGTTATACTGGGAAGTGTGTGGAGATTTAGGTGCTGCTCTGCTG
CTCTGGATGGCTGAAGGCTCCTGGGCCATCTTCATGTGCTGCTTGAAGAGCTCCTATTTGTACTCCTGGCTAGA
ATGCTGTGGAACAAATACAAAGTGAAAAAAGTTCTCTGTAGATTTCTGAAGTGCATATTCATTGATGCCAAGAAA
AAAAAAAAGTTGCCTTTTTG

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FIGURE 1403

MASADSRRVADGGGAGGTFQPYLDTLRQELQQTDP TLLSVVVAVLAVLLTLVFWKLIRSRSSQRAVLLVGLCDS
GKTLLFVRLLTGLYRDTQTSITDSCAVYRVNNNRGNSLT LIDLPGHESLRLQFLERFKSSAGAIVFVVD SAAFQR
EVKDVAEFLYQVLIDSMGLKNTPSFLIACNKQDIAMAKS AKLIQQQLEKELNTRLRVTRSAAPSTLYSSSTAP AQL
GKKGKEFEFSQLPLKVEFLECSAKGGRGDVGSADIQD LEKWLAKIA

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FIGURE 1404

CAGCTTCCCACCCCTGGGCTTTCCGAGGTGCTTTCCGCGCTGTCCCCACCACTGCAGCCATGATCTCCTTAACGGA
CACGCAGAAAAATTGGAATGGGATTAACAGGATTGGAGTGTTCCTGTTCTTTGGAATGATTCTCTTTTTTGA
CAAAGCACTACTGGCTATTGGAAATGTTTTATTTGTAGCCGGCTTGGCTTTTGTAATTGGTTTAGAAAGAACATT
CAGATTCTTCTTCCAAAAACATAAAATGAAAGCTACAGGTTTTTTTCTGGGTGGTGATTGTAGTCCTTATTGG
TTGGCCTTTGATAGGCATGATCTTCGAAATTTATGGATTTTTCTCTTGTTCAGGGGCTTCTTCTGTCGTTGT
TGGCTTTATTAGAAGAGTGCCAGTCCTTGGATCCCTCCTAAATTTACCTGGAATTAGATCATTGTAGATAAAGT
TGGAGAAAGCAACAATATGGTATTAACAACAAGTGAATTTGAAGACTCATTAAAAATATTGTGTTATTTATAAAGT
CATTTGAAGAATATTCAGCACAAAATTAAATTACATGAAATAGCTTGTAATGTTCTTTACAGGAGTTTAAACGT
ATAGCCTACAAAGTACCAGCAGCAAATTAGCAAAGAAGCAGTGAAAACAGGCTTCTACTCAAGTGAACATAAGAAG
AAGTCAGCAAGCAAACCTGAGAGAGGTGAAATCCATGTTAATGATGCTTAAGAACTCTTGAAGGCTATTTGTGTT
GTTTTTCCACAATGTGCGAAACTCAGCCATCCTTAGAGAACTGTGGTGCCGTGTTTCTTTTCTTTTTATTTTGAAG
GCTCAGGAGCATCCATAGGCATTTGCTTTTTAGAAAGTGCCACTGCAATGGCAAAAATATTTCCAGTTGCACTGT
ATCTCTGGAAGTGATGCATGAATTCGATTGGATTGTGTCATTTTAAAGTATTAAAACCAAGGAAACCCCAATTT
GATGTATGGATTACTTTTTTTTTGTAAACATGGTTAAATAAACTTTTGTGGTTCTTCTGAATCTTAATATTCA
AAGCCAGGTGAAAATCTGAACTAGATATTCTTTGTTGGAATATGCAAAGGTCATTCTTTACTAACTTTTAGTTAC
TAAATTATAGCTAAGTTTTGTGTCAGCAGCATACTCCGGAAGTCTCATACTTCTTGGGAGTCTGCCCTCCTAAGTA
TCTGTCTATATCATTACCTACGTGTAAGTATTTAACAAAAAGCATTCTTGACCATGAATGAAGTAGTTGTTC
ATAGCTTGTCTCATTGAATAGTATTATTGAAGATACTAAATGATGCAAACCAAATGGATTTTTTCCATGTCATGA
TGTAATTTTTCTTTCTTCTTTCTTTTTTTTTAAATTTTAGCAGTGGCTTATTATTTGTTTTTCATAAATAAAATA
ACTTTTGATAATGTTTACTTTAAGACATGTAACATGTTAAAAGGTTAAACTTATGGCTGTTTTTAAAGGGCTATT
CATTTAATCTGAGTTTTCCCTTATTTTTCAGCTTTTTCTTAGCATATAATAGTCATTAAAGCATGACATATCCTTCA
TATGATCACTCATCTTGAGTTAATTAGAAAATACCTGAGTTCACGTGCTAAAGTCATTTCACTGTAATAAACTGA
CTATGGTTTCTTAAGAACATGACACTAAAAAAAAGTGGTTTTTTTCCACCGTTGCTGATTATTAGACAGTAGG
AAATAGCTGTTTTCTTTAGTTTTACAAGATGTGACAGCTTTAGTGGTAGATGTAGGGAAACATTTCAACAGCCAT
AGTACTATTTGTTTTACCCTGATTGCACTATTTTTGTTTTTTTTAACAGTTGCAAAGCTTTTTAATGCATAAAAGT
ATAATTGAAATCTGTGGTATTTATTTACAAACATGTCTACAAAAATAGATTACAGCTTATTTATTTTTAGTTAA
ATCTCTTAATACACAGAGAACTCCCAATCTTGCTCATCTAAATAAGGAAAGACTTGGTGTATAGTGTGATGGTTT
AGTCTTAAGGATTAAGACATTTTTGGTACTTGCATTTGACTTACGATGTATCTGTGAAAATGGGATGATATTGAC
AAATGGGAGACTCCTACCTCAATAGTTAATGGAATAATAAGAGGCTACTGTTGTGTCTAATGTTCTTCAAAAAGT
AATATCCTCACTTGGAGAGTGTCAAATACATACTTTGAGGATTGACTTTATATAAGGTGCCCTGTAGAACTCTGT
TACACATATTTTTGACCCATATTATTTACAATGTCTTGATAATTCTACCTTTTTTAGAGCAAGAATAGTATCTGCT
AATGTAAGGGACATCTGTATTTAACTCCTTTGTAGACATGAATTTCTATCAAATGTTCTTTGCACTGTAACAGA
GATTCCTTTTTTCAATAATCTTAATTCAAAAGCATTATTAGACTTGAAAGGGTTTGATAATCTCCAGTCCTTAG
TAAAGATTGAGAGAGGCTGGAGCAGTTTTCAGTTTTAAATGAGTCTGCAGTTAATATCAAATGTGAGTTTGGGAC
TGCCTGGCAACATTTATATTTCTTATTCAGAACCCTTGATGAGACTATTTTTAAACATACTAGTCTGCTGATAGA
AAGCACTATACATCCTATTGTTTCTTTCTTTCCAAAATCAGCCTTCTGTCTGTAACAAAAATGTACTTTATAGAG
ATGGAGGAAAAGGTCTAATACTACATAGCCTTAAGTGTTTCTGTCTATTGTTCAAGTGTATTTCTGTAACAGAAA
CATATTTGGAATGTTTTCTTTTCCCTTATAAATTGTAATTCCTGAAATACTGCTGCTTTAAAAAGTCCCACTG
TCAGATTATATTATCTAACAATTGAATATTGTAAATATACTTGTCTTACCTCTCAATAAAAGGGTACTTTTCTAT
CAAAAAAAAAAAAAAAAAAAAA

1548/2682
FIGURE 1405

MISLTDQTQKIGMGLTGFGVFFLFFGMILFFDKALLAIGNVLFVAGLAFVIGLERTFRFFFQKHMKATGFFLGGV
FVVLIGWPLIGMIFEIYGFFLLFRGFFPVVVGFIIRVPVLGSLNLPGIRSFVDKVGESNNMV

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FIGURE 1406

AAAAAACAGGAAGTGAAGTCCCCGAGCACGTTAGAAAGCCTGACATGGCCTGACTCGGGACAGCTCAGAGCAGG
GCAGAACTGGGGACACTCTGGGCCGGCCTTCTGCCTGCATGGACGCTCTGAAGCCACCCTGTCTCTGGAGGAACC
ACGAGCGAGGGAAGAAGGACAGGGACTCGTGTGGCAGGAAGAACTCAGAGCCGGGAAGCCCCCATTCACTAGAAG
CACTGAGAGATGCGGCCCCCTCGCAGGGTCTGAATTTCTGCTGCTGTTTACAAAAGATGCTTTTTATCTTTAACT
ATTTTCCCCACTTCCGACCCCGCGCTTGATCTGCATCCTGACATTTGGAGCTGCCATCTTCTTGTGGCTGA
AGACCTCAACCCGCTTACCTCTTCTTGACCTGAACAATCAGTCTGTGGGAATTGAGGGAGGAGCACGGA
GGTTTCCCAAGAACAATGACCTAACAAGTTGCTGCTTCTCAGATGCCAAGACTATGTATGAGGTTTTCC
AAGAGGACTCGCTGTGTCTGACAATGGGCCCTGCTTGGGATATAGAAAACCAAACCAGCCCTACAGATGGCTAT
TAAACAGGTGTCTGATAGAGCAGAGTACCTGGGTTCTGTCTCTTGCATAAAGGTTATAAATCATCACCAG
AGTTTGTGCGCATCTTTGCTCAGAATAGGCCAGAGTGGATCATCTCCGAATTGGCTTGTACACGTACTCTA
MGCTGTACCTCTGTATGACACCTTGGGACCAGAAGCCATCGTACATATTGTCAACAAGGCTGATATCGCCA
GATCTGTGACACACCCCAAAAGGCATTGGTGTCTGATAGGGAATGTAGAGAAAGGCTTACCCCCGAGCCTGA
GCTATCATCCTTATGGACCCCTTTGATGATGACCTGAAGCAAAGAGGGGAGAAGAGTGAATTGAGATCTTAT
CTTATATGATGCTGAGAACCTAGGCAAAGAGCACTTCAGAAAACCTGTGCCTCCTAGCCCAGAAGACCTGAGCG
TCTCTGCTTACCAGTGGGACCACAGGTGACCCCAAGGAGCCATGATAACCCATCAAAATATTGTTTTCAAATG
CTGCTGCCTTTCTCAAATGTGTGGAGCATGCTTATGAGCCCACTCCTGATGATGTGGCCATATCCTACCTCCCTC
TGGCTCATATGTTTTGAGAGGATTGTACAGGCTGTTGTGTACAGCTGTGGAGCCAGAGTTGGATTCTTCCAAGGGG
ATATTCCGTTGCTGGCTGACGACATGAAGACTTTGAAGCCACATTGTTTCCCGCGGTGCCTCGACTCCTTAACA
GGATCTACGATAAGGTACAAAATGAGGCCAAGACACCCTTGAAGAAGTTCTTGTGAAGCTGGCTGTTTCCAGTA
AATTCAAAGAGCTTCAAAGGGTATCATCAGGCATGATAGTTTTCTGGGACAAGCTCATCTTTGCAAAGATCCAGG
ACAGCCTGGGCGGAAGGGTTCGTGTAATTGTCACTGGAGCTGCCCCCATGTCCACTTCAGTCATGACATTCTTCC
GGGACGAATGGGATGTCAGGTGTATGAAGCTTATGGTCAAACAGAATGCACAGGTGGCTGTACATTTACATTAC
CTGGGACTGGACATCAGGTCAGTTGGGGTGCCCTGGCTTGCAATTACGTGAAGCTGGAAGATGTGGCTGACA
TGAATACTTTACAGTGAATAATGAAGGAGAGGTCTGCATCAAGGGTACAAACGTGTTCAAAGGATACCTGAAGG
ACCTGAGAAGACACAGGAAGCCCTGGACAGTGTGGCTGGCTTCACACAGGAGACATTGGTCGCTGGCTCCCGA
ATGGAATCTGAAGATCATCGACCGTAAAAAGAACATTTTCAAGCTGGCCCAAGGAGAAATACATTGCACCAGAGA
AGATAGAAAATATCTACAACAGGAGTCAACCAGTGTACAAATTTTGTACACGGGGAGAGCTTACGGTCATCCT
TAGTAGGAGTGGTGGTTCTTGACACAGATGTACTTCCCTCATTTCAGCCAAGCTTGGGGTGAAGGGCTCCTTTG
AGGAATGTGCCAAACCAAGTTGTAAGGGAAGCCATTTTGAAGACTTGCAAAAATTGGGAAAGAAAGTGGCC
TTAAACTTTTGAACAGGTCAAAGCCATTTTCTTCAATCCAGAGCCATTTTCCATTGAAAATGGGCTCTTGACAC
CAACATTGAAAGCAAAGCGAGGAGAGCTTTCCAAATACTTTCGGACCCAAATTGACAGCCTGTATGAGCACATCC
AGGATTAGGATAAGGTACTTAAGTACCTGCCGGCCCACTGTGCACTGCTTGTGAGAAAATGGATTAAAACTATT
CTTACATTTGTTTTGCCTTTCTCTCTATTTTTTTTTTAACCTGTAAACTCTAAAGCCATAGCTTTTGTTTTATAT
TGAGACATATAATGTGTAACTTAGTTCCCAAATAAATCAATCCTGTCTTTCCCATCTTCGATGTTGCTAATATT
AAGGCTTCAGGGCTACTTTTATCAACATGCCTGTCTTCAAGATCCCAGTTTATGTTCTGTGCTCTTCTCATGAT
TTCCAACCTTAATACTATTAGTAACCACAAGTTCAAGGGTCAAAGGGACCCTCTGTGCCTTCTTCTTTGTTTTGT
GATAAACATAACTTGCCAACAGTCTCTATGCTTATTTACATCTTCTACTGTCAAATAAGAGATTTTTAAATTC
GAAAACTGCTTACAATTCATGTTTTCTAGCCACTCCACAAACCACTAAAATTTTAGTTTTAGCCTATCACTCAT
GTCAATCATATCTATGAGACAAATGTCTCCGATGCTCTTCTGCGTAATTAAATTGTGTACTGAAGGGAAAAGTTT
GATCATACCAACATTTCTTAAACTCTCTAGTTAGATATCTGACTTGGGAGTATAAAAATTGGTCTATGACATAT
TGTCCAAAAGGAATGCTGTTCTTAAAGCATTATTTACAGAAGGAAGTGGGAGTAAATCTGTCCCTACAGTTTGC
TGCTGAGCTGGAAGCTGTGGGGGAAGGAGTTGACAGGTGGGCCCACTGAACTTTTCCAGTAAATGAAGCAAGCAC
TGAATAAAAACCTCCTGAACTGGGAACAAAGATCTACAGGCAAGCAAGATGCCACACAACAGGCTTATTTTCTG
TGAAGGAACCAACTGATCTCCCCACCCTTGGATTAGAGTTCTGCTCTACCTTACCCACAGATAACACATGCTG
TTTCTACTTGTAATGTAAAGTCTTTAAATAAACTATTACAGATACTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1407

MLFIFNFLFSPLPTPALICILTFGAAIFLWLITRQPVLPLLDLNNQSVGIEGGARKGVSQKNNDLTSCCFSDAK
TMYEVFORGLAVSDNGPCLGYRKPNQPYRWLSYKQVSDRAEYLGSCLLHKGYKSSPDQFVGIFAQNRPEWIISEL
ACYTYSMVAVPLYDTLGPEAIVHIVNKADIAMVICDTPQKALVLIGNVEKGFTPSLKVIIILMDPFDDDLKQGEK
SGIEILSLYDAENLGKEHFRKPVPPSPEDLSVICFTSGTTGDPKGAMITHQNIIVSNAAFLKCVEHAYEPTPDDV
AISYLPLAHMFERIVQAVVYSCGARVGFFQGDIRLLADDMKTLKPTLFPAVPRLLNRIYDKVQNEAKTPLKKFLL
KLAVSSKFKELOKGIIRHDSFWDKLIFAKIQDSLGGVRVRVIVTGAAPMSTSVMTFFRAAMGCQVYEAYGQTECTG
GCTFTLPGDWTS GHVGVPLACNYVKLEDVADMNYFTVNNEGEVCIKGTNVFKGYLKDPEKTQEALDSGWLHTGD
IGRWLPNGTLKIIDRKKNIFKLAQGEYIAPEKIENIYNRSQPVLQIFVHGESLRSSLVGVVVPD TDVLP SFAAKL
GVKGSFEELCQNVVREAILEDLQKIGKESGLKTFEQVKAIFLHPEPFSIENGLLTPTLKAARGELSKYFRTQID
SLYEHIQD

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FIGURE 1408

GCGGCAATCATGGCGCCACCTGTGAGATACTGCATCCCCGGCGAACGTCTGTGTAACCTGGAGGAGGGCAGCCCG
GGCAGCGGCACCTACACCCGCCACGGCTACATCTTTTCGTCGCTTGCCGGCTGTCTGATGAAGAGCAGCGAGAAT
GGCGCGCTTCCAGTGGTGTCTGTAGTGAGAGAAACAGAGTCCCAGTTACTGCCAGATGTGGGAGCTATTGTAACC
TGTAAGGTCTCTAGCATCAATTCACGCTTTGCCAAAGTACACATCCTGTATGTGGGGTCCATGCCTCTTAAGAAC
TCTTTTCGAGGAACATATCCGCAAGGAAGATGTCCGAGCAACTGAAAAAGACAAGGTTGAAATTTATAAGAGTTTC
CGCCCAGGTGACATTGTCTTGCCAAAGTGATCTCCTTAGGTGATGCACAGTCCAACCTACCTGCTAACCACCGCC
GAGAACGAGCTGGGAGTGGTGGTAGCCACAGTGAGTCAGGTATCCAGATGGTTCCCATCAGCTGGTGTGAGATG
CAGTGCCCTAAGACCCACACTAAAGAATTCCGGAAAGTAGCCCGAGTACAACCCGAATTCTTGACAGACCTAAGAA
GCCACTTTTTTACCCTATGGAAGGGGGTAAGCTGTTCCCTGAGTATAACACCAAGATGCTGCTGTCTTTATTCAAAC
ACCTGGCGTCGGCCAACAGCCACTTCCAGAAAAATCTTCCAGTTTACGCTGTAGATGGAACATGTTTCTGTGAAC
CTATCAGTGGATTTTCAATCTCTTGAGTAATAAATCTTATCTTTTCAAGGCACCAACAAACAAAACCTGTGATATTG
GAAATAGCCTATCCCTCCTGACAGTCCTTATAAATACATATTTTTTGCTATGATAAACTTTTTTACTAAAAGGA
TGTTATAGAGTCTGTTGTCTTAAGCAGAGAAAGACATCTAAATGGTGTGTCAGGACATTTTCACTACTTCTGCTTATT
GAGTACTTACTGTGCTAGGCACTGAGTCAGGTGCTTTACATACGTCCCCTTCATTTAGGTACATTGTGATTTAAT
GAAAATTTGAGGACACGTGGTGATACAGATAGCATGTGAGGCAGGCATGGTGGCTCATGTTGTAAATCCCAGCA
CTTTGGGAAGGCCGAGTTGGTTTTGAACTCCTGGCCTCCCAAGGTGCTGATAGTACAGGCATGAACCACTGTGCT
TGGCCTTTTAAAATTTTGTAGAGATGCAGTCTTACTATGTTGCCAGGCTGTCTCAAACCTCCTGGCCTCAAGTGG
TCCTCCTGCCTTGCCCTCCCAAAATGTTGCAATTACAGGCATGAGCACTGTGCTTGGCAAGCTAAGGAGGATTTT
CACTAGCAGTTTCATTTGACAATACCAATCTAGAGGTGAGCTTCTCAATCTTTAATGTGTATCCAAATCACCTGG
GGAATAGATGCCGATTCTGAAACAGGTCTGGAGTGAGACCTGAGGTTCTGCATGTATAACAAGCTCCCAGGGGGT
CCAGCTGTCA

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FIGURE 1409

MAPPVRYCIPGERLCNLEEGSPGSGTYTRHGYIFSSLAGCLMKSSENGALPVVSVVRETESQLLPDVGAIVTCKV
SSINSRFAKVHILYVGSMPKNSFRGTIRKEDVRATEKDKVEIYKSFRPGDIVLAKVISLGDAQSNYLLTTAENE
LGVVVAHSESGIQMVPISWCEMQCPKTHTKEFRKVARVQPEFLQT

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FIGURE 1410

GCACGAGCCCCGGGCTGCCGGCGCGGGCGCCGCGGCACGTCCACAGGCTGGGTGCGGAGGTGGCGATCGCTGAGA
GGCAGGAGGGCCGAGGCGGGCCTGGGAGGCGGGCCGAGGTGGGGCGCCGCTGGGGCCGGCCCGCACGGGCTTCA
TCTGAGGGCGCACGGCCCGCGACCGAGCGTGCGGACTGGCCTCCCAAGCGTGGGGCGACAAGCTGCCGGAGCTGC
AATGGGCCGCGGCTGGGGATTCTTGTTTGGCCTCCTGGGCGCCGTGTGGCTGCTCAGCTCGGGCCACGGAGAGGA
GCAGCCCCCGGAGACAGCGGCACAGAGGTGCTTCTGCCAGGTAGTGTTACTTGGATGATTGTACCTGTGATGT
TGAAACCATTGATAGATTTAATAACTACAGGCTTTTCCCAAGACTACAAAACTTCTTGAAAGTGACTACTTTAG
GTATTACAAGGTAAACCTGAAGAGGCCGTGTCCTTTCTGGAATGACATCAGCCAGTGTGGAAGAAGGGACTGTGC
TGTCAAACCATGTCAATCTGATGAAGTTCCTGATGGAATTAATCTGCGAGCTACAAGTATTCTGAAGAAGCCAA
TAATCTCATTGAAGAATGTGAACAAGCTGAACGACTTGGAGCAGTGGATGAATCTCTGAGTGAGGAAACACAGAA
GGCTGTTCTTCAGTGGACCAAGCATGATGATTCTTCAGATAACTTCTGTGAAGCTGATGACATTCACTCCCTGA
AGCTGAATATGTAGATTTGCTTCTTAATCCTGAGCGCTACACTGGTTACAAGGGACCAGATGCTTGGAAAATATG
GAATGTCATCTACGAAGAAAAGTGTTTTAAAGCCACAGACAATTAAGACCTTTAAATCCTTTGGCTTCTGGTCA
AGGGACAAGTGAAGAGAACACTTTTTACAGTTGGCTAGAAGGTCTCTGTGTAGAAAAAGAGCATTCTACAGACT
TATATCTGGCCTACATGCAAGCATTAAATGTGCATTGTAGTGCAAGATATCTTTTACAAGAGACCTGGTTAGAAAA
GAAATGGGGACACAACATTACAGAATTTCAACAGCGATTTGATGGAATTTTACTGAAGGAGAAGGTCCAAGAAG
GCTTAAGAAGTGTATTTTCTCTACTTAATAGAACTAAGGGCTTTATCCAAAGTGTACCATTCTTCGAGCGCCC
AGATTTTCAACTCTTTACTGGAAAATAAAATTCAGGATGAGGAAAACAAAATGTTACTTCTGGAAATACTTCATGA
AATCAAGTCATTTTCTTTGCAATTTTGATGAGAATTCATTTTTTGCTGGGGATAAAAAAGAAGCACACAACTAAA
GGAGGACTTTTCGACTGCATTTTAGAAATATTTCAAGAATTATGGATTGTGTTGGTTGTTTTAAATGTCGTCTGTG
GGGAAAGCTTCAGACTCAGGGTTTGGGCACCTGCTCTGAAGATCTTATTTTCTGAGAAATGATAGCAAAATATGCC
AGAAAGTGGACCTAGTTATGAATTCCATCTAACCAGACAAGAAATAGTATCATTATTCACGCATTGTGAAGAAT
TTCTACAAGTGTGAAAGAATTAGAAAACCTCAGGAAGTGTACAGAATATTCATTAAGAAAACAAGCTGATAT
GTGCCTGTTTCTGGACAATGGAGGCGAAAGAGTGAATTTTATTCAAAGGCATAATAGCAATGACAGTCTTAAGC
CAAACATTTTATATAAAGTTGCTTTTGTAAAGGAGAATTATATTGTTTTAAGTAAACACATTTTAAAAATTGTG
TTAAGTCTATGTATAATACTACTGTGAGTAAAGTAATACTTTAATAATGTGGTACAAATTTTAAAGTTAATAT
TGAATAAAAGGAGGATTATCAAATTCATATATGATAAAAGTGAATGTTCTAAGTCTCTCAAACCTAGCGTTTTATG
TAATAATATGTAATATAAATAAACTATGGTAAATGTGACAAGCATTAAATAGGAAAATGCTAAGGAGGCCTCAT
AAATGACCCATAATTACCAACGTAGAATTTTTTCACTACATTTAGGGTTGCTGGATTTAGCAAATAAAAAATAAGA
TTGCCAGTTAGATTTGAATTTTCAAGATAAACAATTAGTTTTTTAATATTTTACATGGAATATTTGGAAAATACTT
ATACTAAAAAATTATTTGTTTGAATTTCACTTTAACTGGGAGTCTTGATTTTTATCTGGCAATCCTAAAATACA
TTGGTATGAAACAAATCACTTTTAGAAGTATATTGCTATTTTGATTGGGTTGTTTTGTGTGTAGAAACGTACAA
TAACAACCTCAAAGGCACAGGAGATTTCTAAACATTGTGAAAAGTTGAATAGATTATATATTTATCTCATAATAC
TTTCACTAATACTAAATAAAATTTGGGGAACACTTTTTATTTTTATATAATTTCCAATTTACAGAAAAGTTTCAA
AAATAGTACAAAGAGCTCTCTTACCCAGATTCATAATTGTTTCATACGTGCTTTATCTTTTCATGCTTTCTCTGTA
CACACACACACACACACAAATTTTCTCAATCATTGAAAGTCAGTTATAGGCATCATGCCCCTTAAACCTAA
ATACTTCAGTGTGTAATACTGAATAATTACTAAAAATGATTTTCTCAGAAAAAAAAGTCCCACAATTTCTGGAAC
TATAATACTGTAAGCCTTAGAATAAATAACTTTCAAGTTCCAATCTAAAGTCTTTTTTGAGTTTTGTTGCCCCG
TTTTATGCTTGATGTGTATAGTAATAGGGTAGGCTATTTATTTTATTAATTTTTTTTATAGAGACAAGTTTTGC
TGTGTTGCCCAAGCTGGAACCTGAACGACTGGGCTGAAGTGATCTTCCACCTCAGCCTCCCAAGTAGCTGGGAA
TACAGGTGTCTGCCACCATAACCCAGTTTCATTTTTGTTTTTATACCCGAAGTTCATTTCTTTGTCTCCCTAAA
ACTGAACTGTAATTTTGGGAGGTTTTCATTAGTGGAAGCTCTTCATTTATAAAGCTATTTGAAGGGGTTTAGGAA
TTTATATCATATGGAATTTGTAGAGAAAAAGAAGCTATATACCTCAAAATCGTGCCCTCTTACATATGTCTTAT
CAGGTATAACATGTTGAAATGTCACATTAGTAGTAAAGTGGGGTTTATTTATATAGTGGTTAAGAAATGTCAGTT
TACACTGCTGTATACTTCTTCTGTGTCCCTAAGGCCTGGTACAGTGCCAAGCACATACTTGGTATCCAATAA
ATATTTGTTGGATGAAAAA

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FIGURE 1411

MGRGWGFLFGLLGAVWLLSSGHGEEQPPETAQAQRCFCQVSGYLDDCTCDVETIDRFNNYRLFPRLOKLLSDYFR
YYKVNLRPCPFWNDISQCGRRDCAVKPCQSDEVPDGIKSASYKYSEEANNLIEECEQAERLGAVDESLSEETQK
AVLQWTKHDDSSDNFCEADDIQSPEAEYVDLLLNPERYTGYKGPDAWKIWNVIYEENCFKPQTIKRPLNPLASGO
GTSEENTFYSWLEGLCVEKRAFYRLISGLHASINVHLSARYLLQETWLEKKWGHNITEFQQRFDGILTEGEGPRR
LKNLYFLYLIELRALSKVLPFFERPDFQLFTGNKIQDEENKMLLLEILHEIKSFPLHFDENSFFAGDKKEAHKLK
EDFRLHFRNISRIMDCVGCFCRLWGKLQTQGLGTALKILFSEKLIANMPESGPSYEFHLTRQEIVSLFNAFGRI
STSVKELENFRNLLQNIH

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FIGURE 1412

C1GTTCCAAACCACGTGGACGCGTCTGGGCTGCTGGAGGCAGCCCGAGCCGCCGCGTCGGTGTGCGCGCCACCA
CCACCATCGGAGTCACGAGTCCCGCGTCTGTCCGAAGTCGCCGCTCTCGGGCTGCTCACGTCTCTTCGGAGAGCG
CGCACATGGCGACTCAGGCGTACTCCCTCAGCTACGCAGGGTGCAACTTCTTGCGCCAACGTCTGGTCTGTCTA
CCCTGAGCGGGCGCCCCGTCAAAATCCGAAAGATTCTGGGCCAGAGACGACAACCCGGGCCTCCGAGATTTTGAAG
CTTCATAAGGCTATTGGACAAAATAACGAATGGTTCTCGAATTGAAATAAACCAAACAGGAACAACCTTAT
CAGCCTGGCCTCCTGTATGGTGGATCTGTGGAACATGACTGTAGCGTCCTTCGTGGCATTGGGTATTACC
GAGTCTTCTTTGCTTGGCTCCATTTATGAAGCACCCGTTAAAAATAGTTCTACGAGGAGTGACCAATGATC
ACGTTGACCCTTCAGTTGATGTTCTTAAGGCAACAGCACTCCCTTTGTTGAAACAATTTGGGATTGATGGTGAAT
TTGAACTGAATATTGTGCGACGGGGAATGCCTCCCGGAGGAGGAGGCGAAGTGGTTTTCTCATGTCCTGTGA
AGGTCTTGAAGCCCATTAACCTCACAGATCCAGGAAAAATCAAACGTATTAGAGGAATGGCGTACTCTGTAC
GTCACCTCAGATGGCGAACCGGATTGTGGATTCTGCGAGGAGCATCCTCAACAAGTTCATACCTGATATCT
TTACACAGATCACATGAAAGGAGTCAACTCTGGGAAGTCTCCGGGCTTTGGGTTGTCACTGGTTGCTGAGA
ACAGTGGCACCTTCCTCAGTGCTGAACTGGCCTCCAACCCCAAGGCCAGGGAGCAGCAGTACTCCAGAGG
ACTTGGCAGGAAGTGTGCCCCGCTGCTGCTGGAGGAAATCTACAGGGGTGGATGCGTAGACTCGACCAACCAAA
GCCTGGCGCTACTACTCATGACCCCTGGACAGCAGGATGTTTCCAAAGTCCTGCTAGGCCCTCTCTCTCCCTACA
CGATAGAATTTTTGCGGCATTGTAAGAGCTTTTTCCAGATTATGTTTAAATGAAACCAAGCCATGTGGTGAAG
AACTCAAGGGTGGGGATAAAGTGCTGATGACCTGTGTTGGCATTGGTTTCTCCAACCTTAGCAAGACCCTCAAGT
GATAACCATCACAAGATAAGGCCCCAGTGCCTACAGACAAAGCAGAAGCTGCCACGGACACCAATGGGACCAAGT
CCAAATGGATTAATCCAGGACAGAATAGCCACTTGCTTAATTTCTGTGAAGAAATATCAATATACAAATAAAAG
ACATCCCTGTAGCATATGGTTTCCAGCTGTTTCTCCAGTGGCATTGCCATTGCCCAGGAGGGGCCAGTCACCAT
GAGAGCTCCCTTGCCCTTACCTGGAGGAAGAATGTGCCCTTCAGGCCACAGTCGTGCTGCTAGAACAGTCTCATAGC
TGCAGTTCAGCTGTGCTTCCCTCAGCCTACTATCATAGGCTTCCTCAGCCCTCTGTATATGGCTGTTTTGCAAAC
CTGTGGAGTCTGTTACTGTTCTTTCTGCAAGGACTCACCTCCTTGAGCCTTGGTTTTTGTGTAGGGATTAAATG
AGATAATATGAGTGGCAGCTCTTCATGAGTCCTGCAGTGCTAAGCAAATGTCAGAAATTGGTGTATTAGACTATT
TATCTTTGATCTTCTGAATGGATTGCTGTGATGGACACGGACACGGATCTTCATCTGGTTCATTGTATTTATATG
TGAGGGATGGATGGCTGCGGGCTCCAAGTAAGTTATTGGGATGTTTTTATATTCCAGGTGTGCTGTACATTCT
TATTTTATTTTACAACAGCTCTGTGATGTAAATGCTATCTCCATGAGAAAATTCATAAAGGGTGTGTTTGTTCCT
TTGAAATGTATAATGTAAAGACATTAAATCTCCTCATTT

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FIGURE 1413

MATQAYSLSYAGCNFLRQRLVLTLSGRPVKIRKIRARDDNPGLRDFEASFIRLLDKITNGSRIEINQGTGTTLYY
QPGLLYGGSVEHDCSVLRGIGYYLESLLCLAPFMKHPLKIVLRGVTNDQVDP SVDVLKATALPLLKQFGIDGESF
ELNIVRRGMPPGGGGEVVFSCPVRKVLKPIQLTDPGKIKRIRGMAYSVRVSPQMANRIVDSARSILNKFIPDIYI
YTDHMKGVNSGKSPGFGLSLVAETTS GTFLSAELASNPQQGGAAVLPEDLGRNCARLLLEEIYRGGCVDSTNQSL
ALLLMTLGQQDVSKVLLGPLSPYTIEFLRHLKSFFQIMFKIETKPCGEELKGGDKVLMTCVGIGFSNLSKTLK

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FIGURE 1415

MERSEELNKDLNPFTPLVGIRIPDHAFMQDLAQMFEGPLALTSANLSSQASSLNVEEFQDLWPQLSLVIDGGQIG
DGQSPECRLGSTVVDLSVPGKFGIIRPGCALESTTAILQQKYGLLPSHASYL

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FIGURE 1416

CAGATAGGCGACACGCGGCGGGCGCTGAGGCGGGAATGCTGCTGTACTGCAGCGCGTCGAGCGGCTGTCCAATC
GAGTCGTGCGTGTGTTGGGCTGTAACCCGGGTCCCATGACCCCTCCAAGGCACCAACACCTACCTAGTGGGGACCG
GCCCCAGGAGAATCCTCATTGACACTGGAGAACCAGCAATTCCAGAATACATCAGCTGTTTAAAGCAGGCTCTAA
CTGAATTTAACACAGCAATCCAGGAAATTGTAGTGA CTACTGGCACCGAGATCATTCTGGAGGCATAGGAGATA
TTTGTAAGCATCAATAATGACACTACCTATTGCATTAAAAA CTCCCACGGAATCCTCAGAGAGAAGAAATTA
TAGGAAATGGAGAGCAACAATATGTTTATCTGAAAGATGGAGATGTGATTAAGACTGAGGGAGCCACTCTAAGAG
TTCTATATACCCCTGGCCCACTGATGATCAGATGGCTCTACTCTTAGAAGAGGAAAATGCTATCTTTTCTGGAG
ATTGCATCCTAGGGGAAGGAACAACGGTATTTGAAGACCTCTATGATTATATGA ACTCTTTAAAGAGTTATTGA
AAATCAAAGCTGATATTATATATCCAGGACATGGCCCAGTAATTCATAATGCTGAAGCTAAAATTCAACAATACA
TTTCTCACAGAAATATTCGAGAGCAGCAAATCTTACATTATTTTCGTGAGAACTTTGAGAAATCATTTACAGTAA
TGGAGCTTGTA AAAATTTTACAAGAATACTCCTGAGAATTTACATGAAATGGCTAAACATAATCTCTTACTTC
ATTTGAAAAAACTAGAAAAAGGAAAAATATTTAGCAACACAGATCCTGACAAGAAATGGAAAGCTCATCTTT
AGTTTCAGATTAAAGAAAGCTTTGTTTTATTTTGCTTTGAGAGAATGGTATGTTTTCTTACTATAGGTTATTTT
ATAGAGAATATAAAAGTATAAAACATTAAAAATAACCCTAGATATACTTTAAATAATGTTATATTTATGCTAAA
ATATGTAAATTACACTATACAACCATATGATAGGTTATTTCTCTAACCTTGTCTTCTAACGTTTTACCAAAAATT
CATAATCTAATAGTTTATCAGTTTTCAATAGATTAAATAAAATGATTACTTTAAAAATAATAAAATTTATCTAAT
TTAAAGTTGATATTATTTTGGCCGTTAGTTATCTATTACTAGTGATCAGTTATACTGTTTTCTATAGCTACTTT
ATTTAACAGCACAGATTTCTATGCACCTTTACTCTTTCTCAACCCTTGTCTCTATCTGTACATAATTGCTTTGT
CTTGATGTTTCTATCACTATATCATGACTATCTATTGGTTCCATAACTCTGTATCATGTGTATTTTCTTATTCT
GGTATACCACAAATGATTCATGCAATGAATTTTTGGTGATTGAAAAATATTAAATTCCCAATTTAAAGTATTAT
ATGATA

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FIGURE 1417

MAAVLQRVERLSNRVVRVLGCNPGPMTLQGTNTYLVGTGPRRILIDTGEPAPIEYISCLKQALTEFNNTAIQEIVV
THWHRDHSGGIGDICKSINNDTTYCIKKLPRNPQREEIIGNGEQQYVYLKGDVVIKTEGATLRVLYTPGHTDDHM
ALLLEENAI FSGDCILGEGTTVFEDLYDYMNSLKELLKIKADIIYPGHGPVIHNAEAKIQQYISHRNIREQQIL
TLFRENFEKSFTVMELVKIIYKNTPENLHEMAKHNNLLHLKKLEKEGKIFSNTDPDKKWAHL

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FIGURE 1418

GTGAGGCTGGCGGTGGCGACAACCGAGGAGGAGGGGCGGGACGCCGTGGAGCACGGCGACCGGCTGAGCGTCATG

GAGGGCTCAGGGGAGCAGCCGGGCCACAACACAGCATCCCGGAGACCACCGCATCCGCGACGGCGACTTCGTG
GTGCTGAAACGTGAAGATGTGTTTAAAGCAGTACAAGTCCAGCGGAGAAAAAGTAACTTTCGAAAAACAGTGG
ACCTGGATAACGTCATTGGCCATAGTTATGGAAGTGCATTGGAAGTGACCAGTGGAGGAAGTCTACAGCCC
AGAAGAGGGGAAGAGCCTACTGCAGAGACTAAAGAAGCGGGCACTGATAATCGAAATATAGTTGATGATGGG
CTCAGAACTTACTCAAGATGACATAAAAGCTTTGAAGGACAAGGGCATTAAAGGAGAGGAAATAGTTCAG
CACTTAATTGAAAATAGTACAACATTCCGAGACAAGACAGAATTTGCCCAAGATAAATATATTAAGAAAGAAA
AATATGAAGCCATCATTACTGTTGTGAAGCCATCCACCGTATTCTTTCAATTATGTATTATGCAAGAGAA
GAAAAATTAACCATGAGATACGATACACTAGCCAGATGTTGACGTTGGGAAATATCCGTGCTGGCAAC
GATTGTGATGGAACGTTGTGCAGGCTTGGTGCTGGGTGCAATGATGGAACGAATGGGAGGTTTTGGCTCC
ATTAGCTATACCTGGAGGAGGACCTGTTCCGGGCAGCAACAGCATGTTTTGGATTTCCTCAATCTTTTCTC
TGGTCTTTATGAATTCCTCTCAACAAAGTGGACAGTCTTCTACATGGAACATTTCTGCCAAGATGTTATCT
TAGAGCCAAAAGACAGTGCTTTGGTTGAAGAAAGTAATGGCACACTGGAGGAAAAACAGGCTTCTGAACAAGAG
AATGAAGACAGCATGGCAGAGGCCCCAGAGAGCAACCACCCAGAAGACCAGGAAACAATGGAACAATTTCTCAA
GATCCGAAACATAAGGGGCCATAAGAGAGAGGAAGCAAAAAAGATTATTCAGGAAAAACAGAGGAGACAAGAA
GAGCAGAGGAAAAAGACATTTAGAGGCTGCCGCTCTGCTGAGTGAAAGAAACGCAGATGGTTAATTGTAGCTAGT
CGTTTCCACCCCACTCCCTGCTGCTGCTTTGCTGGACTTTGTGGCCCCCTCAAGGCCGTTTGTGGTCTACTGT
CAGTACAAAGAGCCTCTGTTGGAATGCTACACAAAAGTGCAGGAGAGGGGAGGGGTCATCAACCTCAGGCTGTCT
GAAACCTGGCTCAGAAATTATCAGGTTTTGCCAGATCGAAGTCATCCTAAACTGCTGATGAGTGGAGGTGGGGT
TATCTTCTCTCCGGCTTCACCGTTGCCATGGACAACCTTAAAGCAGACACCAGCCTCAAATCTAATGCAAGCACT
TTAGAATCACACGAGACTGAGGAGCCTGCAGCTAAAAACGAAAAATGCCAGAGTCTGACTCTTAACCTTTTGA
GAATTGCTCTGAATTTTGTCTCAGGCATTATACAGTTAGTAATTAAGCTTTAATGCCATTACTACTTGTTTTT
TCATATCCCAAGAATAAGAACATGTCTATGTACCCGTTTCTAGGAAGGAGGAGTATATGCCTTTTGTCTATTTCT
GACACAGATGCATTTGGTCTGTCAAACTGCAACCATGGGGTATGTAGTATGACCAACTGCATTTAACAAAACCTC
CTCTAAGTACTTCTAAATATTCTGTGCAAAATATCTTGAGAACTTCAACATCCTAAAAATGTGTTTCTACAAGACT
TTATATTTTAAGCTAAGTGAATAATACAACGTAACATAAAGCAATATGGATGTGTGAGTGTGTGATTTATTATGGTA
AGAAATTTCTCTGTTTCTTCCGTTCTCTTCAACCTAAGCAATATGGATGTGTGAGTGTGTGATTTATTATGGTA
CCAAAAATGTCCACCTTCTTTCTGACGCGGAATAAGCTTTTTTGAATGCTGAGGTTTTATTTTAATAGTTGAC
AACCTGGGAAAGTTCTGAGTATTTATTTTACTGCTCTTTTTTGTGCATAGAAAGGTTTAGTAGGGTACTTTTTTG
CATTAATTTGCCAATACTCTTATTCTTTGTTCTAAATAAAGTGACTAGAAATTTTTGTGTACTATTCAATTAAAGG
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1419

MEGSGEQPGPQPQHPGDHRIRDGDFVVLKREDVFKAVQVQRRKKVTFEKQWFYLDNVIGHSYGTAFEVTSGGSLQ
PKKKREEPTAETKEAGTDNRNIVDDGKSQKLTQDDIKALKDKGIKGEEIVQQLIENSTTFRDKTEFAQDKYIKKK
KKKYEAIITVVKPSTRILSIMYYAREPGKINHMRYDTLAQMLTLGNIRAGNKMIVMETCAGLVLGAMMERMGFG
SIIQLYPGGGPVRAATACFGFPKSFLSGLYEFPLNKVDSLLHGTFSAKMLSSEPKDSALVEESNGTLEEKQASEQ
ENEDSMAEAPESNHPEDQETMETISQDPEHKGPKEGSKKDYIQEKQRRQEEQKRHLEAAAALLSERNADGLIVA
SRFHPTPLLLSLLDFVAPSRPFVVYCQYKEPLLECYTKLRERGGVINLRLSETWLRNYQVLPDRSHPKLLMSGGG
GYLLSGFTVAMDNLKADTSLKSNASTLESHETEPAKKRKCPESDS

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FIGURE 1420

GGCAGTTAGTCGGCTGCAATGSCGCCGGTGAGGCGGTCCGCGAAGTGGCGGCCTGGTGGTATTGAGGCGCGTGGT
GAAGGGGTTTCCACTGTCGGGTACAGGAATAAGAATGTGAGACAGAAGACATGGCGGCCTAACCACCCGCAAGCC
TTCGTGGGGAGCGTTCGCGAGGGACAAGGCTTTGCTTTTCGAAGAAAAGTGAATAACAGCAAAAGTTACAAGAAA
TTGCTACGGAAGGAAAAGAAGGCTCAAACGTCACCTGGAATCTCAATTCACAGATCGATAACCCAGATAATCTGAAA
CATCTCTATTTAGCTGAAGAGGAAAGACATAGGAAGCAAGCAAGAAAAGTTCGACCATCCTTTGTCAGAACAAGTT
CACCAGCCGTTGCTTGAAGAACAGTGTAGCATTGACGAGCCTTTATTTGAAGATCAGTGTAGCTTTGACCAGCCT
CAGCCAGAAGAACAATGTATTAAACAGTAACTCCTTTACAATTTCAAAGAAAAATAAAAAGAAAACATCAAAT
CAAAAAGCACAGAAGAATATGAACAGATACAAGCCAAACGTGCTGCTAAGAAACAAGAATTCGAGAGGAGAAAA
CAGGAGAGAGAAGAAGCCCAAAGGCAGTACAAAAAGAAGAAAATGGAAGTGTTTAAATACTGAACAAAAAGACT
AAAAAGGGCCAACCAAACCTGAATGTACAAATGGAGTACCTTCTTCAAAAAATACAAGAAAAATGTTAAACATT
TGTTCTTACAGGTTAAAAATATCTGCTGCCTATTAGGTTCTTCTGTGACATGTGCCTCCCAGCAGTGAACATAATT
TGTCGACATAAACTGGATTGCTAAACTATGCTAAATATAAGATGTTTACATATTTTATTATGGTAAAAAATTTT
CTAAATATGTTCTACATGTTTCTTATTTATTTGCCTCTGAAGGAAGGTTGGCCTGAAGAACTGAAAGAACCTCTT
ATTTTGCAAGACAGGCCCAAGCATGTAATACTTTTGTACCATATGAGATTTATATGAAATAAATTTTTTAAAAAT
AAGGAAAAAAAAAAAAA

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FIGURE 1421

MAPVRRSAKWRPGGIEARGEVSTVGYRNKNVRQKTWRPNHPQAFVGSVREGQGFAFRRKLKIQQSYKKLLRKEK
KAQTSLESQFTDRYPDNLKHLYLAEEERHRKQARKVDHPLSEQVHQPLLEEQCSIDEPLFEDQCSFDQPQPPEEQC
IKTVNSFTISKKNKKKTSNQKAQEYEQIQAKRAAKKQEFERRKQEREEAQRQYKKKKMEVFKILNKTKKKGQPN
LNVQMEYLLQKIQEKC

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FIGURE 1422

AGCTTCGCGCTAGTGCTGTTTTTTTTTTTTTTTTTTTTAGCAATGGCGGTTCCCGGCGTG GGGGCTCTTGACCCG
TTTGAACCTGTGTGCCCCGAGAGAAGAACTCGAGTCCAGCGGCCTATCGTCAGGCTTTTGAGTTGCCCAGGAACGT
GGCCAAAGACCTTAGGAGAGACGAGCAGCCTTCAGGGAGCGTGAGACAGGCTTTGAAGACAAGATTCCCAAAAG
GAGATTCTCTGAGATGCAAAATGAAAGACGAGAACAGGCACAGCGGACTGTTTTAATACATTGCCCAGAGAAAAT
CAGTGAACAAGTTTCTTAAATATTTATCCCAATTTGGACCTATTAATAATCATTCTCTATGAAAGCTTTGG
TCTCTATGCTGTCGTAGAATTTTGCCAAAAGGAAAGCATAGGTTCACTGCAGAATGGGACTCATACTCCAAGCAC
GGCCATGGAGACTGCAATTCATTTCAGATCACGTTTCTTCAATCTGAAGTTGAAAAACCAGACTTCTGAACGGTC
ACGCGTACGGTCAAGTAATCAGTTGCCACGTTCAAACAAGCAGCTTTTGAATTACTTTGTTATGCAGAAAGTAT
AGACGATCAGCTGAACACTCTCTTGAAGGAGTTCCAGCTAACAGAGGAGAACACTAAGCTCCGATATCTCACCTG
TTCTCTTATTGAAGACATGGCCGCCGCGTATTTTCCAGACTGCATAGTCAGACCTTTGGCTCCTCAGTCAACAC
TTTTGGGAAGTTAGGATGTGATTGGACATGTTTTGGATCTAGATGAAACCAGAAACCTCAGCGCTCACAAGAT
CTCAGGAAATTTTCTGATGGAATTTCAAGTGAAAAATGTTCTTCAGAAAGAAATTGCAACTCAGAAGATCCTGTC
TGIGTTAGGAGAGTGCCCTTGACCACTTTGGCCCTGGCTGTGTGGGTGTGCAAAAAATATTAATGCCCGGTGTCC
GCTCGTGAGGTTCTCACACCAGGCCTCCGGATTTTCAGTGTGATTTGACTACGAACAATAGGATTGCCTTGACAAG
TTCCGAACCTCTTTATATATATGGTGCCCTAGACTCAAGAGTGAGAGCCTTGGTGTTTCAGTGTACGGTGTCTGGGC
TCGAGCACATTCACCTAACAAGTAGTATTCCTGGTGATGATTACAAATTTCTCCCTTACAATGATGGTCATCTT
TTTTCTCCAGAGAAGATCACCCCTATTCTTCCAACACTAGATTCCTTAAAAACCCTAGCAGATGCAGAAGATAA
ATGTGTAATAGAAGGCAACAACCTGCACATTTGTTTCGTGACTTGAGTAGAATTAAACCTTCACAGAACACAGAAAC
ATTAGAATTACTACTGAAGGAATTTTTTGAGTATTTTGGCAATTTTGCTTTTCGATAAAAAATTCATAAATATTCTG
ACAGGGAAGGGAGCAAAACAACCTGATTCTTCTCCTCTGTACATTTCAGAAATCCATTTGAAACTTCTCTCAACAT
AAGCAAAATGTAAGTCAAAGCCAGCTGCAAAAATTTGTAGATTTGGCCCGAGAAAGTGCCTTGATTTTACAACA
GGAAGATACAGATCGACCTTCCATATCAAGTAATCGGCCCTGGGGGCTGGTATCCCTATTGCTACCATCTGCTCC
AAACAGAAAGTCCTTTACCAAGAAGAAAAGCAATAAGTTTGCAATTGAAACAGCCAAAAACTTGCTAGAATCTTT
AAAAGGTAACAGAACAGAAAATTTACAAAAACCAGTGGGAAGAGAACAAATTAGTACTCAGACATGATGGCTGCT
ACATTGTGTAAAGAACTGGGCTTAGCCTATCAAATGGTCTGTGGACTTACTTGGA AAAACTGATTTGAAACTTTC
ACAGATCTCAGCTTTTCATCTGATGTCACTTTTCATGATCTTCTCATTGGCCCCCTTAACCTGGTCTGAAGTTCTG
GGATGTTTTTCAGTTTGATCAGTCTGATACTCAGTGGCACTTTATTA AAACATCAGCTGTGGAGTGTGGCGGTGCA
CACCTGTAGTCCCAGCTGCTCAGGAGGCTGAGGCAGGAGGATCTCTTGAGCCAGGATTTTGAATCCATCGTGGA
CAACATAGCAAGATTCCATCTCTAAAAAAAATGAAATAAACATAAGCCACAAGGAATGGGTGAAAGATTATGT
AATGTGCTTTAACTAAATAGGTAAATATACTAAACAATGCTAAACTCAGTTTTAGGATGAAACCATTTGTTGAT
ATCCACATCAGTCCCTGTTTAGAAAACATTTAAATGACTTTTAGTTATGTACAGTACGTTGGCAATGAATACAT
TAAGCTTCAAATTTGGTAGTGCTCTCGAATATGTATTTGTATTTTTCAAGCGAAGTTCTCTTATTCACATAT
AAATTAAAGTGGGTGGTACTGATATCAAAAAATGTTTATGTTTTTAGAACAGACATTTTCAGTCACTGCATTCTT
AGGTATTCCAAACCAATATGATGACATCAATAGATTGCATTTTAAAAATATTGTTTGATTTTCTATTTTCAA
AATAAAATTCTGTTTCTAACT

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FIGURE 1423

MAVPGVGLLTRLNLCARRRTRVQRP IVRLLSCPGTVAKDLRRDEQPSGSVETGFEDKIPKRRFSEMQNERREQAQ
RTVLIHCPEKISENKFLKYLSQFGPINNHFFYESFGLYAVVEFCQKESIGSLQNGTHTPSTAMETAIPFRSRFFN
LKLKNQTSERSRVRSSNQLPRSNKQLFELLCYAESIDDQLNTLLKEFQLTEENTKLRYLTCSLIEDMAAAYFPDC
IVRPFSSVNTFGKLGCDLDMFLDLDETRNLSAHKISGNFLMEFQVKNVPSEIATQKILSVLGECLDHFPGCV
GVQKILNARCPLVRFSHQASGFQCDLTTNNRIALTSELLEYIYGALDSRVRALVFSVRCWARAHSITSSIPGAWI
TNFSLTMMVIFFLQRRSPPILPTLDSLKTLADAEDKCVIEGNNCTFVRDLSRIKPSQNTETLELLLKEFFEYFGN
FAFDKNSINIRQGREQNKPDSSPLYIQNPFETSLNISKNVSSQSQLOKFVDLARESALILQQEDTDRPSSSNRPW
GLVSLLLPSAPNRKSFTKKKSNKFAIETAKNLLESKGNRTENFTKTSKRTISTQT

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FIGURE 1424

TTTGCTAAAGCCACCATAAAGGAAATAGTTGTGTGGCCCATGTTGAGGCCAGACATCTTTACTGGTTTAAGGGGA
CCCCCTAAAGGAATTTTGCTCTTTGGTCCTCCTGGGACTGGTAAAACCTCTAATTGGCAAGTGCATTGCTAGTCAG
TCTGGGGCAACATTCTTTAGCATCTCTGCTTCATCCTTAACCTCTAAATGGGTAGGTGAGGGGGAGAAAAATGGTC
CGTGCAATTGTTTGCTGTTGCAAGGTGTCAGCAACCAGCTGTGATATTTATTGACGAAATTGATTCCCTTGTTATCT
GGGGAGATGGTGAGCATGAATCTTCTAGAAGGATAAAAACAGAATTTTATGTTCAATTAGATGGAGCAACA
CTTCTGAAGATCGTATCCTAGTGGTGGGAGCAACAAATCGGCCACAAGAAATTGATGAGGCTGCCCGGAGA
TTGGTGAAAAGGCTTTATATCCCTCCCAGAAGCTTCAGCCAGGAAACAGATAGTAATTAATCTAATGTCC
AAGAGCAGTGTTGCCTCAGTGAAGAAGAAATTGAACAGATTGTACAGCAGTCTGATGCGTTTTTCAGGAGCAGAC
ACACAGCTTTGCAGGGAGGCTTCTCTTGGTCCTATTGCGAGTTTACAACTGCTGACATTGCTACCATAACA
GATCAAGTTTCGACCCATAGCTTACATTGATTTTGAAGATGCTTTTAGAACTGTGCGACCTAGTGTTTCTCCA
ATTTTAGAGCTTTATGAAAACTGGAACAAAACCTTTTGGTTGTGGAAAGTAAAGTGGGATACTTGGAATCAAGG
CTCTGTAGTACAGTCTTCTTTATTTTTTAGCATAGAAAGTTGGGGATGTGTTAATTGTATTTTTAAGAATAT
CTAAGTTCTGTACTTCAAATAATAGCACAGATTTTACATCTGATTGACATAGTGTATGTTAATGTAAGTTTT
TTTCCAGTGATTACCTGATACGTAAGCCTATTTGAACAAAGTGAGAATGAACTTTTGTTTCTAAGAAGTCTTT
ATCTTGAAGCTATATAACATGAAAAGTGAGCTCAAATTTTTTTTAGTTGAAGATTACATATAAAGTTGTGTCTGA
TTAATATTCATCTTTTATTGAAGAAAGTGCCTTCTGATGGCCACATAATTCTTAATGTCAGCTAGTATAATGGTT
TACATTTGGACAAAGTATTGCTTAGTGTTATTTAAGTAGATTTAAGATCTCAAAGCTAAAGTGCCAATTTTTACT
TTCTTCAGCCAATTTGTTACCTCTTTTATGGTTTTAAATTTTTATCAGGACTAACATTTTCAGAAATAGCAAGGT
GTGATCTAGTATTAGATTCACAGAACTGAAAGGTTAATTAAGAATGTTGGTTATTTTCACGGGAGCGTGTGATAT
TTAACATTAATTTTTATTTGACACTACAGCCTGTAATACTGCTCTCTTCAAAAACAAGTTTTCAGATTTTTAT
AACAGACCCATTTGTTTTATGAAACATGTTTATTACAGAAACATGAGAAAATAGAGATAAGTAAAAAGAATAAA
AGTCACTATTATCCTACCACTTTGCGGGACACACTATTAATATTTAAGCATAGATTCTTCCAGATGTTTTGTTTT
ATACAGCAGTAGGATTGTGTAATGTATTCTCTCTTGTAGCCTATTCTTCAAAGCGTATCTTCACTTTCCATGTTA
ACATAAATGTCCTTTTATGATTGTCTAGGATTCCATGGATGGATGGAATATAATTGAGTCATCTGGTAGAGCGCA
TATAGGACAGGACGCTAGGTTGTTTATCTTTTGTATTGTAAGGAACATATGTGGGATGCATTTGGTGATCTTT
TAAAAAATGTATAAATTTCTTGAGTAATTCCTGGATTAAAGAATATGCACTTCTT

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FIGURE 1425

MLRPDIFTGLRGPPKGILLFGPPGTGKTLIGKCIASQSGATFFSISASSLTSKWVGECEKMRALFAVARCQOPA
VIFIDEIDSLLSQRGDGEHESSRRIKTEFLVQLDGATTSSDRILVVGATNRPQEIDEAARRRLVKRLYIPLPEA
SARKQIVINLMSKEQCCLSEEEIEQIVQQSDAFSGADMTQLCREASLGPIRSLQTADIATITPDQVRPIAYIDFE
NAFRTVRPSVSPKDLELYENWNKTFGCGK

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FIGURE 1426

CGTGGTTTCCGGAACCTTCGCCCGCGTCTCTGGGCTTTTGCTCTGTCAGGCTGGTGGCGTTTTGGTGTCTTCGTTT
GTTATGGCCGCTGCTGTCGCTATGGAGACAGATGATGCTGGAAATCGACTTCGGTTTTAGTTGGAGTTGGAATTT
GTGCAATGTTTAGCCAACCCAAATTACCTTAATTTTCTTGCCCAAAGAGGTTACTTCAAAGACAAAGCTTTTGTT
AATTATCTTAAATACTTGCTTTACTGGAAAGACCCAGAATATGCCAAGTATCTAAAGTACCCTCAGTGTTTACAC
ATGTTAGAGCTGCTCCAATATGAACACTTCCGAAAGGAGCTGGTGAATGCTCAGTGTCGAAATTTATTGATGAA
CAGCAGATTCTACATTGGCAGCACTATTCGCCGAAGCGGATGCGCCTTCAGCAAGCCTTGGCAGAGCAGCAACAG
CAAATAACACATCGGGAAAAATGAAAACTGGATACAAACGAGGCACCTAATACATGTATATAATGTATTTCTTT
TGTACAGTGAAGACAAAAAAATGAAAACTCTTCCTATCTACCTTTATTATGGTAGCCCCCTAGAACCTTTAGTGT
GCTTTTTTCATCCAACCTTTTTATTGTTAATAGACTATTTCTGTAAACCTGAATTGTTCTTTGATTTCCCTGTGGA
TTTGTAAGGTGTTTTTCTTTTTTACGCATTTAGCATAATCAGCTGATTAAGAATGGAAAAGTTAGGTGCTTTAGA
CCAAATAAGGCACTGGGGCATGGGGTAGGGGTGGGCCACCAAGTATACTGAATTCTAAGGCTAGCTGTTCCCTGAC
ATATAGTAGGGCAAGACCATCTCCTGGAACCTTACTGTCTCAGATCAACTACTCTACCACTCTACTCTAAGATGT
AGTGAGAGTAGCGGAGTCACTGACCTCTTTAAATCATAGGACAGGAAGTGCATAAAGGTTCTTGAATTCTGCAGG
ACAGGAAATAACTGTATTACCTGCTTTGCAAGGTGGCTTTAAGAATCACTGAATCACTGTGGCCTCACTTGACCT
AGTCATGGCAGGACAACTAGTGGTTAGTTACTAACTGGACTCTTGACTTTAGAACAAACATGAGGAGCCTCAAAT
ACTTGTTGTTTCAATTTGGGAAAGCTACCATTGATTTGGGAGGTACCACAAACCAGGTGCTATGTTAAGTGCTT

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FIGURE 1427

MAAAVAMETDDAGNRLRFQLELEFVQCLANPNYLNFLAQRGYFKDKAFVNYLKYLKYLLYWKDPEYAKYLYKYPQCLHM
LELLQYEHFRKELVNAQCAKFIDEQQILHWQHYSRKRMRLLQALAEQQQQNNTSGK

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FIGURE 1428

CTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAAA
TCTGTGAGCTCTTTCCTTATGGGGACCCCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCTCTTGGTACAGGGAGGA
GCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAACCTCCAGCAGCCCTATATCACCAACCGCACC
TTCATGCTGGCTAAGGAGGCTAGCTTGGCTGATAACAACACAGACGTTTCGTCTCATTGGGGAGAACTGTTCCAC
GGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCCT
CAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAGCAACAGGCTAAGCACA
TGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAAAAGCTTGGA
GAGAGTGGAGAGATCAAAGCAATTGGAGAACTGGATTGCTGTTTATGTCTCTGAGAAATGCCTGCATTGACCA
GAGCAAAGCTGAAAAATGAATAACTAACCCCTTTCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTTT
TTTTAACCAAAGGAAGATGGGAAGCCAACTCCATCATGATGGGTGGATTCCAAATGAACCCCTGCGTTAGTTA
CAAAGGAAACCAATGCCACTTTTGTTTATAAGACCAGAAGGTAGACTTCTAAGCATAGATATTTATTGATAACA
TTTCATTGTAAGTGGTGTCTATACACAGAAAACAATTTATTTTTTAAATAATTGTCTTTTCCATAAAAAAGAT
TACTTTCCATTCCCTTAGGGGAAAAAACCCCTAAATAGCTTCATGTTTCCATAATCAGTACTTTATATTTATAAA
TGTATTTATTATTATTATAAGACTGCATTTTATTTATATCATTTTATTAATATGGATTATTTATAGAAACATCA
TTCGATATTGCTACTTGAGTGTAAGGCTAATATTGATATTTATGACAATAATTATAGAGCTATAACATGTTTATT
TGACCTCAATAAACACTTGGATATCCCAAAAAAAAAAAAAAA

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FIGURE 1429

MAALQKSVSSFLMGTLATSCLLLLALLVQGGAAAPISSHCRLDKSNFQQPYITNRTFMLAKEASLADNNTDVRLI
GEKLFHGVSMSERCYLMKQVLNFTLEEVLPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKD
TVKKLGESGEIKAIGELDLLFMSLRNACI

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FIGURE 1430

CTCGAAAAGGCCCATGTGGGCAGGGGGTGTGGCAGGAGCTCCAGCACTGGAGACCCACGGACTCAACCCAGTT
ACCTCACATGGGGCCTTTTCTGAGCAAGGTCTCGAAAGCGCAGGCCGCCCTGGCTGAGCAGCACCGCCCTTTCCC
AGCTGCACTCGCCCTGTGGACAGCCCCGACACACCACTTTCTGAGGCTGTCGCTCACTCAGATTGTCCGTTTGC
TATGCCGAATGCAGCCAAAATTCCTTTTTTACAATTTGTGATGCCTTACCGATTGATCTTAATCCTGTATTTAAA
GTTTTCTAACTGCCTTATACTGTGTTTCTCTTTTTGGGGGAGCTTAACTGCTTGTGTCTCCCTGTCGTCTGCA
CCATAGTAAATGCCACAAGGGTAGTCGAACACCTCTCTGGCCCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCC
TGTCTCCAGGGCTGCTGCGGCCAGCCCCGAGCCTGCCCCACGTGGCGCGCCTCTGTCTGATCAGCACCTTCCTG
GAGGACGGCATCCGTATGTGGTTCCAGTGGAGCGAGCAGCGCGACTACATCGACACCACCTGGAAGTGGCGCTAC
CTGCTGGCCTCGTCCCTTCGTCTTCCTCAACTTGCTGGGACAGCTGACTGGCTGCGTCTGGTGTGAGCAGGAAC
TTCGTGCAGTACGCCGTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGCCCTACAGCATTTTATGGGAC
TTGAAGTTTTTGATGAGGAACCTGGCCCTGGGAGGAGGCCTGTTGCTGCTCCTAGCAGAATCCCGTTCTGAAGGG
AAGAGCATGTTTGCGGGCGTCCCCACCATGCGTGAGAGCTCCCCCAAACAGTACATGCAGCTCGGAGGCAGGGTC
TTGCTGGTTCTGATGTTCAIGACCCTCCTTCACTTTGACGCCAGCTTCTTTCTATTGTCCAGAACATCGTGGGC
ACAGCTCTGATGATTTTAGTGGCCATTGGTTTTTAAACCAAGCTGGCTGCTTTGACTCTTGTGTGTGGCTCTTT
GCCATCAACGTATATTTCAACGCCTTCTGGACCATTCCAGTCTACAAGCCCCATGCATGACTTCCTGAAATACGAC
TTCTTCAGACCATGTCCGTGATTGGGGGCTTGCTCCTGGTGGTGGCCCTGGGCCCTGGGGGTGTCTCCATGGAT
GAGAAGAAGAAGGAGTGGTTAACAGTACAGATCCCTACCTGCCTGGCTAAGACCCGTGGCCGTCAAGGACTGGTT
CGGGGTGGATTCAACAAAAGTCCAGCTTTTATGTATCCTCTTCCCTTCCCTTCCCTTGGTAAAGGCACAGATGT
TTTGAGAACTTTATTTGCAGAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCTGA
CCCTTCAGTGCAGGCCAGCCTGGCAGCTGGAAGCCTCCCCACGCCGAGGCTTTGGAGTGAACAGCCCCGCTTGGC
TGTGGCATCTCAGTCCTATTTTTTGTAGTTTTTTTGTGGGGGTACAGGAGGGGGCCTTCAAGCTGTACTGTGAGCAG
ACGCATTGGTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTTTAGCGGAAACTACTAAATT
ATTTTGGGTGGTTCAGCCAAACCTCAAAACAGTTAATCTCCCTGGTTTTAAATCACACCAGTGGCTTTGATGTTG
TTTCTGCCCCGATTGTATTTTATAGGAATAGTGAACATTTAGGGACACCCAAAGAATGATGCAGTATTAAAG
GGGTGGTAGAAGCTGCTGTTTATGATAAAAGTCATCGGTGAGAAAATCAGCTTGGATTGGTGCCAAGTGTTTTAT
TGGGTAACACCCTGGGAGTTTTAGTAGCTTGAGGCAAGGTGGAGGGGCAAGAAGTCCTTGGGGAAGCTGCTGGTC
TGGGTGCTGCTGGCCTCCAAGCTGGCAGTGGGAAGGGCTAGTGAGACCACACAGGGGTAGCCCCAGCAGCAGCAC
CCTGCAAGCCAGCCTGGCCAGCTGCTCAGACCAGCTTGCAAGCCGAGCCGCTGTGGGCAGGGGGTGTGGCAGG
AGCTCCCAGCACTGGAGACCCACGGACTCAACCCAGTTACCTCACATGGGGCCTTTTCTGAGCAAGGTCTCGAAA
GCGCAGGCCGCCCTGGCTGAGCAGCACCGCCCTTTCCCAGCTGCACTCGCCCTGTGGACAGCCCCGACACACCAC
TTTCTGAGGCTGTGCTCACTCAGATTGTCCGTTTGCTATGCCGAATGCAGCCAAAATTCCTTTTTTACAATTTG
TGATGCCTTACCGATTGATCTTAATCCTGTATTTAAAGTTTTCTAACTGCCTTATACTGTGTTTCTCTTTTT
GGGGGAGCTTAACTGCTTGTGCTCCCTGTCGTCTGCACCATAGTAAATGCCACAAGGGTAGTCGAACACCTCTC
TGGCCCCCTAGACCTATCTGGGGACAGGCTGGCTCAGCCTGTCTCCAGGGCTGCTGCGGCCAGCCCCGAGCCTGC
CTCCCTCTTGGCCTCTCATCCATTGGCTCTGCAGGGCAGGGGTGAGGCAGGTTTCTGCTCATAAGTGCTTTTGG
AGTCACCTACCTTTTTTAAACACAGCCGAAGTACCTCCCAACGCGTTTGCAAATATTCCCTGGTAGCCTACTTCCT
ACCCCCGAATATTGGTAAAGATCGAGCAATGGCTTCAGGACATGGGTTCTCTTCTCCTGTGATCATTCAAGTGCTC
ACTGCATGAAGACTGGCTTGTCTCAGTGTTCACCTCACCAGGGCTGTCTCTTGGTCCACACCTCGCTCCCTGT
TAGTGCCGTATGACAGCCCCCATCAAATGACCTTGGCCAAGTCACGGTTTTCTGTGGTCAAGGTTGGTTGGCTG
ATTGGTGGAAAGTAGGGTGGACCAAAGGAGGCCACGTGAGCAGTCAGCACCAGTTCTGCACCAGCAGCGCCTCCG
TCCTAGTGGGTGTTTCTGTCTTCTCCTGGCCCTGGGTGGGCTAGGGCCTGATTGCGGGAAGATGCCCTTTGCAGGGAG
GGGAGGATAAGTGGGATCTACCAATTGATTCTGGCAAACAATTTCTAAGATTTTTTGTCTTTATGTGGGAAACA
GATCTAAATCTCATTTTATGCTGTATTTTATATCTTAGTTGTGTTTGAACAGTTTTGATTTTTGGAAACACATC
AAAATAAATAATGGCGTTTGTGTATGCAAGTGTGATCCTATAGCGTTGCCAGCCTGAATGGGGCTCCCCCTCAGG
ATGCCAGTGAGCGAGGTTACTTCTTAGGCTTCTCTGAAGACCACTCAGAAGCCATGTCCAGAGAGAATTAGTCC
CTCAGAGTCCCTGCTGCTTCTGGGTGTGGGGGACAGACTCCCTCAGCCCTGCCTTAGAGGGCAGCAGATGTCAT
GAGACAAGGATAAGTGGGTAGAGAAGACACTGGGGACAACCCGATCATTAGAGGACACACGGTTTTGATCAGGAG
CGGGGGAAATATCTGAAGGCTTTCTCGAAACTTCACGGCATGTGCT

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FIGURE 1431

MRNLALGGGLLLLLAESRSEGKSMFAGVPTMRESSPKQYMLGGRVLLVLMFMTLLHFDASFFSIVQNIVGTALM
ILVAIGFKTKLAALTLVVWLFAINVYFNAFWTIPVYKPMHDFLKYDFFQTMSVIGGLLLVVALGPGGVSMDEKKK
EW

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FIGURE 1432A

GCTGACGGTTGCTGCACACACAGTCCCCACGTCAGATCCTGAGCTTGACAGGGGAGAGCTCCGTCGGGCTGGGAAG
CGCCAGCCCTGGTTTGCAACAGCACACATGCGCTGTCCAGAGCCTGGGGCCTCCTCCTGCTGCTCTGGAGATTTT
CGGATAAAGTGTAAACGTGATCTTACTATTAGTCAACCATGTGGCCCTCTAGGTGTGGCACCCCTGGCTGTACCT
AAGCCAACCCCTTGTTCTGTACAGGTACTCTGGGCGTCACTGGGCAGGCTGGGAGGTCCAGGCCCTTGGCACCTCA
GCCATGTGTGACCTGCAGGCTGGGGTCAAGTCTTGGCATTGCACCATCAGGTCTGCGAAGCCTAGGGGAACCCCT
TCCCGCTGGGTTTAATATAGCCATTTGTAAGGTGAGGGGTGGACCAGAGCAGCGGAGATGCCTGGCAAAGTGCA
GCGGTGCCTCAGGAGGGAGGCTGCTGCTGGCATGTCTGGGCAGACATGTCTGCGTCATAGCCTGCAGCACCCA
GGATGACCCACGGCAAAGAGTGGCCTGGCCTCAGATGCCAGTAGTGTGAGGTGCAGAAACGTTGGATAGATGAC
CTCTAAGTGCCTTTTTCAGATGTCAATTCTGTGATTCCAACCTTGTAATGCCTTTGACCGAAAAGAGCAGCTCTGTG
TCTTGTGGCAGTGCCACCTTGGAAGACTGTAGTTGCCTGCCGAGGCACTGGGGGAAATCAAGGTAGCAGAGTGTT
AGGGCTGCTGCCCTATAGGATCTGCCCCAGAGGGCCTAACGTCAAGTCATGCATCTCCGGGACTGATCCTTGGAT
TGTTGCATGTGTCCAGACTCACAGGGTAGCGCTCAGGAGCAAGCACTGAGAGCCCCCTAGTCTGCCCTGGGAAGG
CACCGGGGCTGACAAGAGCTCTTGCCCTCCACAGCGTCTGTTTCTCACACACCCCGCCCAAGGACGTGCCTGGCA
GCGGCCTGGTGTCCCCGCCGAGCCACCTACCCCTTGGGTTTCTGTGGCCCTGCAGTTCCCTCCGTGTCAAAAG
CAGTACCTGCCCCACGTGGCGCGCCTCTGTCTGATCAGCACCTTCTTGGAGGACGGCATCCGTATGTGGTTCCAG
TGGAGCGAGCAGCGGACTACATCGACACCACCTGGAAGTGC GGCTACCTGCTGGCCTCGTCTTCTGCTCTTCTC
AACTTGCTGGGACAGCTGACTGGCTGCGTCTGGTGTGAGCAGGAACCTTCGTGCAGTACGCCTGCTTCGGGCTC
TTTGAATCATAGCTACTGCAGACGATTGCCTTACAGCATTTTATGGGACTTGAAGTTTTTGATGAGGAACCTGG
GCCCTGGGAGGAGGCCTGTGCTGCTCCTAGCAGAATCCCGTTCTGAAGGGAAGAGCATGTTTGCGGGCGTCCCCA
CCATGCGTGAGAGCTCCCCCAAACAGTACATGCAGCTCGGAGGCAGGGTCTTGCTGGTTCTGATGTTTCATGACCC
TCCTTCACTTGACGCCAGCTTCTTTTCTATGTCCAGAACATCGTGGGCACAGCTCTGATGATTTTAGTGGCCAT
TGGTTTTAAACCAAGCTGGCTGCTTTGACTCTTGTGTGCGGCTCTTGCCATCAACGTATATTTCAACGCCTT
CTGGACCATTCAGTCTACAAGCCCATGCATGACTTCTGAAATACGACTTCTTCCAGACCATGTCCGGTGATTGG
GGGCTTGCTCCTGGTGGTGGCCCTGGGCCCTGGGGGTGTCTCCATGGATGAGAAGAAGAAGGAGTGGTAACAGTC
ACAGATCCCTACCTGCCTGGCTAAGACCCGTGGCGTCAAGGACTGGTTCGGGGTGGATTCAACAAAACTGCAGC
TTTTATGTATCCTCTTCCCTTCCCTTCCCTTGGTAAAGGCACAGATGTTTTGAGAACTTTATTTGCAGAGACACC
TGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCTGACCCTCAGTGCAGGCCAGCCTGGCAGC
TGGAAGCCTCCCCACGCCGAGGCTTTGGAGTGAACAGCCCGCTTGGCTGTGGCATCTCAGTCCATTTTTGAGT
TTTTTTGTGGGGGTACAGGAGGGGGCCTTCAAGCTGTACTGTGAGCAGACGATTGGTATTATCATTCAAAGCAG
TCTCCCTCTTATTTGTAAGTTTACATTTTACGCGAACTACTAAATTATTTGGGTGGTTTACGCCAAACCTCAA
AACAGTTAATCTCCCTGGTTTAAATCACACCAGTGGCTTTGATGTTGTTTCTGCCCCGATTGTATTTTATAGG
AATACTGAAAACATTTAGGGACACCCAAAGAATGATGCAGTATTAAAGGGGTGGTAGAAGCTGCTGTTTATGATA
AAAGTCATCGGTGAGAAAATCAGCTTGGATTGGTGCCAAAGTGTTTTATTGGGTAACACCCTGGGAGTTTATAG
CTTGAGGCAAGGTGGAGGGGCAAGAAGTCCTTGGGGAAGCTGCTGGTCTGGGTGCTGCTGGCCTCCAAGCTGGCA
GTGGGAAGGGCTAGTGAGACCACACAGGGGTAGCCCCAGCAGCAGCACCCTGCAAGCCAGCCTGGCCAGCTGCTC
AGACCAGCTTGAGAGCCGAGCCGCTGTGGGCAGGGGGTGTGGCAGGAGCTCCAGCACTGGAGACCCACGGAC
TCAACCCAGTTACCTCACATGGGGCCTTTTCTGAGCAAGGTCTCGAAAGCGCAGGCCGCCCTGGCTGAGCAGCAC
CGCCCTTTCCAGCTGCACTCGCCCTGTGGACAGCCCCGACACACCCTTTCTGAGGCTGTGCTCACTCAGAT
TGTCCGTTTGCTATGCCGAATGCAGCCAAAATTCCTTTTTTACAATTTGTGATGCCTTACCGATTTGATCTTAATC
CTGTATTTAAAGTTTTCTAACACTGCCTTATACTGTGTTTCTTTTTTGGGGGAGCTTAACTGCTTGTGCTCCC
TGTCGTCTGCACCATAGTAAATGCCACAAGGGTAGTCGAACACCTCTCTGGCCCCCTAGACCTATCTGGGGACAGG
CTGGCTCAGCCTGTCTCCAGGGCTGTGCGGCCAGCCCCAGCCTGCCTCCCTCTTGGCCTCTCATCCATTGGC
TCTGCAGGGCAGGGGTGAGGCAGGTTTCTGCTCATAAGTGCTTTTGGAAAGTCACCTACCTTTTTAACACAGCCGA
ACTAGTCCCAACGCGTTTGCAAATATTCCCTGGTAGCCTACTTCTTACCCCCGAATATTGGTAAGATCGAGCA
ATGGCTTCAGGACATGGGTTCTTCTCCTGTGATCATTCAAGTGCTCACTGCATGAAGACTGGCTTGTCTCAGT
GTTTCAACCTCACCAGGGCTGTCTTGGTCCACACCTCGCTCCCTGTTAGTGCCGTATGACAGCCCCCATCAA
TGACCTTGGCCAAGTCACGGTTTCTCTGTGGTCAAGGTTGGTTGGCTGATTGGTGGAAGTAGGGTGGACCAAAG
GAGGCCACGTGAGCAGTCAGCACCAAGTTCTGCACCAGCAGCGCTCCGTCTAGTGGGTGTTCTGTTTCTCCTG

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FIGURE 1432B

GCCCTGGGTGGGCTAGGGCCTGATTCGGGAAGATGCCTTTGCAGGGAGGGGAGGATAAGTGGGATCTACCAATTG
ATTCTGGCAAAACAATTTCTAAGATTTTTTGCTTTATGTGGGAAACAGATCTAAATCTCATTTTATGCTGTATT
TATATCTTAGTTGTGTTTGAAAACGTTTGATTTTGAAACACATCAAATAAATAATGGC

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FIGURE 1433

LTVAHTVPTSDPELAGESSVGLGSASPG LQQHTCAVQSLGPPPAALEIFG

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FIGURE 1434

GGCGGAGAGGGCCGGCCGGCCGGCACATTCTGTGGAGGCCGAGCGGGTGCGGCGCCGACGGGAGGAGCAGCGAG
CGAGCGACGAACGCCGAGCCGAGCCTCCCGCCGTCGCCATGGGCCAGAACGACCTGATGGGCACGGCCGAGGACT
TCGCCGACCAGTTCTCTCCGTGTCACAAAGCAGTACCTGCCCCACGTGGCGCGCCTCTGTCTGATCAGCACCTTCC
TGGAGGACGGCATCCGTATGTGGTTCCAGTGGAGCGAGCAGCGCGACTACATCGACACCACCTGGAACTGCGGCT
TGGCTGGCCTCGTCCTTCGTCTTCTCAACTTGCTGGGACAGCTGACTGGCTGCGTCCTGGTGTGAGCAGGA
CGTGCAGTACGCCTGCTTCGGGCTCTTTGGAATCATAGCTCTGCAGACGATTGCCTACAGCATTTTATGGG
TGAAGTTTTTGATGAGGAACCTGGCCCTGGGAGGAGGCCTGTTGCTGCTCCTAGCAGAATCCCGTTCTGAAG
GCAAGAGCATGTTTGCGGGCGTCCCCACCATGCGTGAGAGCTCCCCAAACAGTACATGCAGCTCGGAGGCAGGG
TGGCTGGTTCTGATGTTTCATGACCCTCCTTCACTTTGACGCCAGCTTCTTTTCTATTGTCCAGAACATCGTGG
TACAGCTCTGATGATTTTAGTGGCCATTGGTTTTAAACCAAGCTGGCTGCTTTGACTCTGTTGTGTGGCTCT
TCAATCAACGTATATTTCAACGCCTTCTGGACCATTCCAGTCTACAAGCCCATGCATGACTTCTGAAATACG
TCTTCCAGACCATGTCGGTGATTGGGGGCTTGCTCCTGGTGGTGGCCCTGGGCCCTGGGGGTGTCTCCATGG
TGAAGAAGAAGAGGAGTGGTTAACAGTCACAGATCCCTACCTGCCTGGCTAAGACCCGTGGCCGTCAAGGACTGG
TTCGGGGTGGATTCAACAAAACCTGCCAGCTTTTATGTATCCTCTTCCCTTCCCCTCCCTTGGTAAAGGCACAGAT
GTTTTGAGAACTTTATTTGCAGAGACACCTGAGAATCGATGGCTCAGTCTGCTCTGGAGCCACAGTCTGGCGTCT
GACCCCTCAGTGCAGGCCAGCCTGGCAGCTGGAAGCCTCCCCACGCCGAGGCTTTGGAGTGAACAGCCCCTTG
GCTGTGGCATCTCAGTCCTATTTTTGAGTTTTTTTGTGGGGGTACAGGAGGGGGCCTTCAAGCTGTACTGTGAGC
AGACGCATTGGTATTATCATTCAAAGCAGTCTCCCTCTTATTTGTAAGTTTACATTTTTAGCGGAACTACTAAA
TTATTTGGGTGGTTCAGCCAAACCTCAAACAGTTAATCTCCCTGGTTTAAATCACACCAGTGGCTTTGATGT
TGTTCTGCCCCGATTGTATTTATAGGAATACTGAAAACATTTAGGGACACCCAAAGAATGATGCAGTATTAA
AGGGGTGGTAGAAGCTGCTGTTTATGATAAAAGTCATCGGTCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1435

MGQNDLMGTAEDFADQFLRVTKQYLPHVARLCLISTFLEDGIRMWFQWSEQRDYIDTTWNCGYLLASSFVFLNLL
GQLTGCVLVLSRNFVQYACFGLFGIIALQTIAYSILWDLKFLMRNLALGGGLLLLLAESRSEGKSMFAGVPTMRE
SSPKQYMQLGGRVLLVLMFMTLLHFDASFFSIVQNIVGTALMILVAIGFKTKLAALTLVVWLFAINVYFNAFWTI
PVYKPMHDFLKYDFFQTMSVIGGLLLVVALGPGGVSMDEKKKEW

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FIGURE 1436A

CCGGTTCCCGCGGTTCGACGCTCCAGCCGCCTCCTCCGCGCAGCCGCCCTCAGCTGCTCGCTCTGTGGGTTCGGT
CCTCTCCGGCACTTGGGCTCCAGTCGCGCCCTCCAAGCCCTTCAGGCCGCCCCAGTGTCTCTCTCTCTCCGGC
CAGACCCAGCCCCGCGAAGATGGTGGACCGCGAGCAACTGGTGCAGAAAGCCCGGTGGCCGAGCAGGCGGAGCG
CTACGACGACATGGCCGCGGCCATGAAGAACGTGACAGAGCTGAATGAGCCACTGTCTGAATGAGGAACGAAACCT
TCTGTCTGTGGCCTACAAGAACGTTGTGGGGGCACGCCGCTCTTCCTGGAGGGTCATCAGTAGCATTGAGCAGAA
GACATCTGCAGACGGCAATGAGAAGAAGATTGAGATGGTCCGTGCGTACCGGGAGAAGATAGAGAAGGAGTTGGA
GGCTGTGTGCCAGGATGTGCTGAGCCTGCTGGATAACTACCTGATCAAGAATTGCAGCGAGACCCAGTACGAGAG
CAAAGTGTTCTACCTGAAGATGAAAGGGGACTACTACCGCTACCTGGCTGAAGTGGCCACCGGAGAGAAAAGGGC
GACGGTGGTGGAGTCTCTCCGAGAAGGCCTACAGCGAAGCCCACGAGATCAGCAAAGAGCACATGCAGCCCACCCA
CCCCATCCGATTAGGCCTGGCTCTTAACTACTCCGTCTTCTACTATGAGATCCAGAAGCCCCAGAGCAAGCGTG
CCACTTGGCCAAGACCGCGTTCGACGACGCCATCGCCGAGCTTGACACCCTCAACGAGGACTCCTACAAGGACTC
CACGCTCATCATGCAGCTCCTCCGCGACAACCTCACGCTCTGGACGAGCGACCAGCAGGACGACGATGGCGGCGA
AGGCAACAATTAAGGCCCCAGGGGAAGTGGCAGCGCACGCGGATGCTACTACTGCAGTCTTTATTTTTTTCCCAT
GAGTTGGGGGTTCGGGTGGGGGAGGGAAAGGGAGGGATGACCTTCCCAGGGAGAAACCCACGACCTGTCTGTCTT
TGATCGCCTCTTTGACATTTTTGCCAAAATACCACTAGTGGAAAGTCAGGCTAGCTGTGTCTCTAATTTAACTTATTGC
AGCCTCACACTGGCGTCTGGACTGTTCTGTAGATTTCATGCAAGTGGAGCTGTCTGTCTCTAATTTAACTTATTGC
TAGATAATAGGGTTTTTCAGATGAAAAGAAAACCTTAAAGAGGAATGGCCCTCATTTCAGTAAGTTCTGTGGTTCCAG
TAAGGATTTTTATGTACATACGCTCTCGTCTCTCGTTTTGGGTACTTTCTATCTCATCTGTCTCGGCTCTGCATG
TTTTCCAGGGTGTAGCCTACAGACATGGAACAGTGTAATCCAGACTGACAGACTTAGAACCTGAGGTCTCATT
CATCCTTATGGTTTAGGCCCTTGCCAGTTTTCCGAAGTCTCTGATTAGTTGACAGTATTAACACTAAATTGCAGTT
TACAGTATTTCTACATTACAGCCATATGTAACATCAAGCCATCGATTGTGTACTTTTTCTTTTGCTAGTTGTTTG
GCTTTAATCATCCTTATTCAGCCTTATCCAGGTTGGTTTTGCTGTTGATCGGTCTCCTAGGCTAAATGAGAATGAA
AGCGACTTCAGGTTTTTGGTTTCATAGGTGCTCGGCAGGTGGCTGTGGGATTTTTTTTTTTGGTCCCTCTTTCCCTC
TTAACGTAAATCCACCACCAAATATTAATCCTCTTGAGAGAAACGTGAAACGCCACAAAATAGAGAAAATTC
AGGTCTGTATGTATGGATCGTGTGTTGGTATTTTCAGAGAACATCCCGCTTCTGAAGCTGCTGCAGCTCCCTCCTC
AGGGATCACACTGCCGTCACCCACTCTGCAGTGGGGCGTTTTCTACTGCGCCTCGTGTGCGGACGCAGCTGGG
TGCAGAAGCTGTGGGGTCGGAGAGGCGTTTTGGAGAAGGTCTGTGGTGCAGTGTGTGAAAATTCAGGTGCTAGAAG
CCTACTGGTAGAAAAACCCAAAAGGAAGAGCTATATCCTTAACCATTCTGTCCAATTCGGGAGCCTTGTCACTG
TGTCAGTTTTTCTCCCCGAAGACACTCCTTCCCCAAGTAATTGTAGGAAGATAAAAAAACTGTTACCAGATAAC
AAACACTTAACTCCTATTTGACCAGAATTTTTCTCTCGAGATAGTTTTTCTTTTAAATGAAAAAAGCATAGG
AATTGGAGATTGGCTTGTCTCACGCAGCCAGTGCACATTTGGAATTGACGGAAACAACGTTGCTATTTCCACCCA
TTTGTTCGCGCAGCCTTAAGGCCCTCATTCTCATTTCGGGTGAATCTGTCTATCTGTGAACGTGGCCCGCATGT
GCATTCTTTTTTTTATATATATAAAGTCAGTGACGAGGCACTCCCGAGACGTGTAATGACACCACACTTGTTTTTC
TTTGTTCCTTTGTTTTATTTAGGCAAGAAGAGGTGTGAGTAATTGAGGAAAACTGACAGATGCTTTTGCTAATA
CCAAAATTGAGCTTACAATTAGGAAGTGAATGTGTAACAGGATACAGGTGACAGTGAAGATAGAAGAACCACG
ATGACCACAGACTCAATGTGCTCTGTAACATCGCACAGTTTACCCAGCATGACTTTCCTTAGGAGGCCCTCCT
CACGCTAGAGTAAAAGTCCCAGTTAAGTGAAGCCTACCAGAAGAACTAGTAGAAGAAGCTTTGCCGCTTTTGTGC
CTCTCACAGGCGCTAAAGTCATTGCCATGGGAGGAAGACGATTGGGGGGGGAGGGGGGGGAGGGTAGGTGG
GGCTTCCCTAATTTATCTTCATGTCCAGTGAGCAGTGTGCGTTTTTCTTGTAGCATTGGAATGATTTACT
GGAATTACAAAACCTATTTTTCTTTAAATTTTCAGCTTTGGCTCTGGCTGCTTTTTAGATAATGCAAGATAAAA
ATCACACCTGAGGGCTGAAAACGGAGAGGGAATGGGAGACTTGATATTTAAGCAGCTTGAATGGTTTTTCTTTTC
TTATTTTTTAAAGAAATGCATTGCCATGATACTGTCTCTCCAGTGAATGATTACTCCTCCATTACTCTATTG
ATACAATATTGTGCATGCTAGTGTGTAATTTCTATACAGTAGCTTGAAATTGATTAACCTTATACTGTAGGTGTTA
TGATTTCTATGACAAAAAAATTAAGTCTTCAAATTTTTTAAAGGTTTTTTTTTTTTTAAATTTAATTTTCTTTT
TGGGGGTAAAGTTTGCTCTACCAAATAGTGATTGTAACAAATGATCTGTTTTGGATGTTGCTATAGTGACATGC
AGTTATATATTTTGTTTTTTAAAGGGGGGGAGCAAAAGAAACACCAAGTGTAGCTTAATCTTAATGTCTGGTGT
TGTCATGGTGAAATTATAACTATTACAGTGTGGAGAACAACAAATATGTTCTCTGAATGAGCCTTTGTGCTTTT
TGTCATGTTATGCAGTGAAGTATTTTTAAGGTCTAATCAGTGATTATTTTTCCAGCTCCGTGTTTCTCTAAGGAA

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FIGURE 1436B

TTATTTACACACGGACCATCTTTAGCAGTTTCCTCAGTGATGGAATATCATGAATGTGAGTCATTATGTAGCTG
TCGTACATTGAGCAAATAAACTTACAGATCTGACGCC

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FIGURE 1437

MVDREQLVQKARLAEQAERYDDMAAAMKNVTELNEPLSNEERNLLSVAYKNVVGARRSSWRVISSIEQKTSADGN
EKKIEMVRAYREKIEKELEAVCQDVLSLLDNYLIKNCSETQYESKV FYLKMKGDYYRYLAEVATGEKRATVVESS
EKAYSEAHEISKEHMQP THPIRLGLALNYSVFYYEIQNAPEQACHLAKTAFDDAIAELDTLNEDSYKDSTLIMQL
LRDNLTTLWTSDQQDDDGEGNN

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FIGURE 1438

ATGGCATTGGCGTCCGGGCCCCGCAAGCGCTAAGCATGGCTCCGGGCAGCTCGGCCTTGGGGGCTTCGGGGCCCCGA
GACGCGGGGTATGAGTGGGGCGTGCCTCCACGCGGAAGTCGGAGCCTCCTCCCCTGGATAGGGTGTACGAGATC
CCTGGACTGGAGCCCATCACCTTTGCGGGGAAGATGCACTTCGTGCCCTGGCTGGCGCGGCCGATCTTTCCGCCC
TGGGACCGCGGCTACAAGGACCCAAGTTCTACCGCTCGCCCCCTCTTCACGAGCATCCGCTGTACAAAGACCAG
GCCTGCTATATCTTTCACCACCGTTGCCGCCTTCTCGAGGGTGTAAAGCAGGCCCTCTGGCTCACCAAGACCAAG
TTAATAGAAGGCCTTCCCGAGAAAGTGCTTAGCCTTGTTGATGATCCAAGGAACCACATAGAGAACCAAGACGAG
TGCGTTCGAATGTGATCTCTCACGCCCCTCTCTGGCAGACCACTGAGGAAATCCCCAAGAGAGAGACCTACTGC
CCGGTCATCGTGGACAACCTAATACAGCTGTGTAATCTCAGATTCTCAAGCATCCTTCTCTGGCCAGGAGGATC
TGTGTCCAAACTCCACGTTTTCTGCTACCTGGAACCGAGAGTCTCTTCTCCTTCAAGTCCGTGGTTCTGGTGGA
GCCCCACTGAGCACTAAGGATCCTCTGCCCACCATCGCCTCCAGAGAGGAGATTGAAGCTACTAAGAATCATGTT
CTAGAGACCTTCTACCCCATATCACCCATCATCGATCTTCATGAATGCAATATTTATGATGTGAAAAATGACACA
GGATTCCAGGAAGGCTATCCTTACCCCTATCCCCATACCCTGTACTTACTGGACAAAGCCAATTTACGACCACAC
CGCCTTCAACCAGATCAGCTGCGGGCCAAGATGATCCTGTTTGCTTTTGGCAGTGCCCTGGCTCAGGCCCCGCTCC
TCTATGGGAATGATGCCAAGGTCTTGGAGCAGCCCGTGGTGGTGCAGAGCGTGGGCACGGATGGACGTGTCTTCC
ATTTCCTAG

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FIGURE 1439

MALASGPASAKHSGQLGLGGFGARDAGYEWGVRSTRKSEPPPLDRVYEIPGLEPITFAGKMHFVPWLARPIFPP
WDRCYKDPRFYRSPPLHEHPLYKDQACYIFHHRCLLEGVKQALWLTKTKLIEGLPEKVLSLVDDPRNHIEHQDE
CVLNVISHARLWQTTEEIPKRETYCPVIVDNLIQLCKSQILKHPSLARRICVQNSTFSATWNRESLLLQVRGSGG
ARLSTKDPLPTIASREEIEATKNHVLETFYPISPIIDLHECNIYDVKNDTGFGQEGYPYPYPHTLYLLDKANLRPH
..DQLRAKMILFAFGSALAQARSSMGMMPRSWSSPWWCRAWARMDVSSIS

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FIGURE 1440

AAGTGTGCTGGTGCCCTCTGCCGCTGCTCCCGTCTCTTTGGTTACGCTCGTCAGCCGGTCGGCCGCCGCTCCAGCC
GTGTGCCGCTATGGGAGTCCCGGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGTCCATCATAGTCAACTGCGT
GGAAGAGAAGCCAAAAGAATGCAATGGTGTAAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGGA
GTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCATCCTGAAGACAAACCAGCACCAAA
AAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACT
TCTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGGTTTCAGGGCATC
AAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCAAAAGGTGGCTTTCTTCC
TCCAGAAGAAATAAAAGAAAGATTTGACAGCAACTGTATTACACCAGGAAGTGAATTCATGGACAATCTTGCTAA
ATGCCTTCGCTATTACATAGCTGATCGTTTAAATAATGACCCCTGGGTGGAAAAATTTGACAGTTATTTTATCTGA
TGCTAGTGCTCCTGGTGAAGGAGAACATAAAATCATGGATTACATTAGAAGGCAAAGAGCCAGCCTAACCATGA
CCCAAATACTCATCATTGTTTATGTGGAGCAGATGCTGATCTCATTATGCTTGGCCTTGCCACACATGAACCGAA
CTTTACCATTATTAGAGAAGAAATCAAACCAAACAAGCCCAAACCATGTGGTCTTTGTAATCAGTTTGGACATGA
GGTCAAAGATTGTGAAGGTTTGCCAAGAGAAAAGAAGGGAAGCATGATGAACTTGCCGATAGTCTTCCTTGTC
AGAAGGAGAGTTTATCTTCCTTCGGCTTAATGTTCTTCGTGAGTATTTGGAAAGAGAACTCACATGGCCAGCCT
ACCATTACATTGATGTTGAGAGGAGCATTGATGACTGGGTTTTTCATGTGCTTCTTTGTGGGAAATGACTTCCT
CCCTCATTTGCCATCGTTAGAGATTAGGGAAAATGCAATTGACCGTTTGGTTAACATATACAAAATGTGGTACA
CAAACTGGGGGTTACCTTACAGAAAGTGGTTATGTCAATCTGCAAAGAGTACAGATGATCATGTTAGCAGTTGG
TGAAGTTGAGGATAGCATTTTTTAAAAGAGAAAGGATGATGAGGACAGTTTTAGAAGACGACAGAAAGAAAAAG
AAAGAGAATGAAGAGAGATCAACCAGCTTTCACTCCTAGTGGAATATTAACCTCATGCCTTGGGTTCAAGAAA
TTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCAGAATAACTCTAGTCC
TTCGATATCTCCTAATACGAGTTTACATCTGATGGCTCCCCGTCTCCATTAGGAGGAATTAAGCGAAAAGCAGA
AGACAGTGACAGTGAACCTGAGCCAGAGGATAATGTCAGGTTATGGGAAGCTGGCTGGAAGCAGCGGTACTACAA
GAACAAATTTGATGTGGATGCAGCTGATGAGAAATCCGTCGGAAAGTTGTGCAGTCGTACGTTGAAGGACTTTG
CTGGGTTCTTAGATATTATTACCAGGGCTGTGCTTCCCTGGAAGTGGTATTATCCATTTTATTATGCACCATTTGC
TTCAGACTTTGAAGGCATTGCAGACATGCCATCTGATTTGAGAAGGTTACGAAACCGTTTAAACCACTAGAACAA
ACTTATGGGGGTATTTCCAGCTGCAAGTGGTAATTTTCTACCTCCATCATGGCGGAAGCTCATGAGTGATCCTGA
TTCTAGTATAATTGACTTCTATCCTGAAGATTTTGCTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGT
TGCTCTCTTGCCATTCTGTGGATGAGCGAAGGCTACGAGCTGCCCTAGAAGAGGTATACCCAGACCTCACTCCAGA
AGAGACCAGAAGAAACAGCCTTGGAGGTGATGTCTTATTGTGGGGAACATCACCCTCCATGACTTTCATTTT
AGAGCTGTACCAGACAGGTTCCACAGAGCCAGTGGAGGTACCCCTGAACTATGTATGGGATTCAAGGAAAGTT
TTCTTTGGATGAAGAAGCCATTCTTCCAGATCAAATAGTATGTTCTCTCTGTTCCTATGTTAAGGGATCTGACACA
GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTTGCTGAAGATTACATTTTTTAAAGCTGTAATGCTTCC
AGGAGCAAGAAAGCCAGCAGCAGTACTGAAACCTAGTGACTGGGAAAAATCCAGCAATGGACGGCAGTGGAAAGCC
TCAGCTTGGCTTTAACCGTGACCGGAGGCCTGTGCACCTGGATCAGGCAGCCTTCAGGACTTTGGGCCATGTGAT
GCCAAGAGGCTCAGGAAGTGGCATTACAGCAATGCTGCACCACCACCTGTGACTTACCAGGGAACTTATACAG
GCCGCTTTTGGAGAGGACAAGCCCAGATTCCAAAACCTATGTCAAATATGAGGCCCCAGGATTCTTGCGAGGTCC
TCCTCCCCTTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGGGCTGAACCTCTGCTCCCATGGAACCGGATGCT
GCAAAACCAGAATGCAGCCTTCCAGCCAAACAGTACCAGATGCTAGCTGGGCCTGGTGGGTATCCACCCAGACG
AGATGATCGTGAGGGGAGACAGGGATATCCAGAGAAGGAAGGAAATACCCTTTGCCACCACCCTCAGGAAGATA
CAATTGGAATTAAGCTTTTGTAAAGCTTTCCCAAATCCTTTTATCATATTCTACAGTTTTATGCTATTTGTGGAAG
ATTTCTTTCTCAAGTAGTAGTTTTTAAATAAACTACAGTACTTTGTGTATTTCTTTTAACTGTGTATTTCTAC
TGATCTGATCTCACTGTTTATGTTGCTTTCCAAAGATGATGTTGCATAATACAGTGGATCTGAATTTATTATTG
CTTATAAAACACATTTGATGGAATAGGAGTACTGGTTTTTATAATGGTTAAAAATGAAACCAGCTGTGGATTTT
AAAACACAGTGTATTCTAGATCATCTAAGATCCATGCTGATTTTTTATTGCACAAGAATTAGGTTTGAACCTTGA
GCTGGAACCTCAGCAAAGTAGAGTATATATTGTTTCAGTATTTCTTTGGAAACATTTTCAATTAATGTACTTGTCTTA
CAGAAATTTCTGAACTTTAGTAAAAAAAATAAAGTTAAACTTTTAAACTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1441

MGVPAFFRWLSRKYPSSIIVNCVEEKPKECNGVKIPVDASKPNPNDVEFDNLYLDMNGIIHPCTHPEDKPAPKNEDEMMVAIFEYIDRLFSIVRPRRLLYMAIDGVAPRAKMNQORSRRFRASKEGMEA AVEKQRVREEILAKGGFLPPEEIKERFDSNCITPGTEFMDNLAKCLRYIIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNTHHCLCGADADLIMLGLATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGEFIFLRLNVLREYLERELTMASLPFTFDVERSIDDWVFMCFVGNDFLPHLPSLEIRENAIDRLVNIYKNVVHKTGGYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDSDSFRRRQKEKRKRMKRDQPAFTPSGILTPHALGSRNSPGSQVASNPRQAAYEMRMQNNSSPSISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYYKNKFDVDAADEKFRRKVVSQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGIADMPSDFEKGTKPFPKPLEQLMGVFPAASGNFLPPSWRKLMSPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYPDLTPEETR RNSLGGDVLVFGKHHPLHDFILELYQTGSTPEVEVPPELCHGIGKFSLDEEAILPDQIVCSPVPMRLDLTQNTVVSINFKDPQFAEDYIFKAVMLPGARKPAAVLKP SDWEKSSNGRQWKPQLGFNRDRRPVHLDQAAFRTLGHVMPRGSGTGIYSNAAPPPVTYQGNLYRPLL RGQAQIPKLMSNM RPQDSWRGPPPLFQQQRFDRGVGAEP LLPWNRMLQTQNAAFQPNQYQMLAGPGGYPPRRDDRGRQGYPREGRKYPLPPPSGRYNWN

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FIGURE 1442A

CGGGGCGGAGGCGGAGGAGCGGCCGCCGCGCGGGGCCAGCCGGAGCCGCCGCCCTCGCCCTTGCCTTTGCCTG
CGCGGCTCAGAATCACCATCCGCGGCGGGGAGACGAGCCGGCCGTCCCGGGCCGGGGGACCCGCCGCCATGGCC
ACCAAGGCTCGGGTTATGTATGATTTTGCTGCTGAACCTGGAAATAATGAACTGACGGTTAATGAAGGAGAAATC
ATCACAATCAGAAATCCGGATGTAGGTGGAGGATGGCTGGAAGGAAGAAACATCAAAGGAGAACGAGGGCTGGTT
CCCACAGACTACGTTGAAATTTTACCCAGTGATGGAAAAGATCAATTTTCTTGTGGAAATTCAGTGGCTGACCAA
GCCTTCCTTGATTCTCTCTCAGCCAGCACAGCTCAGGCCAGTTCGTCCGGCTGCCAGCAACAATCACCAGGTTGGC
AGTGGCAATGACCCCTGGTCAGCCTGGAGTGCCTCCAAATCTGGGAACTGGGAAAGCTCAGAAGGCTGGGGGGCC
CAGCCAGAGGGGGCTGGAGCCCAAAGAAACACAAACACTCCCAACAACCTGGGACACTGCCTTCGGCCACCCCCAG
GCCTACCAAGGACCAGCAACTGGTGATGATGATGACTGGGATGAAGACTGGGATGGGCCAAATCCTCTTCCTAC
TTTAAGGATTCAGAGTCAGCTGATGCAGGCGGCGCTCAGCGAGGAAACAGTCGTGCTAGTTCCTCATCCATGAAA
ATTCCCCCTTAACAAATTTCTTGATTTGCGAAACCTGGCACGGAACAGTATTTGTTGGCCAAACAACCTAGCAAAA
CCCAAAGAGAAAATTTCCCATCATTGTTGGAGATTATGGCCCAATGTGGGTTTATCCTACCTCTACTTTTGACTGT
GTGGTAGCAGATCCCAGGAAAGGCTCCAAAATGTATGGTCTAAAGAGCTACATCGAATATCAGCTAACACCTACT
AACACTAATCGATCTGTAAACCACAGGTATAAGCACTTTGACTGGTTATATGAGCGTCTCCTGGTTAAGTTTGGG
TCAGCCATTCCAATCCCTTCTCTTCCAGACAAAACAAGTCACAGGCCGCTTTGAAGAGGAATTTATCAAAATGCGC
ATGGAGAGACTTCAGGCCTGGATGACCAGGATGTGTGCCATCCAGTAATCTCAGAAAGTGAAGTTTTCAGCAG
TTCCTAAATTTCCGAGATGAGAAGGAATGGAAAACCTGGAAAAGAGGAAGGCCGAGAGAGATGAGCTGGCGGGAGTC
ATGATATTTTCCACCATGGAACCAGAGGCACCTGACTTGGACTTAGTAGAAATAGAGCAGAAGTGCGAGGCTGTG
GGGAAGTTCACCAAGGCCATGGATGACGGCGTGAAGGAGCTGCTGACGGTGGGGCAGGAGCACTGGAAGCGCTGC
ACGGGCCCATTACCCAAGGAATATCAGAAGATAGGAAAGGCCCTTGACAGAGTTTGGCCACAGTGTTTCAAGTTCCAGT
GGCTATCAAGGTGAAACAGATCTCAATGATGCAATAACAGAAGCAGGAAAGACTTATGAAGAAATTGCCAGTCTC
GTGGCAGAACAGCCAAAGAAAGATCTCCATTTCTTGATGGAATGTAATCACGAGTATAAAGGTTTTCTTGGCTGC
TTCCCTGACATCATTGGCACTCACAAGGGAGCAATAGAAAAAGTGAAAGAAAGTGACAAACTAGTTGCAACAAGT
AAAATCACCTTACAAGACAAACAGAACATGGTGAAGAGAGTCAGCATCATGTCTTACGCGTTGCAAGCTGAGATG
AATCACTTTTACAGTAACCGGATCTATGATTACAACAGTGTATCCGCCTGTACCTGGAGCAGCAAGTGCAATTT
TACGAAACGATTGCAGAAAAGCTGAGGCAGGCCCTCAGCCGCTTTCCAGTGATGTAGGACAGAACGGGCCCTTGAA
GAGAATGCCGCGTGCTTTCTCCTGACTTGGGGCAATGCAATTCAAACCTTTTTTCCCCTATTATTTCAGAAAAAAA
AGGAAACAAAACCAAAAAGAAAGAGTTGCAAAAACCTGCATTTATTTTATTAGCCACCCTAAATGCGTCAGTTAT
TTAGGGATGGTCTTTTGTTCATTTCGCATCCATTATTTAAACAGTGGAATTTGTCTCTATTTTGGAAAGTAC
TTAAAAGTTACCAGAATTTTCAATGGAAAATGAGGGTTTTCTCCCACTGATATTTTACATAGAGTCATAATTTA
TATGTCTTATAAATTATAAGTCTTATATAATTTATAAGTCTCCACAATCTTCCAGTCTTACCCAGTGTGAGAT
AATTAATTACTAATTACTTTCTTAAAAACATGAACTATGCCAGAATAAAAAATATCTATGTTGTATATTTTAT
AACTCCTTTTCACTCTCTGGGGCTCCTGTCAATTGAGGGAAGTCGTTACGCCTTTCACTGCCACAGTTACAGCTCA
AGTGCTTACACTTCAAGAGGGAGGACGCTGGGGGCCCTGGGGTGAAGTGTGATGATGATGATGATGATGATGATGAT
GGGCCATCCCATGTCCCTCCAGGGGACCCACAGCCTGGCAGATGAGCAGATACCCCTGGCCACCCATGTCTCTCA
GCGACATTTCTGATGTGCTGCTCTTATGTGAGGACCAGTGCTTTCTCTCTTTGCACTTCTTCTCTAATCTTGGTT
AAGGCATGTTTTATGCCATGAAGAATACATTAGAAGAATTGAGGGACTTTGTAGAGAATTTTGTGGCTTTGGTCC
GACGGGTGAGTGGCTGTGCGGAGGCCTGTGTTGCGGAGGGCCTGGGGGAAGGAGGGCACCCAGCACCCCGGCGTC
TCTGGCCCTTTCTTATTCTTTGGCTCCTCATCCACCGTGATGAGAAGCGCTGCTGTGGCCACGGCACACTGCTTG
GCTTGGGTGGCGGGTTTCATGGCCAGTTGGTGTCTATCAGCAAGAGAAAAAGCACAGGTTAGTCCCCATTAGATG
GAAAAGTGTAGGGACTGAGAAGGGCTGCAGCCTCAGCAGTGATCAGAGTCCCCGGCGCTCTGAGGTTGGAGAGAA
AGAACAGACCAGCGCCCTTCTGACTACATCCGAACTTCACACAGGGTGTCTTCTGAGCACCAGCACTTCCAGCG
CTTCACTTAACGGCATAAAGCAAAACAGGACCTTGGCACACCGCTCAGCTCGAACTCAACACTGGCAGCCACCGTC
TCACCCCTGCGGAGGAGCGCTCCCGTCTCCACAGGTGCCTTACCGCGTTCCCTCCCGCTGCTTTTCAATTTTCTG
ACCTTAATAATTACGGGAAATGGAAAGTCTGGGCCAGCATCAATAAAATGACACCAAAAATAAGTAGATGAAATC
AAATGAATATGAGAACATCTTGTCTTCAATATCACGGTTTTTGTAAATGTTTCATAAGTAATTTCTCCCACTT
GATTTTCTCTATAAAATCCCATAGAACAATGTTTATGCTATAGCCATTTAATATATGTACAAATTGTAAAGAA
TATGTATAAATGTTTTACACGAATGTAAGAGCATGTAGAAGCCAACATATAAATAAATTGTTTTAAAAAACTGTA

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FIGURE 1442B

CAGTAAATTCTCAAATCACTTTTTCAAAACACTTTTTGGACTTTGTGTGTGATTTTTGTTGTTGTTGTTAAGTAC
TTTTTATTCCAGCTGCTGAAAATGGTCCAGGTAATGAATTCTTCCCCAAATCCTATTTCTTCTGACATGAATTCA
TCATTTTCAGTTCCGTAGGTCAAGTGTGCGGTCCGGGAAGCGTATCATAACCACCTGGGAAGTTGCCAATGAAGC
AGACAAGTCTCCAGTGTCTGACTCTCGGATATTTGGATTTGACTGGTGTGAGGCAAAGTGAAAAAGGGATGGGG
GAAATGGAGATGGCACGGGCTCCTCAGAGCGTGGTAGCCGACTTGAGGAAAAGCAGAGGGAATGTGAAAGAAAAT
AAGAGAATCCACGGGATTTGATGCCTGGAAGATTCTCCTTCAAGTGGCAACATGGCATATATATCCTTCTCCGGG
GAGTCACATGCACCATTTGGTTCTTAGATACGTTGATGTTTTGATTTTAAATGATTGTATCAACCTGTAGGTAC
CACAGAAGAGCTGTAGTCATACAATCACATAACTTTTACAAATATAGTGG

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FIGURE 1443

MATKARVMYDFAAEPGNNELTVNEGEIITITNPDVGGWLEGRNIKGERGLVPTDYVEILPSDGKDQFSCGNSVA
DQAFDLSLSASTAQASSAASNHHQVSGNDPWSAWSASKSGNWESSEGWGAQPEGAGAQRNTNTPNNWDTAFGH
PQAYQGPATGDDDDWDEDWDGPKSSSYFKDSEADAGGAQRGNSRASSSSMKIPLNKFFGFAKPGTEQYLLAKQL
AKPKEKIP IIVGDYGPMWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPTNTNRSVNHRYKHFDWLYERLLVK
FGSAIPISLPDKQVTGRFEEEFIKMRMERLQAWMTRMCRHPVISESEVFQQFLNFRDEKEWKTGKRKAERDELA
GVMIFSTMEPEAPDLDLVEIEQKCEAVGKFTKAMDDGVKELLTVGQEHWKRCTGPLPKEYQKIGKALQSLATVFS
SSGYQGETDLNDAITEAGKTYEEIASLVAEQPKDLHFLMECNHEYKGFLGCFPDIIGTHKGAIEKVKESDKLVA
TSKITLQDKQNMVKRVSIMSYALQAEMNHFSNRIYDYNVIRLYLEQQVQFYETIAEKLRLQALS RFPVM

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FIGURE 1444A

CGGGGCCGAGGCGGAGGAGCGGCCGCCGCCGGGGGCCAGCCGGAGCCGCCGCCCTCGCCCTTGCCCTTGCCTG
CGCGGCTCAGAATCACCATCCGCGGCGGGGAGACGAGCCGGCCGTCCCGGGCCGGGGACCCGCCCGCCATGGCC
ACCAAGGCTCGGGTTATGTATGATTTTGCTGCTGAACCTGGAAATAATGAAGTACGGTTAATGAAGGAGAAATC
ATCACAATCACAATCCGGATGTAGGTGGAGGATGGCTGGAAGGAAGAAACATCAAAGGAGAACGAGGGCTGGTT
ACAGACTACGTTGAAATTTACCCAGTGATGGAAGATCAATTTTCTTGTTGGAATTCAGTGGCTGACCAA
TCCTTGATTCTCTCTCAGCCAGCACAGCTCAGGCCAGTTCGTCGGCTGCCAGCAACAATCACCAGGTGGC
CGCAATGACCCCTGGTCAGCCTGGAGTGCCTCCAAATCTGGGAAGTGGGAAAGCTCAGAAGGCTGGGGGGCC
CAGCCAGAGGGGGCTGGAGCCCCAAAGAAACACAAACACTCCCAACAAGTGGGACACTGCCTTCGGCCACCCCCAG
ACCAAGGACCAGCAACTGGTGATGATGATGACTGGGATGAAGACTGGGATGGGCCCAATCCTCTTCCTAC
AAGGATTTCAGAGTCAGCTGATGCAGGCGGCGCTCAGCGAGGAAACAGTCGTGCTAGTTCCTCATCCATGAAA
CCTTAACAAATTTCTGGATTGCGAAACCTGGCACGGAACAGTATTTGTTGGCCAAACAAGTAGCAAAA
AAGAGAAAATTTCCCATCATTGTTGGAGATTATGGCCCAATGTGGGTTTATCCTACCTCTACTTTTGACTGT
GAGTAGCAGATCCCAGGAAAGGCTCCAAATGTATGGTCTAAAGAGCTACATCGAATATCAGCTAACACCTACT
AACACTAATCGATCTGTAAACCACAGGTATAAGCACTTTGACTGGTTATATGAGCGTCTCCTGGTTAAGTTTGGG
TCAGCCATTCCAATCCCTTCTCTTCCAGACAAACAAGTCACAGGCCGCTTTGAAGAGGAATTTATCAAAATGCGC
ATGGAGAGACTTCAGGCCTGGATGACCAGGATGTGTGCCATCCAGTAATCTCAGAAAGTGAAGTTTCCAGCAG
TTCTAAATTTCCGAGATGAGAAGGAATGGAAAAGTGGAAAGAGGAAGGCCGAGAGAGATGAGCTGGCGGGAGTC
ATGATATTTTCCACCATGGAACCAGAGGCACCTGACTTGGACTTAGTAGAAATAGAGCAGAAGTGCAGGCTGTG
GGGAAGTTCACCAAGGCCATGGATGACGGCGTGAAGGAGCTGCTGACGGTGGGGCAGGAGCACTGGAAGCGCTGC
ACGGGCCCATTACCAAGGAATATCAGAAGATAGGAAAGGCCTTGCAAGTTTGGCCACAGTGTTTCAAGTTCCAGT
GGCTATCAAGGTGAAACAGATCTCAATGATGCAATAACAGAAGCAGGAAAGACTTATGAAGAAATTGCCAGTCTC
GTGGCAGAACAGCCAAAGAAAGATCTCCATTTCTGATGGAATGTAATCACGAGTATAAAGGTTTTCTTGGCTGC
TTCCCTGACATCATTGGCACTACAAGGGAGCAATAGAAAAAGTGAAAGAAAGTGACAACTAGTTGCAACAAGT
AAAATCACCTTACAAGACAAACAGAACATGGTGAAGAGAGTCAGCATCATGTCTTACGCGTTGCAAGCTGAGATG
AATCACTTTACAGTAACCGGATCTATGATTACAACAGTGTATCCGCTGTACCTGGAGCAGCAAGTGCAATTT
TAGGAAACGATTGCAGAAAAGCTGAGGCAGGCCCTCAGCCGCTTTCCAGTGATGTAGGACAGAACGGGCCTTGAA
GAGAATGCCGCGTGCTTTCTCTGACTTGGGGCAATGCAATTCAAAACCTTTTTTCCCTATTATTTCAGAAAAAA
AGGAAACAAAACCAAAAAGAAAGAGTTGCAAAAACTGCATTTATTTTATTAGCCACCCTAAATGCGTCAGTTAT
TTAGGGATGGTCTTTTGTTCATTTCCGCATCCATTATTTAAACAGTGGAAATTGTCTCTATTTTGGAAAGTAC
TTAAAAGTTACCAGAATTTTCAATGAAAATGAGGGGTTTCTCCCACTGATATTTTACATAGAGTCATAATTTA
TATGTCTTATAAATTATAAGTCTTATATAATTTATAAGTCTCCCAATCTTCCAGTTCTTACCCAGTGTGAGAT
AATTAATTACTAATTACTTTCTTAAAAACATGAACATATGCCAGAATAAAAAATATCTATGTTTGTATATTTTAT
AACTCCTTTTCACTCCTCTGGGGCTCCTGTGATTGAGGGAAGTCGTTACGCTTTTCACTGCCACAGTTACAGCTCA
AGTGCTTACACTTCAAGAGGGAGGACGCTGGGGGCCCTGGGGTGAAGTGTGCTAGTGCCATCGTGGGTGTGTTGGCAGGT
GGGCCATCCCATGTCCCTCCAGGGGACCCACAGCCTGGCAGATGAGCAGATAACCCCTGGCCACCCATGCTCTCA
GCGACATTTCTGATGTGCTGCTCTTATGTGAGGACCAGTGCTTTCTCTCTTTGCACTTCTTCTAATCTTGGTT
AAGGCATGTTTTATGCCATGAAGAATACATTAGAAGAATTGAGGGACTTTGTAGAGAATTTGTGGCTTTGGTCC
GACGGGTGAGTGGCTGTGCGGAGGCCTGTGTTGCGGAGGGCCTGGGGGAAGGAGGGCACCCAGCACCCCGGCGTC
TCTGGCCCTTTCTTATTCTTTGGCTCCTCATCCACCGTGATGAGAAGCGCTGCTGTGGCCACGGCACACTGCTTG
GCTTGGGTGGCGGGTTTCATGGCCAGTTGGTGTCTATCAGCAAGAGAAAAAGCACAGGTTAGCTCCCCATTAGATG
GAAAGTGTAGGGACTGAGAAGGGCTGCAGCCTCAGCAGTGTACAGAGTCCCCGGCGCTCTGAGGTTGGAGAGAA
AGAACAGACCAGCGCCCTTCTGACTACATCCGAACTTCACACAGGGTGTCTTCTGAGCACCAGCACTTCCAGCG
CTTCACTTAACGGCATAAAGCAAAACAGGACCTTGGCACACCGTCAGCTCGAACTCAACACTGGCAGCCACCGTC
TCACCCCTGCGGAGGAGCGCTCCCGTCTCCACAGGTGCCTTACCGCGTTCCCTCCCGCTGCTTTTCAATTTTTCTG
ACCTTAATAATTACGGGAAATGGAAAGTCTGGGCCAGCATCAATAAAATGACACCAAAAAATAAGTAGATGAAATC
GATTTTTCTTCTATAAAATCCCATAGAACAAATGTTTATGCTATAGCCATTTAATATATGTACAAATTGTAAAGAA
TATGTATAAATGTTTTACACGAATGTAAGAGCATGTAGAAGCCAACATATAAATAAATTGTTTAAAAAACTGTA

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FIGURE 1444B

CAGTAAATTCTCAAATCACTTTTTCAAACACTTTTTGGACTTTGTGTGTGATTTTTGTTGTTGTTGTTAAGTAC
TTTTTATTCCAGCTGCTGAAAATGGTCCAGGTAATGAATTCTTCCCCAAATCCTATTTCTTCTGACATGAATTCA
TCATTTCAAGTTCCGTAGGTCAAGTGTGCGGTCCGGGAAGCGTATCATAACCACCTGGGAAGTTGCCAATGAAGC
AGACAAGTCTCCCAAGTGTCTGACTCICGGATATTTGGATTTGACTGGTGTGAGGCAAAGTGAAAAAGGGATGGGG
GAAATGGAGATGGCACGGGCTCCTCAGAGCGTGGTAGCCGACTTGAGGAAAAGCAGAGGGAATGTGAAAGAAAAT
AAGAGAATCCACGGGATTTGATGCCTGGAAGATTCTCCTTCAAGTGGCAACATGGCATATATATCCTTCTCCGGG
GAGTCACATGCACCATTTGGTTCTTAGATACGTTGATGTTTTGATTTTAAATGATTGTATCAACCTGTAGGTAC
CACAGAAGAGCTGTAGTCATACAATCACATAACTTTTACAAATATAGTGG

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FIGURE 1445

MATKARVMYDFAAEPGNNELTVNEGEIITITNPDVGGGWLEGRNIKGERGLVPTDYVEILPSDGKDQFSCGNSVA
DQAFDLSLSASTAQASSSAASNHHQVGSNDPWSAWSASKSGNWESSEGWGAQPEGAGAQRNTNTPNNWDTAFGH
PQAYQGPATGDDDDWDEDWDGPKSSSYFKDSEADAGGAQRGNSRASSSSMKIPLNKFPGFAPGTEQYLLAKQL
AKPKEKIP IIVGDYGPMWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPTNTNRSVNHRYKHFDWLYERLLVK
FGSAIPISLPDKQVTGRFEEEFIKMRMERLQAWMTRMCRHPVISESEVFQQFLNFRDEKEWKTGKRKAERDELA
GVMIFSTMEPEAPDLDLVEIEQKCEAVGKFTKAMDDGVKELLTVGQEHWKRCTGPLPKEYQKIGKALQSLATVFS
SSGYQGETDLNDAITEAGKTYEEIASLVAEQPKDLHFLMECNHEYKGFLGCFPDIIGTHKGAIEKVKESDKLVA
TSKITLQDKQNMVKRVSIMSYALQAEMNHFSNRIYDYNVIRLYLEQQVQFYETIAEKLRQALS RFPVM

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FIGURE 1446

AGTTCGACACACCATGCGGACTGTCAGCGTGAAGCGTGATCTGCTCTTCCAAGCCCTGGGCCGCACCTACACTGA
CGAAGAATTTGATGAACATATGTTTTGAATTTGGTCTGGAGCTTGATGAAATTACATCTGAGAAGGAAATAATAAG
TAAAGAACAAGGTAATGTAAAGGCAGCAGGAGCCTCTGATGTTGTTCTTTACAAAATTGACGTCCCTGCCAATAG
ATATGATCTCCTGTGTCTGGAAGGATTGGTTCGAGGACTTCAGGTCTTCAAAGAAAGGATAAAGGCTCCAGTGTA
TAAACGGGTAATGCCTGATGGAAAAATCCAGAAATTGATTATCACAGAAGAGACAGCTAAGATACGTCTTTTGC
GGTAGCAGCAGTTCTCCGTAATATAAAGTTTACTAAAGATCGATATGACAGCTTCATTGAACTTCAGGAGAAATT
ACATCAGAATATTTGCAGGAAAAGAGCACTGGTTGCCATTGGTACCCATGATTTGGACACTTGTGCGGGCCCATT
TACTTATACTGCAAAGCGTCCCTTCAGATATCAAATTCAAGCCTCTAAATAAGACCAAGGAGTATACAGCCTGTGA
ACTGATGAACATATACAAGACTGACAATCACCTGAAACATTATTTACATATCATTGAAAACAAACCCCTGTATCC
AGTTATCTATGATAGCAATGGTGTGCTCCTTTCAATGCCTCCCATCATCAATGGGGATCATTCCAGAATAACAGT
AAATACTAGAAAATATTTTTATTGAATGCACGGGAACTGACTTTACTAAGGCAAAAATAGTTCTTGATATTATTGT
CACCATGTTTCAGTGAATATTGTGAGAATCAATTTACGGTCTGAAGCTGCTGAAGTGGTTTTTCTTAATGGAAAATC
ACATACCTTTCCAGAATTAGCTTACCGAAAGGAGATGGTGAGAGCTGACCTAATTAACAAAAAGTTGGAATCAG
AGAACTCCAGAAAATCTTGCCAAACTTCTGACCAGGATGTATTTAAAAATCAGAAAGTCATAGGTGATGGGAATCA
GATTGAGATTGAAATCCCTCCAACCAGAGCTGACATTATCCATGCATGTGATATTGTAGAAGATGCAGCTATTGC
TTATGGATATAACAACATTTCAGATGACTCTCCCGAAAACCTTACACCATAGCTAATCAATTTCTCTTAATAAGCT
CACTGAACTTCTCCGACATGACATGGCAGCCGCTGGCTTCACTGAAGCACTTACCTTTGCCCTGTGCTCCCAAGA
AGATATTGCTGATAAACTAGGTGTGGATATCTCTGCAACAAAGGCAGTCCACATAAGTAATCCTAAAACAGCTGA
ATTTAGGTGGCAGCACTACCTTCTTCCCTGGCCTCCTGAAGACCATAGCAGCAAATCGTAAGATGCCCCCTTCC
ACTGAACTGTTTGAAATCTCTGACATTGTAATAAAAGATTCTAATACAGATGTAGGTGCAAAAACTACAGACA
TCTCTGTGCTGTTTATTACAACAAGAATCCTGGGTTTGAGATCATTCATGGGCTGCTGGACAGAATTATGCAGTT
GCTCGATGTGCCTCCTGGTGAAGACAAGGGGGGATATGTGATCAAAGCATCAGAAGGGCCTGCTTTCTTCCCCGG
GCGATGTGCAGAGATCTTTGCCAGGGTTCAAAGCGTCGGGAAGCTTGGGGTCTTCATCCTGACGTTATCACCAA
ATTTGAGCTGACCATGCCCTGCTCCTCCCTAGAAATCAATATTGGACCCTTTTTGTGAAGATTGGTCTCTGTGGT
GTGATTCTCTTCCAGGTGTCCCTTTCTCCTCCCTAGTGTCTTAAGTCTCCTCCACAGGGAACATCTATTTG
GGCTTTGATGTTTAATAAAGTAGAAAGCACTGTCTGGCTGTGTGGGTAGAGACCATCCTTTCCCTGCATATTAGG
CCAGCTTGTGCCATATACCAGTGTGGTGTCTGTGTGTGAAGCTGCATTGTTGGGTAAAAGCCCCGTGGAGTGCTG
GAGAAATGCACTAGCAGAGTGCAGGATCTGTTCTGAAAGGCAGACGTGCTCCTCAGACATCAGAACATCACATTG
GAACGGATTACTCCTGCATAACAAGATCCCATTTCTTTCTTATTGATAAAACAAGATAATCGATGAGAATTCAT
GTTGCATGAGTTCGAGATAACTGAGGGGTTTAGCTTTGATTTTCTACATTTGACATGTATTTCATCATTGAGAAAC
ACTAAAATAACAATATTTTTAGAAAACGTTTAAGAATCAATTATGGTCCAACAATTATAGCTTCTGAGGTCAGTT
TAAAGTGAAAGAAAAATCTGTAATACAAGGATTCAAATATGTGAGGTGCATAGGTATTTTTTACTCTATCTGT
GATACTCTAAGATAGAGTACATGCAACAAAGATCTGTTCTGCTGTAAGAGTTAAAATGGACAAGTATTGATATCA
ATGCAGTATGAACATTAGGAAAACATGAGAAGCTTATTTTTGCCATAGGCCATACATGTTACTGTAATCAGTCAG
TTATAAAATCATGGTTTTTAATACTTAATTGAGCTACTAGTTTCTCTATTGTCCAGGGAGATATTAGACCTCTC
TTTTTCTGAAGCTAAGCTTCAGCCAATCCTCCTTGTTTTATATCCTAATTTCTTTCTTACTTCAATCTAGAATT
CTCCAGTAGGTACCATCTCTGAAAAAAGCTGGGTCTCATGTTTGAGACAAGTTCCAGGTACTATTGAAGTAAT
AAGAAATATGATAAAATATAATACTTTAAAGTCCAGTAGAAATAGCTAACAAAGGCTGGGTGCGCTGTGGCTCA
TGCTGTAAATCCTAGCACTTTGGGAGGCTGAGGTGGGCAGATCACTTGAGGCCAATAGTTTCGAGATCAGCCTGAC
CAACATGATGAAATGCCATCTCCACTAAAAATATAAAAATTAGCCAGGCATGGTGGTGTGGGCTGCAGTCCCAG
CTACCTGGGAGGCTGAGTCAGGAAAATCTTTGAACCAGGAGGTGGACGTTGCAGTGATCCCAGATTGTGCCACT
GCCCTCCAGCCTGGGTGACAGAGTGAGATTCTGTCTACAAAA

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FIGURE 1447

MPTVSVKRDLLFQALGRITYTDEEFDELCEFEFGLELDEITSEKEIISKEQGNVKAAGASDVVLYKIDVPANRYDLL
CLEGLVRGLQVFKERIKAPVYKRVMPDGKIQKLIITEETAKIRPFAVAAVLRNIKFTKDRYDSFIELQEKLHQNI
CRKRALVAIGTHDLDTLSGPFITYTAKRPSDIKFKPLNKTKEYTACELMNIYKTDNHLKHYLHIENKPLYPVIYD
SNGVVLSPPIINGDHSRITVNTRNIFIECTGTDFTKAKIVLDIIVTMFSEYCENQFTVEAAEVVFPNGKSHTFP
ELAYRKEMVRADLINKKVGIRETPENLAKLLTRMYLKSEVIGDGNQIEIEIPPTRADIHACDIVEDAAIAYGYN
NIQMTLPKTYTIANQFPLNKLTELLRHDMAAAGFTEALTFALCSQEDIADKLGVDISATKAVHISNPKTAEFQVA
RTTLLPGLLKTIAANRKMPPLPLKLFESDIVIKDSNTDVGAKNYRHLCVYYNKNPGFEIIHGLDRIMQLLDVP
PGEDKGGYVIKASEGPAFFPGRCAEIFARVQSVGKLGVLHPDVITKFELTMPCCSLEINIGPFL

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FIGURE 1448

GCTCCGGGAGACTTCCGGCAGGGCGGGCGGGGTCTTGGCGAACGGTCTTCGGAAGCGGCGGGCGCGGATGAC
CACGCTACGGGCCTTTACCTGCGACGACCTGTTCCGCTTCAACAACATTAACTTGGATCCACTTACAGAACTTA
TGGGATTCCCTTTCTACCTACAATACCTCGCCCACTGGCCAGAGTATTTTCATTGTTGCAGAGGCACCTGGTGGAGA
ATTAATGGGTATATTATGGGTAAAGCAGAAGGCTCAGTAGCTAGGGAAGAATGGCACGGGCACGTACAGCTCT
GTCTGTTGCCCCAGAATTTTCGACGCCTTGGTTTGGCTGCTAAACTTATGGAGTTACTAGAGGAGATTTTCAGAAAG
AAAGGGTGGATTTTTTGTGGATCTCTTTGTAAGAGTATCTAACCAAGTTGCAGTTAACATGTACAAGCAGTTGGG
CTACAGTGTATATAGGACGGTCATAGAGTACTATTTCGGCCAGCAACGGGGAGCCTGATGAGGACGCTTATGATAT
GAGGAAAGCACTTTCCAGGGATACTGAGAAGAAATCCATCATACCATACCTCATCCTGTGAGGCCTGAAGACAT
TGAATAAACCTGGGCAGTGGTTCTTAGGCAGATACTCTAGATGCTTTATGGACAATATTATTTTCATTGGATGAT
TCTGGAGCTCTATTAGGAGAAAAGTAATCATTTTTAGGTCTTAAAGACTTCAAGAAAATACAGGTTATCAATTTAT
TTTAAATCTCATTGTTTCCAGTTAGCAATATCATACCTATTAAAGCTGTTTCATTGTAACAAAATTCAATCAAAAA
GGCAGCTAGGTCAGAAGGAAACATACTACTCTCATGGTTCATAGTATTCAGTGTATGTATGCTAGGGAAAAGACT
TGCTCCAGTCTCCTCCTCAGTTCTGTGCCTGAGAACCACTGCTGCATATATTTGTTTTTAAATTTTGTATTGAAC
TGTTAATTGAAGCTTTAAAAGCATATATGAAATGTATAAATCTAAGATGTATAATACATTATTGACTCTAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1449

MTTLRAFTCDDLFRFNNINLDPLTETYGIPFYLQYLAHWPEYFIVAEAPGGELMGYIMGKAEGSVAREEWHGHVT
ALSVAPEFRRLGLAAKLMELLEESERKGGFFVDLFVRVSNQVAVNMYKQLGYSVYRTVIEYYSASNGEPDEDAY
DMRKALSRDTEKKSIIPLPHPVRPEDIE

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FIGURE 1450

ACGCGTCCGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGC
TTTGCCTTTCCAACCTTCAGCTACAGTGTTAGCTAAGTTTGAAAGAAGGAAAAAGAAAATCCCTGGGCCCCCTT
TCTTTTGTTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTTGCCCAAGGCTGTTGTGTTTTTAGAGGTGCTATCTCC
AGTTCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGAGAAGAGCCAGCGG
GGTCGCCTAGTGTCATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCGACTACC
TGACCTCTGCAAAATTCCTTCTCTACCTTGGTCATTCTCTCTCTACTTGGGGAGATCGGATGTGGCACTTTGCGG
TGTCGTGTTTTCTGGTAGAGCTCTATGGAAACAGCCTCCTTTTGACAGCAGTCTACGGGCTGGTGGTGGCAGGGT
CTGTTCTGGTCCTGGGAGCCATCATCGGTGACTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCAGACCTCGC
TGGTGGTACAGAATGTTTTAGTCATCCTGTGTGGAATCATCCTGATGATGGTTTTCTTACATAAACATGAGCTTC
TGACCATGTACCATGGATGGGTTCCTCACTTCCTGCTATATCCTGATCATCACTATTGCAAAATTTGCAAAATTTGG
CCAGTACTGCTACTGCAATCACAATCCAAAGGGATTGGATTGTTGTTGTTGTCAGGAGAAGACAGAAGCAAACCTAG
CAAATATGAATGCCACAATACGAAGGATTGACCAGTTAACCAACATCTTAGCCCCCATGGCTGTTGGCCAGATTA
TGACATTTGGCTCCCCAGTCATCGGCTGTGGCTTTATTTTCGGGATGGAACCTGGTATCCATGTGCGTGGAGTACG
TCCTGCTCTGGAAGGTTTACCAGAAAACCCAGCTCTAGCTGTGAAAGCTGGTCTTAAAGAAGAGGAAACTGAAT
TGAAACAGCTGAATTTACACAAAGATACTGAGCCAAAACCCCTGGAGGGAACCTCATCTAATGGGTGTGAAAGACT
CTAACATCCATGAGCTTGAACATGAGCAAGAGCCTACTTGTGCCTCCAGATGGCTGAGCCCTTCCGTACCTTCC
GAGATGGATGGGTCTCCTACTACAACAGCCTGTGTTTCTGGCTGGCATGGGTCTTGCTTTTCTTTATATGACTG
TCCTGGGCTTTGACTGCATCACCACAGGGTACGCCTACACTCAGGGACTGAGTGGTTCATCCTCAGTATTTTGA
TGGGAGCATCAGCTATAACTGGAATAATGGGAAGTGTAGCTTTTACTTGGCTACGTGCAAAATGTGGTTTTGGTTC
GGACAGGTCTGATCTCAGGATTGGCACAGCTTTCTGTTTGATCTTGTGTGTGATCTCTGTATTTCATGCCTGGAA
GCCCCCTGGACTTGTCCGTTTCTCCTTTTGAAGATATCCGATCAAGGTCATTCAAGGAGAGTCAATTACACCTA
CCAAGATACCTGAAATTACAACCTGAAATATACATGTCTAATGGGTCTAATTCTGCTAATATTGTCCCGGAGACAA
GTCTGTAATCTGTGCCATAATCTCTGTCACTGTCTGTTTGCAGGCGTCATTGCTGCTAGAATCGGTCTTTGGT
CCTTTGATTTAACTGTGACACAGTTGCTGCAAGAAAATGTAATTGAATCTGAAAGAGGCATTATAAATGGTGTAC
AGAACTCCATGAACATCTTCTTGATCTTCTGCATTTTCATCATGGTCATCCTGGCTCCAAATCCTGAAGCTTTTG
GCTTGCTCGTATTGATTTAGTCTCCTTTGTGGCAATGGGCCACATTATGTATTTCCGATTTGCCCAAAATACTC
TGGGAAACAAGCTCTTTGCTTGGGTCCTGATGCAAAAGAAGTTAGGAAGGAAAATCAAGCAAATACATCTGTTG
TTTGAGACAGTTTAACTGTTGCTATCCTGTTACTAGATTATATAGAGCACATGTGCTTATTTTGTACTGCAGAA
TCCAATAAATGGCTGGGTGTTTTGCTCTGTTTTTACCACAGCTGTGCCTTGAGAACTAAAAGCTGTTTAGGAAAC
CTAAGTCAGCAGAAATTAAGTATTAATTTCCCTTATGTTGAGGCATGGAAAAAAATTTGAAAAAGAAAAACTCA
GTTTAAATACGGAGACTATAATGATAACACTGAATTTCCCTTATTTCTCATGAGTAGATACAATCTTACGTAAAG
AGTGGTTAGTCACGTGAATTCAGTTATCATTGACAGATTCTTATCTGTACTAGAATTCAGATATGTCAGTTTTT
TGCAAAACTCACTCTTGTTCAAGACTAGCTAATTTATTTTTTTGCATCTTAGTTATTTTTTAAAAACAAATCTTC
AAGTATGAAGACTAAATTTTGATAACTAATATTATCCTTATTGATCCTATTGATCTTAAGGTATTTACATGTATG
TGGAAAAACAAACACTTAAGTGAATTTCTAATAAGGTTTATGGTTTAGCTTAAAGAGCACCTTTGTATTTTT
ATTATCAGATGGGGCAACATATTGTATGAAGCATATGTAGCACTTCACAGCATGGTTATCATGTAAGCTGCAGGT
AGAAGCAAAGCTGTAAAGTAGATTATCACACAATGACTGCATACAGACTTCAAATATGTCAATAGTTTGGTCAT
AGAACCTAGAAGCCAAAAGCCACACAGAAGGCAAGAATCCCAATTTAACTCATGTTATCATCATTAGTGATCTG
TGTTGTAGAACATGAGGGTGTAAGCCTTCAGCCTGGCAAGTTACATGTAGAAAGCCACACTTGTGAAGGTTTTG
TTTTACAAATCACTTGATTTAACACACTCAGGTAGAATATTTTTATTTTTTACTGTTTTATACCCAGAAGTTATTT
CTACATTGTTCTACAGCAAGAATATTCATAAAAGTATCCCTTTCAAATGCCTTTGAGAAGAATAGAAGAAAAAA
GTTTGTATATATTTTAAAAAATGTTTTAAAGTCAGTTTGCAACATGTCTGTACCAAGATGGTACTTTGCCTTA
ACCGTTTATATGCACTTTCATGGAGACTGCAATACGTTGCTATGAGCACTTCTTTATCCTTGGAGTTTAACTCT
TTGCTTCATCTTTCTACAGTATGACATAATGATTGCTATGTTGTAAAATCTTTGTAAAAAATTTCTATATAAAA
ATATTTTGAAAAATCTTAAAAAATAAAAAAAAAA

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FIGURE 1451

MTRAGDHNRRQGCCGSLADYLTSAKFLLYLGHSLSTWGDRMWHFAVSVFLVELYGNLLLLTAVYGLVVAGSVLVL
GAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHELLTMYHGWVLTSCYILIITIANIANLASTAT
AITIQRDWIVVVAGEDRSKLANMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISGWNLVSMCVEYVLLWK
VYQKTPALAVKAGLKEEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQEPTCASQMAEPFRTRDGVV
SYYNQPVFLAGMGLAFLYMTVLGFDCITTGYAYTQGLSGSILSILMGASAITGIMGTVAFTWLRKCGLVRTGLI
SGLAQLSCLILCVISVFMPGSPDLDSVSPFEDIRSRFIQGESITPTKIPEITTEIYMSNGSNSANIVPETSPEV
PIISVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGIINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVL
ISVSFVAMGHIMYFRFAQNTLGNKLFACGPDAKEVRKENQANTSVV

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FIGURE 1452

GGAACAAAAGCTGGAGCTCCACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCGGGCTGCAGGAATTCGG
CACGAGCAGAAGAGGGGGCTAGCTAGCTGTCTCTGCGGACCAGGGGAGACCCCGCGCCCCCGGTGTGAGGCGG
CCTCACAGGGCCGGGTGGGCTGGCGAGCCGACGCGGCGGCGGAGGAGGCTGTGAGGAGTGTGTGGAACAGGACCC
GGGACAGAGGAACCATGGCTCCGCAGAACCTGAGCACCTTTTGCCTGTTGCTGCTATACCTCATCGGGGCGGTGA
TTGCCGGACGAGATTTCTATAAGATCTTGGGGGTGCCTCGAAGTGCCTCTATAAAGGATATTAAAAAGGCCTATA
GGAACTAGCCCTGCAGCTTCATCCCGACCGGAACCTGATGATCCACAAGCCCAGGAGAAATTCAGGATCTGG
GTGCTGCTTATGAGGTTCTGTCTAGATAGTGAGAAACGGAAACAGTACGATACTTATGGTGAAGAAGGATTAAAG
ATGGTCATCAGAGCTCCCATGGAGACATTTTTTACACTTCTTTGGGGATTTTGGTTTCATGTTTGGAGGAACCC
CTCGTCAGCAAGACAGAAATATTCCAAGAGGAAGTGATATTATTGTAGATCTAGAAGTCACTTTGGAAGAAGTAT
ATGCAGGAAATTTTGTGGAAGTAGTTAGAAACAAACCTGTGGCAAGGCAGGCTCCTGGCAAACGGAAGTGCAATT
GTCGGCAAGAGATGCGGACCACCCAGCTGGGGCCCTGGGCGCTTCCAAATGACCCAGGAGGTGGTCTGCGACGAAT
GCCCTAATGTCAAACCTAGTGAATGAAGAACGAACGCTGGAAGTAGAAATAGAGCCTGGGGTGAGAGACGGCATGG
AGTACCCCTTTATTGGAGAAGGTGAGCCTCACGTGGATGGGGAGCCTGGAGATTTACGGTTCCGAATCAAAGTTG
TCAAGCACCCAATATTTGAAAAGGAGAGGAGATGATTGTACACAAATGTGACAATCTCATTAGTTGAGTCACTGG
TTGGCTTTGAGATGGATATTACTCACTTGGATGGTCACAAGGTACATATTTCCCGGGATAAGATCACCAGGCCAG
GAGCGAAGCTATGGAAGAAAGGGGAAGGGCTCCCCAACTTTGACAACAACAATATCAAGGGCTCTTTGATAATCA
CTTTTGATGTGGATTTTCCAAAAGAACAGTTAACAGAGGAAGCGAGAGAAGGTATCAAACAGCTACTGAAACAAG
GGTCAGTGCAGAAGGTATACAATGGACTGCAAGGATATTGAGAGTGAATAAAATTGGACTTTGTTTAAATAAGT
GAATAAGCGATATTTATTATCTGCAAGGTTTTTTTTGTGTGTGTTTTTGTTTTTATTTTCAATATGCAAGTTAGGC
TTAATTTTTTTTATCTAATGATCATCATGAAATGAATAAGAGGGCTTAAGAATTTGTCCATTTGCATTTCGGAAAAG
AATGACCAGCAAAGGTTTACTAATACGTCTCCCTTTGGGGATTTAATGTCTGGTGCTGCCGCCTGAGTTTCAAG
AATTAAAGCTGCAAGAGGACTCCAGGAGCAAAGAAACACAATATAGAGGGTTGGAGTTGTTAGCAATTTCAATC
AAAATGCCAACTGGAGAAGTCTGTTTTTAAATACATTTTGTGTTATTTTT

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FIGURE 1453

MAPQNLSTFCLLLLYLIGAVIAGRDFYKILGVPRSASIKDIKKAYRKLALQLHPDRNPDDPQAQEKFDLGAAYE
VLSDSEKRRQYDTYGEEGLKDGHQSSHGDIFSHFFGDFGFMFGGTPRQQDRNIPRGSDIIVDLEVTLEEVYAGNF
VEVVRNKPVARQAPGKRKCNCRQEMRTTQLGPGRFQMTQEVVDECPCNVKLVNEERTLEVEIEPGVRDGMETPFI
GEGEPHVDGEPGDLRFRIKVVKHPIFERRGDDLYTNVTISLVESLVGFEMDITHLDGHKVHISRDKITRPGAKLW
KKGEGLPNFDNNNIKGSIIITFDVDFPKEQLTEEAREGIKQLLKQGSVQKVYNGLQGY

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FIGURE 1454A

GCGCGAGTTGCTGCTAACGCTCCTCCTCCAGCTTCCCACCCCGCCGCCGCGCGGCCGGTACCAACGGGTGG
TCTCGCCGAGGGAGCTGTCTGCTCGTGGTCCCAGGACTGCAGTGGTGTGCGCTCTCGGCGCGTGGCGCTAGGC
ATGGCGATGGATCAAGTAAACGCGCTGTGCGAGCAGCTGGTGAAAGCGGTGACGGTCATGATGGACCCCACTCC
ACCCAGCGCTACCGGCTGGAAGCCCTCAAGTTTTGTGAGGAGTTTAAAGAAAAGTGTCTATCTGTGTCCCTGT
GGCTTGAGGTTGGCTGAGAAAACACAAGTTGCCATCGTCAGACATTTTGGCCTTCAGATCCTGGAACACGTTGTC
AAGTTTCGGTGGAACGGCATGTCTCGATTGGAGAAGGTGTATCTGAAGAACAGTGTGATGGAGCTGATTGCAAAT
GGAACATTGAACATTTTGAAGAGGAGAAACCATATTAAAGATGCTCTGTCTCGAATTGTAGTGGAATGATCAAG
CGAGAGTGGCCACAGCATTGGCCTGACATGCTAATAGAATTGGACACTCTTTCCAAACAAGGGGAAACACAGACA
GAATTGGTGATGTTTATCCTTTTGCGACTGGCAGAGGATGTAGTGACTTTTCAGACACTTCCCCCTCAAAGAAGA
AGGGACATCCAGCAAACATTAAACCAGAACATGGAAAGGATCTTCAGTTTTCTGCTTAACACACTTCAAGAAAAT
GTAAACAAGTATCAGCAAGTGAAACAGATACTTCTCAGGAGTCAAAGGCGCAAGCAAAGTGTGAGTAGGAGTT
GCAGCACTGAATACTCTAGCAGGCTATATTGACTGGGTGTCTATGAGTCACATCACTGCTGAAAACGTGTAACCTC
CTGGAGATACTGTGTTTGTGTTGAATGAACAGGAACCTTCAGTTGGGAGCCGCTGAGTGTCTTCTCATTGCAGTC
AGCAGAAAAGGCAAGTTGGAAGACCGGAAGCCCTTGATGGTCTTATTTGGAGATGTTGCCATGCATTATATACTC
TCCGCCGCACAGACTGCTGATGGAGGAGGTTTGGTAGAAAAACACTACGTCTTTCTGAAGAGGCTCTGTCAGGTG
TTGTGTGCGCTGGGCAATCAGCTGTGTGCATTGCTGGGTGCAGATTCTGATGTAGAAACACCATCAAACCTTGGGA
AAATACCTGGAATCTTTTCTTGCTTTTACAACCCATCCAAGTCAGTTTCTACGCTCTTCAACTCAGATGACTTGG
GGAGCCCTCTTCAGGCATGAAATCCTGTCCCGTGATCCTTTGCTATTAGCAATAATACCAAATATCTTCGTGCT
TCCATGACTAACTTGGTCAAGATGGGCTTTTCTTCTAAAACAGACAGCCCTAGCTGTGAATATTCTCGGTTTGAT
TTTGATAGCGATGAGGACTTCAATGCTTTTCTTCAACTCCTCCCCGAGCACAAACAAGGAGAGGTGATGAGGTTGGCA
TGTCGTTTGGATCCCAAACTAGCTTCCAGATGGCTGGGGAGTGGCTAAAGTATCAACTATCAACTTTTTCTTGAT
GCTGGTTCTGTGAATTCTTGTCTGAGTTGGAAGTGGAGAAGGAAGCCTCTGTTCCGCTTCTCTACCTTCATTCT
GTGCAGTGGGAAGCCATGACTCTTTTTTTGGAAAGTGTATACCCAGATGTTTCGAACACTAAATAGAGAAGAA
ATTCTGTTAATGATGGAATAGAGCTATTGCAGATGGTTCTGAACTTTGATACCAAGGATCCCTCATCTGTCC
TGCGTCTTACTAATGTCTCTGCACTCTTTCCATTTGTACCTACAGACCAGAGTTCCTGCCCCAGGTCTTCTCT
AAGCTATTTTCTATCTGTCACTTTTGAAGTGTGAAAGTAAGGCCCCCAGAACCCGGGCAGTGAGGAATGTG
AGGAGGCATGCTTGTCTCTCATCATCAAGATGTGTGCTGACTACCCCGAGCTTGTGCTGCCCAATTTTGACATG
CTTTATAACCATGTGAAGCAACTCCTCTCCAATGAGCTACTCTGACACAAATGGAGAAGTGTGCCCTCATGGAA
GCCCTGGTTCTCATTAGCAACCAATTTAAGAACTACGAGCGTCAGAAGGTGTTCTAGAGGAGCTGATGGACCA
GTGGCCAGCATCTGGCTTTCTCAAGACATGCACAGAGTGTGTCAGATGTTGATGCTTTTATTGTGTATGTGGGT
ACAGATCAGAAGAGCTGTGACCCAGGCTGGAGGATCCGTGTGGCTTAAACCGTGCACGAATGAGCTTTTGTGTA
TACAGCATTCTGGGTGTGGTGAAACGAACCTGTGTTGGCCCACTGACCTAGAAGAGGCCAAAGCTGGGGGATTGTG
GTGGGTTATACATCCAGTGGAATCCAATCTTCCGTAAACCCCTGCACAGAGCAGATTCTGAACTTCTTGACAAAT
TTGCTTGCGCTTATAAGAACCCACAATACATTATATGCACCAGAAATGCTAGCCAAATGGCAGAGCCTTTCACC
AAGGCTCTGGATATGCTTGACGCGGAAAAATCTGCTATATTAGGATTACCTCAACCTCTCTTGGAACCTCAATGAC
TCTCCTGTCTTCAAAACCGTCTTGGAAGAATGCAGCGTTTCTTCTCTACCCTCTATGAAAACCTGTTTTCATATC
CTAGGGAAGGCAGGCCCTTCCATGCAGCAAGACTTCTATACTGTGGAGGACCTTGCTACCCAGCTTCTCAGCTCA
GCCTTTGTCAACTTGAACAATATTCTGACTACCGACTCAGACCCATGCTTCGTGTCTTTGTAAAGCCTCTGGTG
CTCTTCTGTCCCCAGAGCACTATGAAGCCCTGGTATCCCCCATCCTCGGACCTCTTTTACCTACCTCCATATG
AGGCTTTCTCAGAAATGGCAAGTTATCAACCAAGGAGCCTGCTGTGTGGAGAAGATGAGGCTGCAGATGAAAAC
CCAGAGTCTCAAGAGATGCTGGAGGAGCAACTGGTGAGGATGTTAACCCGAGAAGTCATGGACCTAATCACGGTT
TGCTGTGTTTCAAAGAAGGGTGCTGACCACAGTAGTGCTCCCCAGCAGATGGAGACGATGAAGAAATGATGGCC
ACAGAGGTCACCCCTCAGCTATGGCAGAGCTTACAGACCTGGGCAATGTCTGATGAAGCATGAGGATGTTTGT
ACAGCGCTATTAATTACAGCCTTCAATTCCTGGCCTGGAAAGATACTCTGTCTGCCAGAGGACAACCTCACAG
CTCTGCTGGCCTCTCCTCAAACAAGTGTGTGCTGAGGACACTGCTCGCAGATGCAGTTACGTGGCTTTTCACCAGT
GTGCTGAAAGGCTTACAGATGCACGGGCAGCACGAGGCTGCATGGCTTCCCTGGTCCATCTGGCCTTCCAGATA
TACGAGGCACTGCGCCCCAGGTACCTGGAGATAAGAGCTGTAATGGAGCAAATCCCTGAAATACAGAAGGACTCA
CTGGACCAGTTTACTGCAAGCTTTTAAACCCCTCCCTGCAGAAAGTGGCTGACAAGCGCCGAAAGGACCAATTC

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FIGURE 1454B

AAACGCCTCATTGCTGGTTGCATTGGGAAACCCTTGGGAGAGCAGTTCCGAAAAGAAGTTCACATTAAGAATCTT
CCCTCACTTTTCAAAAAACAAAGCCAATGCTGGAGACGGAGGTGCTGGACAATGATGGGGGTGGCCTGGCCACC
ATCTTTGAACCCCTGAATCAAGCTTTTGGGCATCCTTCCTCGGCCTTTCTTGTATCTCTTCTTTCCCTTTGTAGC
CGATCTCTAGGCCCTTCTTGCACTGCCACCTCACTTTCCACCCTGTGAGCCTGGAAAGAGATCCAGGTCTGGAG
AGAGAACAGGCCCTGTGCAGGACCAGAAGTAATTATACTAAAGTATCAAGAAAGGGAGTTAGGGCTTAAAC
CTGTCTAGATGTCCAGATAGTTCCCATTTCTACTTGGAGATTTGGCTTTTCCAAGAAAAGCTAGAGCAGAG
CCTTCTCCCAAGCCCTCCCACCCCGTGCAGCCACATACCTGTACAGAATGGTAACCTAAGGGTGCTGTG
CCAACCTGCGACTAGCAAGGCTCGCAGCAAGAGCACAGCCCTCACTACTTGTGCCAGAGTTTCTCTTGGACC
CAACTCCCCTGAGCCCTTTTGTGCTGGGCTGGCAGGAACTTTCCCACTCCCTAAGGGGCATGTCTGG
AGGTGCTAAGTGCTGAAGAGAACTTGGTCAGTTCTCTCAACTTTGCTTTGGGCAAGAATCTGGTCACCTGAT
TCCATGGTACAGGCTACTGCTAACTTGGCACAGTATCAAGTATAGTACCTCCAAGGACCAGGGCTGGGAA
TTAGTGCTAACATCCCTTTAGAGTTTACAATCTTGGCCTTCCATGAATGACCCCTCAGTCTGGCCTCCC
CCTCAAGGTCCACTCAGGCACAAGAGCCACAGTACCCTAGATAGTGTACATGACACCGTTGTATCCAAGG
AATACAGACCAACTAGGCTACATCTGTGATGAGCAGCTAGCAAAGCCGCTGGTCTTCTCCTAGGACTAAGTCC
AGGTGCCTTCCACAATCTCATGGTCTTTCAGGTCCCTGGTTACTTTTCTCAAAGGCCATTTCCAAAAGAATACAT
GCCTTACATCACAACTGTACTGTGAGTCCATTCTAGAGGTCACTGAAAGGCCCTGTAAAGAGAGGACATGGAT
ACGGGACCTGGCCCTGAGGTTATTACTGGCCGTAAGGCAGAGTTAATCCATACAGAAACCAGTGTGTCCATGTGC
TCTGCACAAAAACAGACCTGTTGTCCATCCAGTCCACTGACAAGAGGGTTTCCCGAGAGCCGAAGTGGACTGAA
GCTACAGTTTTTAGCTGGTGCAGGCCACAGGCAGGGTCAGATTGAGAAGAAGCAAAGCTGGGGAAGCAGAAGTTG
GGAGTCTTGTGTTGCTCCCTCTTCTGTGTGGTGTCTGGGTTTCTGTGGATCGTGAAGGCGATCTCAAGAGTGT
TTCCCTCCAAACCTGATAGCTGCCTATTCTGTCTGGTTGGGGCTGTGGAGGATGTAGTTGTATTTATTGCATTG
TAATATTTTTAACATCCTGTGACTTCATGCTAGAAATTTCTATTGTTTATAGAACTTTTTGTAGAAACATTAA
CTCTAAAGCACATCTGCATGTGAGTAAATCTCAGTTTCGTACAG

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FIGURE 1455

ENHIKDALSRIVVEMIKREWPQHWPDMLELDTL SKOGETQTELVMFILLRLAEDVVTFTLPPQRRRDIQOTLT
QNMERIFSFLNLTQENVNKYQQVKTDTSQESKAQANCRVGVAAALNTLAGYIDWVSM SHITAENCKLLEILCLLL
NEQELQLGAAECLLIAVSRKGKLED RKPLMVLF GDVAMHYILSAAQTADGGGLVEKHVFLKRLCQVLCALGNQL
CALLGADSDVETPSNFGKYLESF LAFTTHPSQFLRSSTQMTWGALFRHEILSRDPLLLAIIPKYLRASMTNLVKM
GFPSKTDSPSCEYSRFDFDSDEDFNAFFNSSRAQQGEVMRLACRLDPKTSFQ MAGEWLKYQLSTFLDAGSVNSCS
AVGTGEGSLCSVFSFVQWEAMTLFLESVITQMFRTILNREEIPVNDGIELLQMVLNFDTKDPLILSCVLTNVSA
LFPFVTYRPEFLPQVFSKLFSSVTFETVEESKAPRTRAVRNVRRHACSSIIKMC RDYPQLVLPNFDMLYNHV KQL
LSNELLLTQMEKCALMEALVLISNQFKNYERQKVFL EELMAPVASIWLSQDMHRVLSDVDAFIAYVGT DQKSCDP
GLEDPCGLNRARMSFCVYSILGVVKRTCWPTDLEEAKAGGFVVGYTSSGNPIFRNPCTEQILKLLDNLLALIRTH
NTLYAPEMLAKMAEPFTKALDMLDAEKSAI LGLPQPLLELNDSPVFKTVLERMQRFFSTLYENC FHILGKAGPSM
QQDFYTVEDLATQLLSSAFVNLNNIPDYRLRPM LRVFVKPLVLF CPPEHYEALVSPILGPLFTY LHMRLS QKWQV
INQRSLLCGEDEAADENPESQEMLEEQLVRMLTREVMDLITVCCVSKKGADHSSAPPADGDDEEMMATEVTP SAM
AELTDLGKCLMKHEDVCTALLITAFNSLAWKDTL SCQRTTSQLCWPLLKQVLSGTLLADAVTWLFTSVL KGLQMH
GQHDGCMASLVHLAFQIYEALRPRYLEIRAVMEQI PEIQKDSL DQFDCKLLNPSLQKVADKRRKDQFKRLIAGCI
GKPLGEQFRKEVHIKNLPSLFKKT KPMLETEVLDNDGGGLATIFEP

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FIGURE 1456

GCACGAGGCCGTGGAGGCGCCACGTCCCTTGCGGCGGCGGGAGAGAAATCGCTTGGACTTCGGGGCGGCCTCGGA
CGGCCATGGCCTTTACCCTGTACTCACTGCTGCAGGCAGCCCTGCTCTGCGTCAACGCCATCGCAGTGCTGCACG
AGGAGCGATTCCCTCAAGAACATTGGCTGGGGAACAGACCAGGGAATTGGTGGATTGGGAGAAGAGCCGGAATT
AATCACAGCTAATGAACCTTATTCGATCTGTAAGAACCGTGATGAGAGTGCCATTGATAATAGTAACTCAATTG
CAATTGTGTACTTTTATTATTGGATGAATATCAGTGGAGAAAATGGAGACTCAGAAGAGGACATGCCAGTAGA
AGTTATTACTTTGGTCATTATTGGAATATTTATATCTTAGCTTGGCTGACCTTGCACTTGTCAAAAATGTAAAGC
TGAAAATAAAACCAGGGTTTCTATTTATCTGTTTTTTTTTAAATGTTGCACTTGTAGTTTCATTACAAAAGATC
AGATCATGAAAGGCAGTAACCTCTCCAGGACTGGAATATCTGATTGCTCAGTGTTAATAGTAGTTCATGCTGTGGT
GAGATTGTTAAAAGGGTGCAAGACTGTTGCTTCTCTTTTTTTAGATATTTTCTATCTCTCACTTCTCAGGGATG
AAATTCTTTTCAAAGTTTTGAAGTTCCTTGCAACTTAGCCATGATGTGAGTGGTTATCCCTAGATAAAATTAAA
AGGATTTTTTAAAAGTAATTACTGCACATAAAATGATAAATAGGTAATTTGAATAATTTTATTTTAAGCTCCTTG
GTTAATTATTTTGTCTATTGTCTCAGCTATAAATTCAAATTTATACATACTATTGAGTATTAATATTCTCTGATT
TCAGGGAGAATTCTGTCAGTCACATGATGATTATGTTTTTGTTTAACAATCTTTCCATGCACTTGTTATTTTAT
TAATTTGCCTGAATGATGAGACCAGACCAGTGTCTACAGATTTTCATTGTCAGAAAAATCTATAAGTCTGCCCTT
TTTACAATGATGATTTAAAAAAAACAACAGCGTAAATATTAGCCCACAAGAGCAGTCCTAAACAATCACAATTAC
ACTGTACTACCCAAGAAGACTGTTTATTGTGAAGCATTTACCTTTCAAAAAATCATTACATTTCTATTTCTTGGT
GGAGCAGCACATTGTGGAGTGTGATTCTTAATTCCTTCATTGAGTTTGTCAATAGGACATTGATGCTGGATAGGTT
GTCTTTTGTTTTTATGTCTCAGACCATCTTGTGAGATTGTTTGCCTATCTCATAATACAGTTTTATGCAGAAAGG
TTGAACTATGTAAATGGTTTTTATGGAAATTATCAGTTACAATATTTTAAAGGTGTAGAATGGCATCTTTGTTT
ATAGGAGAACATTTGTAAATAAAGTTAAATTTCTAAGCCTTTAAATATTGTAACCTGATAATTTCCATAAAAAACC
ATTTACATAGTTTCAACCTTTCTGCATAAACTGTATTATGAGATAGGCAAACAATCTCACAAGATGGTCTGAGA
CATAAAAA

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FIGURE 1457

MAFTLYSLLQAALLCVNAIAVLHEERFLKNIGWGTDQGIGGFGEPPGIKSQLMNLI RSVRTVMRVPLIIVNSIAI
VLLLLFG

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FIGURE 1458

GTCTGTAATCCGTGTCTCCAGTAGTAGCTGCAGTGAAGTATCGGTGTTCCCTATTATGTTAGCTTATGTCT
ATGGCGTAGTTCCAATTTCTCTTTGTCTGAAGCGGAGGTTGTGGAGTCTCAGCAGGCAATGGAAAAGGAGTTAGGA
TTGAATTTGATGATGAAAAATGATATAAATGTTGGTGGAACTAACACAGCTGTAGACACAACATCAGTAGCAGAAG
CAAGACACAACCCAAGCATAGGGGAGGGAAGTGTGGTGGGCTGACTGGCAGTTTGTAGTGAAGTGGAGCCACA
TGGATCGAATAGGAGCCATCCGAGACAACCTGAGTGAAACGGCCAGCACCATGGCACTAGCTGGAGCCAGTATAA
CGGGGAGTCTGTCTAGGAAGTGCCATGGTAAACTGTTTTAACAGGTTGGAAGTACAAGCAGATGTACAGAAAGAAC
GGTACAGTCTAAGTGGAGAATCTGGCACAGTCAGCTTGGGAACAGTTAGTGATAATGCCAGCACCAAAGCAATGG
CAGGATCCATTCTGAATTCCTACATCCCATTTGGACAAAGAAGGCAACAGTATGGAGGTGCAAGTAGATATTGAGT
CAAAGCCATCCAAATTCAGGCACAACAGTGGAAGCAGTAGTGTGGATGATGGCAGTGCCACCCGAAGTCATGCTG
GCGGTTTCATCCAGTGGCTTGCCTGAAGGTAAATCTAGTGCCACCAAGTGGTCCAAAGAAGCAACAGCAGGGAAAA
AATCAAAAAAGTGGTAAACTGAGGAAAAAGGGTAACATGAAGATAAATGAGACGAGAGAGGACATGGATGCACAGT
TGTTAGAACAACAAAGCACGAACCTCAAGTGAATTTGAGGCTCCATCCCTCAGTGACAGTATGCCTTCTGTAGCAG
ATTCTCACTCTAGTCATTTTTCTGAATTTAGTTGTTCTGACCTAGAAAAGCATGAAAACCTTCTGTAGTCATGGTT
CCAGTGATTATCACACCCGCTTTGCTACTGTTAACATTCTTCTGAGGTAGAAAATGACCGTCTGGAAAATTCCC
CACATCAGTGTAGCATTCTGTGGTTACCCAAACTGCTTCTGTTTCAGAAAGTTTCACAGTTGAATCATATTGCTG
AAGAACATGGTAACAATGGAATAAAACCTAATGTTGATTATATTTTGGCGATGCACTAAAAGAAACAAATAACA
ACCACTCACATCAGACAATGGAATTAAGGTTGCAATTCAGACTGAAATTTAGGCCCATAAATGCTGCAGAATAA
TTACCACTGTACAACCGTGTGGAGCTGGTTGAACTACATGTGACTACTTAAGTTTCAGGTTACCAGCAAAAGC
CGGGTTTCATTATCATAATGCAGATACATTTCTGTGTTTCAGCAAGGCATTGTGTGTATGTGGATCTTAGTTAC
CAAATATGAAGTGAAGGCTTTAAAAGTGCATTATTTAAGGATAATAAATTTGAAGAGCAAAGCATGTTTTGTG
TGTTTGCCACAAAACATTGCTTGAAGCACATACTTAGATAGAAATGGTCTTAATTTATATAATCAATATAAAAT
ACTAATGCAATTCTACAGCATTCAAATGAAGAAAACCTGAGGCTTTAGGGATAAGTGGTTAGTGATATTTTATTG
AAACCACTAAAGAGATAAGTTTAAAAGAACTGCATAGGTTACTCTCAGTATATGATACTCTGTAAACATTTCTATT
TATATCGGCATAAATTTCAATTTTTTTCTTCATATGCAATGTGGTTATATAAAGCTTAATGCAGCTCATTGCTA
CCATTTGGATACTTAGACACTTTGAGCAAGATTGTGGCAGTTTTTGACAACCTTTGAAATAGAAATACCTGGTAC
TCTATCTTGTTTATTGTTGATGCCATCTTAGAGGAAAAAATGTAAAGGTAAGTAATTAAGCATATGACAGCAACA
AATAAGATACATAAAACTACAAAATAAAGTCCCATTAGGTTATAAGTATTACAAAAATCCACCTTTCTCTAAGG
GGAAGTTTGTAACCCATTGATTCTTGGTGCCTTTGGGATCGACTGGGTTTTAATGGCCTAGTTATTTGAGGATTT
TGCTGTGTTGTTTTCCATGTCTTCTCTGGTCACCTTGGATTATATATAAAAATACAGGAAATAGGTAAACATGAA
TGTGATTAATAATGCTGAAAAAGTATTAGCCTACCAAAGACACACTCAGGCTTTAGTGAATAACTTTACATAACC
TCAGTTTTTAACACATGCATATCTTCTCAACCATGAAATCAAAGCACGGTGCAGAACTTGTACCAAGTACAAAA
GGTCCATGTATGATTAGCATTATTTCTTTGCTTTTGTGTTATGGACAATGTTTCAGCTGACATAAGCAGAAGTGT
GCCAAAATACTGCCTGTACTGTAAATTTCTGTATAATTCCTTAATAAAAGCAGGTTAACCTCAAAAAAAAAA
AAAAAAA

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FIGURE 1459

MLAYVYGVVPI SLCRSGGCGVSAGNGKGVRIEFDDENDINVGGTNTAVD TT SVAEARHNPSIGEGSVGGLTGSL S
ASGSHMDRIGAIRDNLSETASTMALAGASITGSLSGSAMVNCFNRLVQADVQKERYSLSGESGTVSLGTVSDNA
STKAMAGSILNSYIPLDKEGNSMEVQVDIESKPSKFRHNSGSSSVDDGSATRSHAGGSSSGLPEGKSSATKWSKE
ATAGKKSKSGKLRKKGNMKINETREDMDAQLLEQQSTNSSEFEAPSLSDSMPSVADSHSSHFEFSCSDLESMKT
SCSHGSSDYHTRFATVNILPEVENDRL ENSPHQCSISVVTQTASCSEVSQ LNHIAEEHGNNGIKPNVDLYFGDAL
KETNNNHSHTMELKVAIQTEI

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FIGURE 1460

GGCACGAGCGGCACGAGCGGAGGGCGCCTCGCGGCAGGAGCGGGATTTCGGGGTCACGGGAACCGGCAGGGGAA
CGGGATAAAGTTCCCGGAGAAAGGAAAGGAGAGCGTGGGATAGTAAAAGAGAAGACGCGGAGAAGAGGAGAGGAC
CTACAAGAACGGAGGACAGGGGCGCACGATGGTCCCGGGGGAGCGGAAACAAAGGCACGCAAAACGGAAAAGCG
TGTGTAGGGGAGCGGAAAAGGAAGTCACCACCGTGGCCTGCGACGAAATGGCGAAAAGTCTTTTGAAGACAGCCT
TGTCTGGAAGGACAAAATTGCTACATCAAACAGGATTGTCACCTTTATAGTACATCCCATGGATTATATGAGG
AAGTGAAAAAAACACTTCAGCAGTTTCCTGGTGGATCCATTGACCTTCAGAAGGAAGACAATGGCATTGGCA
TACTCTGAACAATCCAAGTAGAATGAATGCCTTTTCAGGTGTTATGATGCTACAACCTCTGGAAAAAGTAA
TGAATTGGAAAATTGGACAGAGGGGAAAGGCCTCATTGTCCGTGGGGCAAAAAATACTTTCTCTTCAGGATCTG
TGAATGCTGTGAAAATCACCATAGGAATCTCCAGAGGAGACTTCCTTTAATAAGTGTGCGCTGGTTCAAG
GGGCATTGGGTGGAGGAGCAGAATTTACTACAGCATGTGATTTTCAGGTTAATGACTCCAGAGAGTAAGATCA
CGTCCACAAAGAGATGGGCATAATACCAAGCTGGGGTGGCACCACCGGCTAGTTGAAATAATCGGAAGTA
AAGCTCTCAAAGTGTGAGTGGGGCCCTTAACTGGATTCAAAAAATGCTCTAAACATAGGAATGGTTGAAG
CTTTCAGTCTTCAGATGAACTAAATCTCTAGAAGAGGCACAAGAATGGCTAAAGCAATTCATCCAAGGGC
ACCGGAAGTAATTAGAGCTTTGAAAAATCTGTTTGTTCAGGCAGAGAGCTATATTTGGAGGAAGCATTACAGA
ACGAAAGAGATCTTTTAGGAACAGTTTGGGGTGGGCCTGCAAAATTTAGAGGCTATTGCTAAGAAAGGAAAATTTA
ATAAATAATTGGTTTTTCGTGTGGATGTACTCCAAGTAAAGCTCCAGTGACTAATATGTATAAATGTTAAATGAT
ATTAAATATGAACATCAGTTAAAAAAAATTCTTTAAGGCTACTATTAATATGCAGACTTACTTTTAATCATTT
GAAATCTGAACATCTTTACCTCATTTCTTGCCAATTACTCCCTTGGGTATTTACTGCGTAATTGGAACATTTACT
AAAATAACACTTTTGGCTTAAAAAAAATTTTAAAAAAAATTTTAAAAAAAATTTTAAAAAAAATTTTAAAAAAAATTTT

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FIGURE 1461

MAKSLLKTASLSGRITKLLHQTGLSLYSTSHGFYEEEVKKTLLQQFPGGSIDLQKEDNGIGILTNNPSRMNAFSGV
MMLQLLEKVIELENWTEGKGLIVRGAKNTFSSGSDLNAVKITIGISQRRPLISVALVQGWALGGGAFTTACDF
RLMTPESKIRFVHKEMGIIPSWGTTTLVEIIGSRQALKVLGALKLDSKNALNIGMVEEVLQSSDETKSLEEAQ
EWLKQFIQGPPEVIRALKKSVCSGRELYLEEALQNERDLLGTVWGGPANLEAIAKKGKFNK

1610/2682
FIGURE 1462

ATGTTGGTGCTGTTTGAAACGTCTGTGGGTTACGCCATCTTTAAGGTTCTAAATGAGAAGAACTTCAAGAGGTT
GATAGTTTATGGAAAGAATTTGAAACTCCAGAGAAAGCAAACAAAATAGTAAAGCTAAAACATTTTGAGAAATTT
CAGGATACAGCAGAAGCATTAGCAGCATTACAGCTCTGATGGAGGGCAAATCAATAAGCAGCTGAAAAAAGTT
CTGAAGAAAATAGTAAAAGAAGCCCATGAACCGCTGGCAGTAGCTGATGCTAAACTAGGAGGGGTCATAAAGGAA
AAGCTGAATCTCAGTTGTATCCATAGTCCTGTTGTTAATGAACCTATGAGAGGAATTCGTTACAAAATGGATGGA
TTAATCCCTGGGGTAGAACCACGTGAAATGGCAGCTATGTGTCTTGGATTGGCTCACAGCCTGTCTCGATATAGA
TTGAAGTTTACGCTGATAAAGTAGACACAATGATTGTTTCAGGCAATTCCTTGTTAGATGACTTGGATAAAGAA
CTAAACAACACTACATTATGCGATGTAGAGAATGGTATGGCTGGCATTTCCTTGAATTAGGAAAAATTATTCAGAT
AATTTAACATACTGCAAGTGTTCACAGAAAGTTGGCGATAGGAAGAACTATGCCTCTGCCAAGCTTCTGAGTTG
CTGCCAGAAGAAGTTGAAGCAGAAGTGAAAGCAGCTGCAGAGATATCAATGGGAACAGAGGTTTCAGAAGAAGAT
ATTTGCAATATTCTGCATCTTTGCACCCAGGTGATTGAAATCTCTGAATATCGAACCCAGCTCTATGAATATCTA
CAAAATCGAATGATGGCCATTGCACCCAATGTTACAGTCATGGTTGGGGAATTAGTTGGAGCACGGCTTATTGCT
CATGCAGGTTCTCTTTTAAATTTGGCCAAGCATGCAGCTTCTACCGTTTCAGATTCTTGGAGCTGAAAAGGCACTT
TTCAGAGCCCTCAAATCTAGACGGGATACCCCTAAGTATGGTCTCATTTATCATGCTTCACTCGTGGGCCAGACA
AGTCCCAAACACAAAGGAAAGATTTCTCGAATGCTGGCAGCCAAAACCGTTTTGGCTATCCGTTATGATGCTTTT
GGTGAGGATTCAAGTTCTGCAATGGGAGTTGAGAACAGAGCCAAATAGAGGCCAGGTTGAGAACTTTGGAAGAC
AGAGGGATAAGAAAAATAAGTGGAACAGGAAAAGCATTAGCAAAAACAGAAAAATATGAACACAAAAGTGAAGTG
AAGACTTACGATCCTTCTGGTGACTCCACACTTCCAACCTGCTCTAAAAAACGCAAAATAGAACAGGTAGATAAA
GAGGATGAAATTACTGAAAAGAAAGCCAAAAAAGCCAAGATTAAAGTTAAAGTTGAAGAAGAGGAAGAAGAAAA
GTGGCAGAAGAAGAAGAAACATCTGTGAAGAAGAAGAAGAAAAGGGGTAAAAAGAAACACATTAAGGAAGAACCA
CTTTCTGAGGAAGAACCATGTACCAGCACAGCAATTGCTAGTCCAGAGAAAAAGAAAGAAAAAGAAAAAAGAGA
GAGAACGAGGATTAA

1611/2682
FIGURE 1463

MLVLFETSVGYAIFKVLNEKKLQEVDSLWKEFETPEKANKIVKLKHFQDTAEALAAFTALMEGKINKQLKKV
LKKIVKEAHEPLAVADAKLGGVKEKLNLSCHSPVVNELMRGIRSQMDGLIPGVEPREMAAMCLGLAHSLSRYR
LKFSADKVDTMIVQAISLLDDLDKELNNYIMRCREWYGWHFPELGKII SDNLTYCKCLQKVGDRKNYASAKLSEL
LP EEVEAEVKAAAEISMGTEVSEEDICNIIHLCTQVIEISEYRTQLYEYLQNRMMIAIPNVTVMVGELVGARLIA
HAGSLNLAKHAASTVQILGAEKALFRALKSRRDTPKYGLIYHASLVGQTSPKHKGKISRMLAAKTVLAIKYDAF
GEDSSSAMGVENRAKLEARLRTLED RGIRKISGTGKALAKTEKYEKSEVKTYDP SGDSLPTCSKKRKIEQVDK
EDEITEKKAKKAKIKVKVEEEEEEEKVAEEEEETSVKKKKKKRGKKKKHKEEPLSEEEPTSTAIASPEKKKKKKKKR
ENED

1612/2682
FIGURE 1464

GGCACGAGGCTCAGCGTTTGAGTCAGCCAGGAGTAGCAATAGGTTTGGCTTGGACTCCCTTAGGTGGAGAAATCA
TGTTTCGTGGAGGCGAGTCGAATGGATGGCGAGGGCCAGTTAACTCTGACCGGCCAGCTCGGGGACGTGATGAAGG
AGTCCGCCCACCTCGCTATCAGCTGGCTCCGCAGCAACGCAAAGAAGTACCAGCTGACCAATGCTTTTGGAAAGTT
TTGATCTTCTTGACAACACAGACATCCATCTGCACCTCCCAGCTGGAGCTGTACAAAAGATGGACCATCTGCTG
GAGTTACCATAGTAACCTGTCTCGCCTCACTTTTTAGTGGGCGGCTGGTACGTTTACAGATGTAGCCATGACTGGAG
AAATTACACTGAGAGGTCTTGTTCTTCCAGTGGGTGGAATTAAAGACAAAAGTGTGGCGGCACACAGAGCGGGAC
TGAAGCAAGTCATTATTCCTCGGAGAAATGAAAAAGACCTTGAGGGAATCCCAGGCAACGTACGACAGGATTTAA
GTTTTGTACAGCAAGCTGCCTGGATGAGGTTCTTAATGCAGCTTTTGATGGTGGCTTTACTGTCAAGACCAGAC
CTGGTCTGTTAAATAGCAAACGTAGGTCCAAATCTCAATTTTTTAGAATTTTAAGTTATGAAGTGCTCAAAGGT
ACTGACACAGTTGATTTTTATTACACCATTAGGGGTATGCAAGATGTCCCTGTTTTATAAACATAATCACAACAG
TAATAAACCTCAAGTAGTGGCTAGTGTTTAGTATAGAAATATAAGATGTTGATTTAGTAAACTGATAAAAATCGA
ATTCTTGCTTTTTTAGTGGGATCCTTACTGTCCCTGGAAAGATATAGCATAGTGGTCTCAGCACAGTCTCCAGA
ACAGAAGCATCTGTAGTACCTGGTAACCTTGTTAGAAATGTACATTCTCAGGCTCCACAGCAGGCCGCCTGAATCA
AATCCTGGGAGGTGGGGACAGAAATCTGTGTTTTAAGAAGCCTTCCAGGTAATTCTGCTGCACACTCAAGTTTCA
GAACCACCGGTATAGACCATTACCTTAGTGGATTTACCTGTAGAGTTTATTGGATCCTGAAACCAATCAATTACT
TAGAACTAGGCAAAGATGAAAGTATAGCCAACTATTCTTGGCTATATATATATATTCAAGTGGGCCGGCGTGAT
GGCTCACACCTGTAATTCCAGCACTTTGGGAGGTTCGAGGTAGGCAGATCACCGAGCCCAAGAGTTCAAGACAATC
CTGGCCAACGGCGAAACTCTGTCTCTACAAAAAATATACAGGCGTGTAGCATGTGCCTGTAATCCCAGCTTCTT
GGGAAGCTGAGGCACAAGAATTGCCTGAACCCAGGAGGTGGAGGTTGCAGTGAGCTGGGATCGCGCCATTGCACT
CCAGCCTGGCTGACAGAGCGAGACTGTCTCTAAAAAAGACTCAAGTGGACCCTACAATGAAGCCTACACAT
CCCAATAGAAGCCCCTTCTTATGCTGAGGGAAGCAGCCCTCAGAACATGATAGCTTGTATCCAGCAGAGTGGCAC
GTGCTGGCACACCTCACAGAAGCACCTTGGCCCTGGATGCCTGCAACCTCAGAAGAGTGAGCTCCCAGAGGGAG
GCAGCCATCCATCTGGGATGGTCTTAAGCATGGAATCCTAAGTCTGATTCCGCTCTCTATTCTTGCTTGGCTA
TGCCAGTTCCCAAATCTGGTAGATGTCCATGCCATGTGCTCCTGCTGGGACTCAATTCAGGCTATGTATGACTA
TGAAGTCAGGCTCATCTGCTTACTGGCTGTGTGAACTTTTTGTATCTTGGTTTTCTTCATCCATGAAATCCAAGT
AATACTACCTAATTGTTACTGTGGAGATTAAGTTCAAATGCAATGTATAGTAATATTAAGCAATTTCTAGTTATT
ATTCTAGCCAGTAATGGACTTCAGAATCTTTTATTACACAATATAAGAATATGTATGTAAAGACATTTTGGAAAT
TCCTGGATGAGAAGGAAGTCTGGGCTGGGCATGGTGGCTCACGCCTGTAACCCTAGCACTTTAGGAAATCGAGGC
GAGTGGATCACTTAAGCTCAGGAGTTCAAGGCCAGCCTGGGCAACATGGCAAACCCCATTTCTACAAAAAATAC
AAAAATTAGCTGGGCATGGTGGCACCCGCCTGTAGTCCAGCTACTTGAGGCTGAGATGGGAGGATGAGGGAGGTC
GGGGCTGCAGTGAGCCAAGATCACGCCACTGCACTCCAGCACCCCTGGGCGACAGAGTGAGACCCTGTCTCAAAAA
AAAAAAAAAAAAA

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FIGURE 1465

MKESAHLAISWLRSNAKKYQLTNAFGSFDLLDNTDIHLHFPAGAVTKDGPSAGVTIVTCLASLFSGRLVRSDVAM
TGEITLRGLVLPVGGIKDKVLAAHRAGLKQVIIPRRNEKDLEGIPGNVRQDLSFVTASCLDEVLNAAFDDGGFTVK
TRPGLLSKL

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FIGURE 1466

TGGCACCGGCATCGGCTGACACTGCTGCCTCCAGCTAGTTATTTTCGTCCTCTTCCGTTCTTCACCCCTACACCTT
GGAGGTGAACCTTCTCACCTGAGGGCTGTAAAGACTCGTTTGAAAATGGAGAGCCAAGAACCAACGGAATCTTCTC
AGAATGGCAAACAGTATATCATTTTCAGAGGAGTTAATTTTCAGAAGGAAAATGGGTCAAGCTTGAAAAACAACGT
ACATGGATCCTACTGGTAAAACTAGAACTTGGGAATCAGTGAACGTACCAACCAGGAAAGAGCAGACTGCGGATG
TCGCGGTCATCCCCGTGCTGCAGAGAACCTTCACTATGAGTGTATCGTTCTGGTGAAACAGTTCCGACCAC
GGGGGGCTACTGCATAGAGTTCCCTGCAGGTCTCATAGATGATGGTGAAACCCAGAACGAGCTGCTCTCC
AGCTTGAAGAAGAACTGGCTACAAAGGGGACATTGCCGAATGTTCTCCAGCGGTCTGTATGGACCCAGGCT
CTCAAACGTACTATACACATCGTGACAGTCACCATTAAACGGAGATGATGCCGAAAACGCAAGGCCGAAGCCAA
TAGGGGATGGAGAGTTTGTGGAAGTCATTTCTTTACCCAAGAATGACCTGCTGCAGAGACTTGATGCTCTGG
CTGAAGAACATCTCACAGTGGACGCCAGGGTCTATTCTACGCTCTAGCGCTGAAACATGCAAATGCAAAGC
CTGAAGTGCCCTTCTTGAAATTTTAAAGCCCAAATATGACACTGGCCATTTTGTAAACGAGACCACCAGGCC
TCACTAAGACTTTGTATTCAACTTAGTTTAATGTAGATTTGCCATTAGCTTTTTCGTAAAATAAAAGCACA
ACAGATGTGGTGGTGGTATGGAATTGTAATTACAGGTAGGTTGTGACCTTCCTTTAAATTTGTTATAACTCCA
TAAAATTAACAAAGAATATAAATGCAAGTATGTTTACTCCAATTTTTTAAAGCTCAACAGAGTTAACTACAG
CTCAGTTACTTTTCTAGTCCAGTCTGGAACACAGGGGTATTTGGTATTGAGAAATAGACCTGAGTTCTCAATTAG
GTCA

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FIGURE 1467

MESQEPTESSQNGKQYII SEELI SEGKWKLEKTTYMDPTGKTRTWESVNVPTRKEQTADGVAVIPVLQRTLHYE
CIVLVKQFRPPMGGYCIEFPAGLIDDGETPEAAALRELEEETGYKGDIAECSPAVCMDPGLSNCTIHIVTVTING
DDAENARPKPKPGDGEFVEVISLPKNDLLQRLDALVAEEHLTVDARVYSYALALKHANAKPFEVPFLKF

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FIGURE 1468

GCCCCGAGCAGGAGCCGGTGCGAGCGGAGCAGAGCCGAGGTCGGGCCGCGAGCGGAGCCGGCTGAGCGGGCGCC
GAGCTCCCGCCATGCCCCGGAACACGCTGTCCTCGCGCTTCGCGGGGTGGACATCGACGAATTTGACGAGAACA
AATTTGTGGACGAGCAGGAGGAGGCGGCGGGCGGCGGCGGAGCCAGGCCCGGACCCGAGCGAGGTGGACGGGC
TCCTGCGGCAAGGGGACATGCTTCGGGCATTCCATGCAGCCTTGCGGAACCTCTCCCGTCAACACCAAGAATCAAG
CTGTGAAGGAGCGAGCCCAGGGCGTGGTGCTGAAAGTGCTCACAACTTCAAGAGCAGTGAGATTGAGCAGGCTG
TGCAGTCACTGGACAGAAACGGCGTTGACTTGTTAATGAAGTACATTTATAAAGGCTTTGAGAAGCCCACAGAAA
ATAGCAGCGCAGTGTTACTCCAGTGGCACGAAAAGGCCTTAGCAGTAGGAGGACTAGGCTCCATTATAAGAGTTC
TTACAGCAAGAAAGACTGTTTTAAAAAAAATAAAAGACTCATGTTACCTTGAGAAGAATTCTGGATGCCCAGGCT
GGTGAAGAAGGGATTGACAAATGGACCATCTTCCTAGGAACTCCCAAGTAACTATTTAGGACATGTATCTGCTG
AAATGTATTTTATTTTCAAGGTGGAGGGGAAAATCGTCTGTTTCCTAAATCCTGTTTAGGATCTGATAGTCTATG
CCTTTGTCTCCGAGTACTGCAGAACTGACATTTTGACGGTCTACCAGCGTGGCGGCTGGTGTTGGTCAGATGCAC
CTGTGTGCACTGGGGGAGGGATGGTTTGGGCAGGTGCAGATCCAAGGGCTGTGGTAAACGGGAGAGCTTGTGTTT
TTGAAGTGAAAAAAACCCAAGAGTTTGTACAGACATCCTGTCTTCCCAGAGAAGGTGGACACTCTTGGGCTCAT
TGTAAGTGCCTGCTGCATCAATAAAGCTCTTGGCTTATTAGTCTATACAAAAAAAAAAAAAAAAAAAA

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FIGURE 1469

MARNTLSSRFRRVDIDF DENKFVDEQEEAAAAAEPGDPSEVDGLLRQGDMLRAFHAALRNSPVNTKNQAVKE
RAQGVVLKVL TNFKSSEIEQAVQSLDRNGVDLLMKYIYKGF EKPTENS SAVLLQWHEKALAVGGLGSIIRVLTAR
KTV

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FIGURE 1470

ACGATGGCATGACAACCGACGTTGGAGTTTGGAGGTGCTTGCCTTAGAGCAAGGGAAACAGCTCTCATTCAAAGG
AACTAGAAGCCTCTCCCTCAGTGGTAGGGAGACAGCCAGGAGCGGTTTTCTGGGAACGTGGGATGTGCCCTTGG
GGGCCCCGAGAAAAACAGAAGGAAGATGCTCCAGACCAGTAACACAGCCTGGTGCTCTCTCTGCAGTTCCTGCTGC
TGTCTATGACCTCTTTGTCAATTCCTTCTCAGAACTGCTCCAAAAGACTCCTGTCATCCAGCTTGTGCTCTTCA
TCATCCAGGATATTGCAGTCCTCTTCAACATCATCATCATTTTTCTCATGTTCTTCAACACCTTCGTCTTCCAGG
CTGGCCTGGTCAACCTCCTATTCCATAAGTTCAAAGGGACCATCATCCTGACAGCTGTGTACTTTGCCCTCAGCA
TCTCCCTTCATGCTCTGGGTCTGAACTTACGCTGGAAAACTCCAACAGCTTCATATGGACAGATGGACTTCAA
TGCTGTTTGTATTCCAGAGACTAGCAGCAGTGTTGTACTGCTACTTCTATAAACGGACAGCCGTAAGACTAGGCG
ATCCTCACTTCTACCAGGACTCTTTGTGGTTGCGCAAGGAGTTCATGCAAGTTCGAAGGTGACCTCTTGTACAC
TGATGGATACTTTTCCTTCCCTGATAGAAGCCACATTTGCTGCTTTGCAGGGAGAGTTGGCCCTATGCATGGGCAA
ACAGCTGGACTTTCCAAGGAAGGTTCAGACTAGCTGTGTTTCAAGATTCAGCATTCAAGAAGGAAGATCCTCCCTCTTGCACA
ATTAGAGTGTCCTCCATCGGTCTCCAGTGCGGCATCCCTTCCTTGCCTTCTACCTCTGTTCCACCCCTTTTCCTTC
CTTTCCTCTCTGTACCATTCAATCTCCCTGACCGGCCTTTCTTGCCGAGGGTTCTGTGGCTCTTACCCTTGTGAA
GCTTTTCCTTTAGCCTGGGACAGAAGGACCTCCAGCCCCCAAAGGATCTCCAGTGACCAAAGGATGCGAAGAG
TGATAGTTACGTGCTCCTGACTGATCACACCGCAGACATTTAGATTTTATACCCAAGGCACTTTAAAAAAATGT
TTTATAAATAGAGAATAAATTGAATTCTTGTTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1471

MLQTSNYSLVLSLQFLLLSYDLFVNSFSELLQKTPVIQLVLFIIQDIAVLFNIIIIIFLMFFNTFVFQAGLVNLLF
HKFKGTIIILTAVYFALSISLHVWVMNLRWKNSNSFIWTDGLQMLFVFQRLAAVLYCYFYKRTAVRLGDPHFYQDS
LWLRKEFMQVRR

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FIGURE 1472

GGCACGAGGCTGCCGCGCTGTCCGCGTTATCTCCTCCCGGTGAGAACGAACCGCAGTGTCCACCGGCGAGGAGCC
AGCCCTGTCCCGGTCAGAGAAAGACGACGAGGATACCTGGGAGCGGGCGGCGGGCTGGGCCGCGCCGGTGC
GGGCTGGCGACTCTGCTCCTCCGCTTGCTGCTGTCTCTGGGAAGTGGGTGCCAGCGCTGAGGGGCTTCCAGCGGA
CAGGGACCCCCCTCCCCGGCTCCCTGCCACCCTGCCGGGGAGGGCGGAAGATGCCGGTGAAGAAGAAGAGAAA
...CCTGGGGTGGCAGCAGCAGTAGCGGAAGACGGAGGCCTCAAAAAGTGTAATCTCCAGCTATTGCAGATC
...ACCCCTGCTAGACTAATAAGTGGAGAGGAACATTTTCAAGCAAGAAGTGCCTGGCTTGGTTTTATGAATA
...AGTCCTGATGAAGTTGTAGGGCCAGAAGGAATGGAAAAATTTTGTGAAGACATTGGTGTGAACCTGAAAA
TATTATTATGTTAGTTTTAGCGTGGAATTTGGAGGCTGAAAGCATGGGATTTTTTACCAAGGAAGAATGGTTAAA
...AATGACTTCATTACAGTGTGACTGCACAGAAAAGTTACAAAACAAATTTGACTTTTTGCGCTCACAGTTGAA
...TATTTTCGTCATTTAAGAATATCTACAGATATGCCTTTGATTTTGCAAGGGATAAAGATCAGAGAAGCCTTGA
...TGATACTGCTAAATCTATGTTAGCTCTTCTGCTTGGGAGGACATGGCCACTGTTTTCAGTATTTTACCAGTA
...TGAGCAATCAAAGTATCGTGTTATGAACAAAGATCAATGGTACAATGTATTAGAATTCAGCAGAACAGTCCA
...TGATCTTAGTAACATATGATGAAGATGGTGCTTGGCCTGTTCTTCTTGATGAATTTGTTGAGTGGCAAAAAGT
...CTCAGACATCATAGCAAGAACTATGTGAAGAAAATGCAAACCTTTCAATTTCCACGTGTATACAAGCTAATGT
GATGAGGGGGAAAAAATCCAACGGGTGCATTTTCATTATATGAAAGACTTCTCATAGTACTTTTTTTTCCTTT
TTTTAAAGGAGGTTTTTCTTGTTACATGTGATGGGCATTGAGCCACACCTCTTCTTAGACTGAATATTGAAGTTT
TTGTTTTGAGTTATGTTTATAACATTTATTTTCAACAATAAAGATTGAGATTTGTGAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 1473

MPVKKKRKSPGVAAAVAEDGGLKKCKISSYCRSQPPARLISGEEHFSSKKCLAWFYEYAGPDEVVGPEGMEKFCE
DIGVEPENIIMLVLAWKLEAESMGFFTKEEWLKGMTSLQCDCTEKLQNKFDLRSQLNDISSFKNIYRYAFDFAR
DKDQRSIDIDTAKSMLALLLGRTWPLFSVIFYQYLEQSKYRVMNKDQWYNVLEFSRTVHADLSNYDEDGAWPVLLD
EFVEWQKVRQTS

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FIGURE 1474

TAACCTCCTTCCCTCTTTGCGGATTCTAGAACGGAACCTTTTTTTAATTCTTCCCAGTAGAAACGTAGGAACAATT
TCGTGAACGCAATCCGGAGTGCCCAACATGGCGGCGGCCGTAAGGTGCATGGGTAGAGCCTTGATACATCATCAA
AGGCATAGCCTTTCCAAGATGGTTTATCAGACATCACTTTGTTCTTGTTCTGTAAACATCCGAGTGCCCAACAGA
CATTTTGCTGCTGCTACAAAGTCTGCAAAGAAAACAAAAAAGGTGCTAAAGAAAAAACACCAGATGAGAAAAAA
GATGAAATAGAAAAAATAAAAGCATATCCCTATATGGAAGGCGAACCTGAGGATGATGTCTATTTAAAACGCTTA
TACCCGAGACAGATATATGAGGTGGAGAAAGCTGTTCACTTACTTAAGAAATTTCAAATTCTTGACTTTACTAGT
CCAAAGCAAAGTGTATCTTGATTTGACACTGGATATGGCACTGGGAAAGAAGAAAAACGTGGAGCCATTTACC
AGTGTTCTTAGTTTGCCATACCCATTTGCTTCCGAAATCAATAAAGTTGCTGTATTTACAGAGAATGCATCAGAG
GTCAAAATAGCGGAAGAAAATGGAGCTGCATTTGCAGGAGGCACTAGTCTGATACAGAAGATTTGGGATGATGAA
ATTGTTGCAGACTTTTACGTAGCTGTTCCAGAAATAATGCCTGAACCTTAATCGATTAAGGAAGAACTGAATAAA
AAATATCCAAAGCTTTCTCGAAATTCATTGGCCGTGACATCCCCAAAATGCTTGAATTATTTAAAAATGGACAT
GAAATTAAGGTAGATGAAGAAAGGGAGAACTTTCTCCAGACCAAAATAGCAACATTGGATATGTCAAGTGACCAG
ATAGCTGCCAATCTGCAAGCAGTTATTAATGAAGTTTGTAGGCACAGACCGCTGAATTTGGGTCCCTTTGTGGTA
CGTGCTTTCCTTCGTAGTTCAACAAGTGAAGGTTTATTACTGAAGATTGATCCATTGTTGCCTAAAGAAGTAAAA
AATGAAGAAAGTGAAAAAGAAGATGCCTAAATGTGGTGAATTGTGAAATTACTTTCAGTGGTTTAAGAAGCAATG
GAGAAAATGATAATACAGCATAATTTTTACATTTGATGTCTTGTATTGATCATACTTGAAAGTGAACTTTAACA
TTGAAAAATCGTACAGTCATTTCAAGAATAAGAAAAATAAAATTTCTCTTTGTCTGAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 1475

MVYQTSLCSCSVNIRVFNHFAAATKSAKKTKKGAKKTPDEKKDEIEKIKAYPYMEGEPEDDVYLKRLYPRQIY
EVEKAVHLLKKFQILDFTSPKQSVYLDLTLDMALGKKKNVEPFTSVLSLPYPFASEINKVAVFTENASEVKIAEE
NGAAFAGGTSLIQKIWDDEIVADFYVAVPEIMPELNRLRKKLNKKYPKLSRNSIGRDIPKMLELFKNGHEIKVDE
ERENFLQTKIATLDMSSDQIAANLQAVINEVCRHRPLNLGPFVVRAFLRSSTSEGLLLKIDPLLPKEVKNEESEK
EDA

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FIGURE 1476

TAGTCACGCTCGGTACCAGGCGCAGATCATGGCAGGCAGCCGGCTGGAAACCGTAGGGAGCATCTTCTCTCGGAC
TCGGGACCTGGTTCGGGCCGGGGTGCTGAAGGAGAAGCCCCTGTGGTTTGACGTATATGACGCCTTCCCCCGCT
GAGGGAGCCCGTCTTCCAAAGGCCTCGAGTGCGATATGGCAAAGCCAAAGCTCCCATCCAAGACATCTGGTACCA
CGAGGATCGGATTAGAGCGAAGTTTTATTTCAGTGTATGGGTCTGGTCAAAGAGCTTTTGATCTATTCAATCCAAA
CTTCAAGTCTACCTGTCAACGGTTTGTGGAGAAGTACACTGAGCTACAGAACTTGGAGAAACAGATGAAGAGAA
GTTATTTGTGGAAACAGGGAAGGCTTTATTGGCAGAAGGTGTCATTTTAAGACGAGTAGGCGAAGCAAGGACTCA
ACACGGAGGTAGTCACGTTTCCCGGAAATCCGAACACTTGAGTGTCAGACCACAGACTGCGTTGGAAGAAAACGA
GACTCAGAAAGAAGTTCCACAGGACCAGCATTTGGAGGCACCTGCAGACCAGTCGAAAGGTCTCTTGCCCTCCCTG
AAGGACCTGTATACTGTGTATGCTGGCATTACACTCTACTCACTGGCTGAATGTTGAGCTATTTTTAAACAGTT
GAACTGTGTAAATGTTTCTTGATCTCTAAGGTATTATGTTTGCCCTTCTCTTAGTTATTTCTGGGTTGTCACAAAG
CTCAGTATCATGGTTTGACAGAAGCAGTTATGTGAACCTTTATGTTAGGACATTACTAAATAAAGAATTCCCTAG
CTGCTTATAAAGTAAATTTACTTTGAATTGTAAATAACATGAAGAAACCTTTATAAAGATTGTTCAAATGGGACT
CAA

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FIGURE 1477

MAGSRLETVGSIFSRTDLVRAGVLKEKPLWFDVYDAFPPLREPVFQRPVRVYGKAKAPIQDIWYHEDRIRAKFY
SVYGSGQRAFDLFNPNFKSTCQRFVEKYTELQKLGETDEEKL FVETGKALLAEGVILRRVGEARTQHGGSHVSRK
SEHLSVRPQTALEENETQKEVPQDQHLEAPADQSKGLLP

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FIGURE 1478

ACGGCGCCCGCCAGGAGCGCCCCCACTCCCAGGCCAGCCCACCCCGGCGGACCGGGCCCCGCGCGCCAGGCGA
GGCACTGGGGCTCCCTCTGCTCCCCGTGGGCCGCTCCCCGCGTGGGGCCACTGCCCCGGCCCCCGCCATGGTGCG
GATTTCAAAGCCCAAGACGTTTCAGGCCTACTTGGATGATTGTCACCGGAGGTATAGCTGTGCCCCACTGCCGCGC
TCACCTGGCCAACCACGACGACCTCATCTCCAAGTCCTTCCAGGGCAGTCAGGGGCGTGCCTACCTCTTCAACTC
CGGTGAACGTGGGGCTGCGGGCCAGCCGAGGAGCGGGTGCTGCTGACCGGCCCTCCATGCTGTGCGCGACATCCA
GAGAACTGCAAGACCACTTTGGGCTGGAAATATGAACAGGCCTTTGAGAGCAGCCAGAAGTACAAAGAGGG
AGTACATCATTGAACTCAACCACATGATCAAAGACAACGGCTGGGACTGACCCCCGCTCCCCCGACGCATGTG
GATCCAGCCCGGCCTGGCCGCCAGGGAGCGCCACTGGCTTCCCGCCACCCGAAGGGAGCTCTGGACCCTCAGAGC
CTGCAGAGGACGGATCTAGCTCCTGTATATATATTTTATTGCACTGCACTGTGACCTTGGGGGGAGAACAGAAG
GGGACGACGCCCCCGCACCTCCTGCGATCTGGCTGGCTTGGATCTCGTTTTTAACCCGTTTCTGCCCCACCTGC
CTATAGTTATGGCCTGTGTTCTGCTCTCCTGGTCCCAGTGCACCGTCTGCTCTGTGAACCTCTCCACCAGGCC
CTTACCCACGCGTGTCTGTCCCCCTCGTTCTGTAGCGTTTGTACATAATAAAACAATGGAGTGGAGACAAA
#AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1479

MVRISKPKTFQAYLDDCHRRYSCAHCRAHLANHDDLISKSFQGSQGRAYLFNSVVNVGCGPAEERVLLTGLHAVA
DIHCENCKTTLGWKYEQAFESSQKYKEGKYIIELNHMIKDNGWD

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FIGURE 1480

GTGACATTGAGCTCACCAGCGCCACCGTCCCCGGCGAAGTTCTGCGCTGGTCGGCGGAGAGCAAGTGGCCATGGG
GAGCCTCAGCGGTCTGCGCCTGGCAGCAGGAAGCTGTTTTAGGTTATGTGAAAGAGATGTTTCCTCATCTCTAAG
GCTTACCAGAAGCTCTGATTTGAAGAGAATAAATGGATTTTGACAAAAACCACAGGAAAGTCCCGGAGCTCCATT
CCCGCACTTACAACAGAGTGCCTTTACACAAACCTACGGATTGGCAGAAAAAGATCCTCATATGGTCAGGTCGCT
TCAAAAGGAAGATGAAATCCCAGAGACTGTCTCGTTGGAGATGCTTGATGCTGCAAAGAACAAGATGCGAGTGAA
GATCAGCTATCTAATGATTGCCCTGACGGTGGTAGGATGCATCTTTCATTGGTTATTGAGGGCAAGAAGCTTGCC
CAAAGACCGAGACTTTAACCAGCTTGGACCTTTAGAAAAGAAAGCTCGTCTGAAAGAAGGAAGCAGCTATGAAGG
CCAAAACAGATTACCAAAGGTATCCGTGTTGGTTGGGATTTTGAAAATCCAGGAATTATGTTTTAACGTGCCTGT
ATTAAAAAGGATGTGGTATGAGGATCCATTTTATAAAGTATTGATTTGCCCCAACCTGTACCATTTCCGTATTTCT
GCTGTAGAAGTAGAAATAAATTTTCTTAAATAATGACTGTGTTTTATTGTTTTGATCCAAGTCAAGTGTAGCCTC
TCAGCCTTTTGGAGAAAAATGAAACAATTTATTTCAACTGAATACCAACTCTTCAGAGAAGCAGGTACCATATC
TTACTTCTCTTCCCATTATCAAAGTAACCTCTCCACAGGCGAACTCATTTTGAGGAGATAAGGAAGGCCAGTTGA
GTATATGGCCCAGGTGCAGCTTGGAGGGCCAGCCTTCTCAAATGTCCTGGTGTACTGGTGGGGAGGCTGCCCCCT
AATAGAGCGAGCGCTGAGAAGCAGCCAGACCACATTTCTATAATCTTTGAACATGCTGGCAGATGGAGGCTTTTAG
GAGAATAGTTTTTTTAAACATTCTGACAAGGTCCAGCCAGGAATTTCTAAGGACTTAGAAATCCCAGTGTGATGGA
GTTGCTTGGGGGTCAACACAAGTCACCTCTTAGCTTCATGCCTTAGAATTCTCAACTGGGCTGTTTTCTTACCA
CCTGAGAAACTAAAT

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FIGURE 1481

MGSLSGRLRLAAGSCFRLCERDVSSSLRLTRSSDLKRINGFCTKPQESPGAPFPHLQQSAFTQTYGLAEKDPHMVR
SLQKEDEIPETVSLEMLDAAKNKMRVKISYLMIALTVVGCIFHWLLRARSLPKDRDFNQLGPLEKKARLKEGSSY
EGQNRLPKVSVLVGILKIQELCFNVPVLKRMWYEDPFHKV

[illegible]

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FIGURE 1483

MIVADSECR AELKDYLRFAPGGVGD SGPGEEQRESRARRGPRGPSAFIPVEEVLREGAESLEQHLGLEALMSSGR
VDNLAVVMGLHPDYFTSFWR LH YLLH TDG PLASSWRHYIAIMAAARHQCSYLVGSHMAEFLQTGGDPEWLLGLH
RAPEKLRKLSEINKLLAHRPWLITKEHIQALLKTGEHTWSLAELIQALVLLTHCHSLSSFVFGCGILPEGDADGS
PAPQAPTPPSEQSSPPSRDPLNNSGGFESARDVEALMERMQQLOESLLRDEGTSQEEMESRFELEKSESLLVTPS
ADILEPSPHPDMLCFVEDPTFGYEDFTRRGAQAPPTFRAQDYTWEDHGYSLIQRLYPEGGQLLDEKFQAAYSLTY
NTIAMHSGVDTSVLRRAIWNYIHCVF GIRYDDYDYGEVNQLLERNLKVYIKTVACYPEKTTRMYNLFWRHFRHS
EKVHVNLLLLLEARMQAALLYALRAITRYMT

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FIGURE 1484

GGGGACTCCGGGAGGAGGAACATGCCGTGGCGGACCTCGCTCTCATTCCCTGATGTGGACATCGACTCCGACGGC
GTCTTCAAGTATGTGCTGATCCGAGTCCACTCGGCTCCCCGCTCCGGGCTCCGGCTGCAGAGAGCAAGGAGATCG
TGCGCGGCTACAAGTGGGCTGAGTACCATGCGGACATCTACGACAAAGTGTGCGGCGACATGCAGAAGCAAGGCT
GCGACTGTGAGTGTCTGGGCGGCGGGCGCATCTCCCACCAGAGTCAGGACAAGAAGATTACGTGTACGGCTATT
*TGGCCTATGGTCCTGCCCAGCACGCCATTTCAACTGAGAAAATCAAAGCCAAGTACCCCGACTACGAGGTCA
*GGCTAACGACGGCTACTGAGCACTCCCAGCCCGGGCCTGCTGCCTCCAGCAGCCACTTCAGAGCCCCGCC
*GCCTGCACTCCTCTTGCAAGGCTGGCCCTGCCTGCTCCTGCGGCAGCCTCTGGTGACGTGCTGTCCACCAGG
CCTTGGAGACAGGCTAGCCTGGCCACAGAATTAAACGTGTTGCCACACCTGCCGGCTTCTTAAAAAAAAAAAAA
*AAAAAAAAAAAAA

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FIGURE 1485

MAVADLALIPDVIDSDGVFKYVLIRVHSAPRSGLRRLQARRSCAATSGLSTMRTSTTKCRATCRSKAATVSVWA
AGASPTRVRTRRFCTAIPWPMVLPSTPFQLRKSKPSTPTTRSPGLTTATEHSQPGACCLQQPLQSPAFACTPLA
GLALPAPAAASGDVLSTRPWRQASLATELNVLPHLPAS

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FIGURE 1486

GGCACGAGGGCTGCCTGGCGCTGCGGGCGGGGCCATGGTGGTTTGGATTGAGCCGGGCCCCGGCCGGGGCGCCG
AGTCGGAGGGGGTGGCAGTGAGCGGCGGCAGAGGCTACGGGGCTCGGTTTGGCTGACTGGGGAGTCGGCAGGCGG
CAGGAACCATCGAGAGGCCAGCGGAGCCTGCTGCTGGGCCCCGGCCCGCTCTGCCTCCGCCTCCTTCTGCTGCTGG
GTTACAGGCGCCGCTGTCCACCTCTACTCCGGGGTCTAGTACAGCGCTGGCGCTACGGCAAGGTCTGCCTGCGCT
CCCTGCTCTACAACCTCCTTTGGGGGCAGTGACACCGCTGTTGATGCTGCCTTTGAGCCTGTCTACTGGCTGGTAG
ACAACGTGATCCGCTGGTTTGGAGTGGGCAGGAATGATATCGCCACCGTCTCCATCTGTAAGAAGTGCAATTTACC
CCAAGCCAGCCCGAACACACCACTGCAGCATCTGCAACAGGTGTGTGCTGAAGATGGATCACCCTGCCCCTGGC
TAAACAATTGTGTGGGCCACTATAACCATCGGTACTTCTTCTCTTCTGCTTTTTTCATGACTCTGGGCTGTGTCT
ACTGCAGCTATGGAAGTTGGGACCTTTTCCGGGAGGCTTATGCTGCCATTGAGACTTATCACCAGACCCACCAC
CCACCTTCTCCTTTTCGAGAAAGGATGACTCACAAGAGTCTTGTCTACCTCTGGTTCCTGTGCAGTTCTGTGGCAC
TTGCCCTGGGTGCCCTAACTGTATGGCATGCTGTTCTCATCAGTCGAGGTGAGACTAGCATCGAAAGGCACATCA
ACAAGAAGGAGAGACGTCCGGCTACAGGCCAAGGGCAGAGTATTTAGGAATCCTTACAACCTACGGCTGCTTGGACA
ACTGGAAGGTATTCTTGGGTGTGGATACAGGAAGGCACTGGCTTACTCGGGTGCTCTTACCTTCTAGTCACTTGC
CCCATGGGAATGGAATGAGCTGGGAGCCCCCTCCCTGGGTGACTGCTCACTCAGCCTCTGTGATGGCAGTGTGAG
CTGGACTGTGTGAGCCACGACTCGAGCACTCATTCTGCTCCCTATGTTATTTCAAGGGCCTCCAAGGGCAGCTTT
TCTCAGAATCCTTGATCAAAAAGAGCCAGTGGGCCCTGCCTTAGGGTACCATGCAGGACAATTCAAGGACCAGCCT
TTTTACCACTGCAGAAGAAAGACACAATGTGGAGAAATCTTAGGACTGACATCCCTTTACTCAGGCAAACAGAAG
TTCCAACCCCACTAGGGGTCAGGCAGCTAGCTACCTACCTTGCCCAGTGCTGACCCGGACCTCCTCCAGGATA
CAGCACTGGAGTTGGCCACCACCTCTTCTACTTGCTGTCTGAAAAACACCTGACTAGTACAGCTGAGATCTTGG
CTTCTCAACAGGGCAAAGATACCAGGCCTGCTGCTGAGGTCACTGCCACTTCTCACATGCTGCTTAAGGGAGCAC
AAATAAAGGTATTTCGATTTTTTAAAGATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1487

MRGQRSLLLGPARLCLRLLLLLGYRRRCPPLLRGLVQRWRYGKVCLRSLLYNSFGGSDTAVDAAFEFVYWLVDNV
IRWFGVGRNDIATVSICKKCIYPKPARTHHCSICNRCVLKMDHHCPWLNNCVGHYNHRYFFSFCCFFMTLGCVYCS
YGSWDLFREAYAAIETYHQTPPPTFSFRERMTHKSLVYLWFLCSSLVALALGALTVWHAVLISRGETSIERHINKK
ERRRLQAKGRVFRNPYNYGCLDNWKVFLGVDTGRHWLTRVLLPSSHLPHGNGMSWEPPPWVTAHSASVMAV

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FIGURE 1488A

GAGCCGGTGGCGCAGGTGTCTGGGGTCTCTGAGCGCCAGCCTGGGAGCATGATTGTGGACAAGCTGCTGGACGAC
AGCCGCGGGCGGAGAGGGGCTGCGGGACGCGGCGGGCGGCTGCGGCCCTCATGACCAGCCGCTCAACCTGAGCTAC
TTCTACGGCGCGTCTGCGCGCCCGCCGCGCCCGGGCGCCTGCGACGCCAGCTGCTCGGTCTTTGGGCCCCCTCGGGC
CCCGGCTCGCCCGGCTCCGACTCCTCCGACTTCTCCTCTGCCTCGTCTGGTGTCTCTCTGCGGCGCCGTGGAGTCC
CGGTGAGAGGCGGCGCCCGCGCCGAGCGCCAGCCAGTTGAGCCCCATATGGGGGTTGGCAGGCAGCAGAGAGGC
CCCTTTCAAGGTGTTCTGGGTAAAGAACTCAGTGAAGGAACTCCTGTTGCACATCCGAAGTCATAAACAGAAGGCT
TCTGGCCAAGCTGTGGATGATTTTAAGACACAAGGTGTGAACATAGAACAGTTCAGAGAATTGAAGAACACAGTA
TCATACAGTGGGAAAAGGAAAGGGCCCCGATTGCTTGTCTGATGGACCTGCTTGCAAAGGCCAGCTCTGTTGCAT
TCCCAATTTTTGACACCACCTCAAACACCAACGCCCGGGGAGAGCATGGAAGATGTTTCATCTCAATGAACCCAAA
CAGGAGAGCAGTGTCTGATCTGCTTCAGAACATTATCAACATTAAGAATGAATGCAGCCCCGTTTCCCTGAACACA
GTTCAAGTTAGCTGGCTGAACCCCGTGGTGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTTCAGGACTTCCATGGA
GGGCAGGTCTTTTCTCCACCTCAGAAATGCCAACCATTCCAAGTCAGGGGCTCCCAACAAATGATAGACCAGGCT
TCCCTGTACCAGTATTCTCCACAGAACCAGCATGTAGAGCAGCAGCCACACTACACCCACAAACCAACTCTGGAA
TACAGTCTTTTTCCCATACCTCCCCAGTCCCCCGCTTATGAACCAAACCTCTTTGATGGTCCAGAATCACAGTTT
TGCCCAAACCAAAGCTTAGTTTCCCTTCTTGGTGATCAAAGGGAATCTGAGAATATTGCTAATCCCATGCAGACT
TCCTCCAGTGTTCAGCAGCAAAATGATGCTCACTTGCACAGCTTCAGCATGATGCCAGCAGCGCTGTGAGGCC
ATGGTGGGGCACGAGATGGCCTCTGACTCTTCAAACACTTCACTGCCATTCTCAAACATGGGAAATCCAATGAAC
ACCACACAGTTAGGGAAATCACTTTTTCAGTGGCAGGTGGAGCAGGAAGAAAGCAAATTGGCAAATATTTCCCAA
GACCAGTTTCTTTCAAAGGATGCAGATGGTGACACGTTCTTCATATTGCTGTTGCCAAAGGGAGAAGGGCACTT
TCCTATGTTCTTGCAAGAAAGATGAATGCACCTCACATGCTGGATATTAAAGAGCACAATGGACAGAGTGCCTTT
CAGGTGGCAGTGGCTGCCAATCAGCATCTCATTGTGCAGGATCTGGTGAACATCGGGGCACAGGTGAACACCACA
GACTGCTGGGGAAGAACACCTCTGCATGTGTGTGCTGAGAAGGGCCACTCCCAGGTGCTTCAGGCGATTGAGAAG
GGAGCAGTGGGAAGTAATCAGTTTGTGGATCTTGAGGCAACTAACTATGATGGCCTGACTCCCCCTTCACTGTGCA
GTCATAGCCCACAATGCTGTGGTCCATGAACTCCAGAGAAATCAACAGCCTCATTACCTGAAGTTCAGGAGCTT
TTACTGAAGAATAAGAGTCTGGTTGATACCATTAAAGTGCCTAATTCAAATGGGAGCAGCGGTGGAAGCGAAGGAT
CGCAAAAGTGGCCGCACAGCCCTGCATTTGGCAGCTGAAGAAGCAAATCTGGAACCTCATTGCGCTCTTTTTGGAG
CTGCCCAGTTGCTGTCTTTTGTGAATGCAAAGGCTTACAATGGCAACACTGCCCTCCATGTTGCTGCCAGCTTG
CAGTATCGGTTGACACAATTAGATGCTGTCCGCTGTTGATGAGGAAGGGAGCAGACCCAAAGTACTCGGAACCTTG
GAGAACGAACAGCCAGTGCATTTGGTTCCCGATGGCCCTGTGGGAGAACAGATCCGACGTATCCTGAAGGGAAAG
TCCATTACAGCAGAGAGCTCCACCGTATTAGCTCCATTAGCTTGGAGCCTGGCTAGCAACACTCACTGTGAGTTAG
GCAGTCTGATGTATCTGTACATAGACCATTGTCCTTATATTGGCAAATGTAAGTTGTTTCTATGAAACAAACAT
ATTTAGTTCACTATTATATAGTGGGTTATATTAAGAAAGAAAGAAATATCTAATTTCTCTTGGCAGATTG
CATATTTATACCCAGGTATCTGGGATCTAGACATCTGAATTTGATCTCAATGGTAACATTGCCTTCAATTAACA
GTAGCTTTTGAGTAGGAAAGGACTTTGATTTGTGGCACAAAACATTATTAATATAGCTATTGACAGTTTCAAAGC
AGGTAAATTGTAAATGTTTCTTTAAGAAAAAGCATGTGAAAGGAAAAAGGTAAATACAGCATTGAGGCTTCATTT
GGCCTTAGTCCCTGGGAGTTACTGGCGTTGGACAGGCTTCAGTCATTGGACTAGATGAAAGGTGTCCATGGTTAG
AATTTGATCTTTGCAAACGTATATAAATTGTTATTTTTGTCTTAAAAATATTGTACATACTGGTTGTTAACAT
GGTCATATTTGAAATGTATAAGTCCATAAAATAGAAAAGAACAAAGTGAATTGTTGCTATTTAAAAAATTTTACA
ATTCTTACTAAGGAGTTTTTATTGTGTAATCACTAAGTCTTTGTAGATAAAGCAGATGGGGAGTTACGGAGTTGT
TCCTTTACTGGCTGAAAGATATATTGCAATTGTAAAGATGCTTTTTCTCATGCATTGAAATTATACATTATTTGT
AGGGAATTGCATGCTTTTTTTTTTTTTCTCCCGAGACAGGGTCTTGCTCTGGCGCCAGGCTGGAGTACAGTGG
CATGATCTTGGCTCACTTCAGCCTTGACTTGGGCTCAAGTGATCCTCCTACCTGAGCCTTCTGAGTAACTGGGAC
TACAGGTGTGCACTCCTCGCCTGGCTAATTTTTTATTTTTTGTACAGGCAGGATCTTGCCACCTTGCCAGGCTG
GTCTTGAACCTCTGAGCTCATGCCATCTGCCTGCCTTAGTCTCCAAAATGCTGGGATTACAGGAGTGAGCCACC
ATGCCCCGGCTGGCAGTTGCATGGAAGAGAACACCTCTTTATGGCTTACCTCTAGAATTTCTAATTTATGTGTTT
TGTTGAAATTTTTGTTTTTTTACCTTTATTGAAACAACAAAAGTCAGTATTGAAACATATCTTCCTGTTTTCTG
TTGTCAAATGATGATAATGTGCCATGATGTTTTATATATATCATTGAGAAAAAGTTTTATTTTTTAATAACATTC
TATTAACATTATTTGCTTGCCGCTGGCATGCCTGAGGAATGTATTTGGCTTTGATTACACACTAAGTTTTTGTA

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FIGURE 1488B

ATAAATTTGACTCATTAAAAACCTTTTTTTTTTAAAAAAAAAAAAAAAAAGAAATCTCATTAGTGAAC TTATCTTTG
CAGCTGAGTACTTAAATTCTTTTTAAAAAGATACCCTTTGGATTGATCACATTGTTTGACCCAGTATGTCTTGTA
GACACGTTAGTTATAATCACCTTGTATCTCTAAATATGGTGTGATATGAACCAGTCCATTACATTGGAAAACT
GATGGTTTTAAATAAACTAATTCAC TAATAAAAAAAAAAAAAAAAAA

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FIGURE 1489

MIVDKLLDDSRGGEGLRDAAGGCGLMTSPLNLSYFYGASPPAAAPGACDASCSVLGPSAPGSPGSDSSDFSSASS
VSSCGAVESRSRGGARAERQPVPHMGVGRQQRGPFQGV RVKNSVKELLHIRSHKQKASGQAVDDFKTQGVNIE
QFRELKNTVSYSGKRKGPDLSLSDGPACKRPALLHSQFLTPPQTPTPGESMEDVHLNEPKQESSADLLQNI INIKN
ECSPVSLNTVQVSWLNPVVVPQSSPAEQCQDFHGGQVFSPQKQPFQVRGSQQMIDQASLYQYSPQNQHVEQQP
HAPTLEYSPFPIPPQSPAYEPNLFDPESQFCPNQSLVSLLDQRESENIANPMQTSSSVQQQND AHLHSFS
ACEAMVGHEMASDSSNTSLPF SNMGNPMNTTQLGKSLFQWQVEQEESKLANISQDQFLSKDADGDTFLHI
GRRALSYVLARKMNALHMLDIKEHNGQSAFQVAVANQH LIVQDLVNIGAQVNTTDCWGRTPLHVCAEKGH
SQVLQAIQKGAVGSNQFVDLEATNYDGLTPLHCAVIAHNAVVELQRNQPHSPEVQELLLKNKSLVDTIKCLIQ
EAKDRKSGRTALHLAAEEANLELIRLFLELPSCLSFVNAKAYNGNTALHVAASLQYRLTQLDAVRLLMRK
GSTRNLENEQPVHLVPDGPVGEQIRRIKKGKSIQQRAPPY

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FIGURE 1490

ATGGGGAGGTCCTCCATGCGCAGTCATGAGTCGCTTCAAGTTTATCGATATTGGTATCAACTTGACTGACCCTAT
GTTTCAGAGGAATTTATAGGGGGGTTCAAAAGCATCAAGATGACTTACAGGATGTAATAGGGAGAGCTGTCGAGAT
TGGTGTAAAAAGTTTATGATTACAGGTGGAAATCTACAAGACAGTAAAGATGCACTGCATTTGGCACAACAAA
TGGTATGTTTTTTCAGTACAGTTGGATGTCATCCTACAAGATGTGGTGAATTTGAAAAGAATAACCCCTGATCTTTA
CTTAAAGGAGTTGCTAAATCTTGCTGAAAACAATAAAGGGAAGTTGTGGCAATAGGAGAATGCGGACTTGATTT
TGACCGACTGCAGTTTTGTCCCAAAGATACTCAACTCAAATATTTTGAAAAACAGTTTGAACTGTCAGAACAAAC
AAAATTACCAATGTTTCTTCATTGTGCGAACTCACATGCTGAATTTTGGACATAATGAAAAGAAATAGAGATCG
GTGTGTAGGGGGAGTGGTGCATTCAATTTGATGGTACCAAGGAAGCAGCAGCTGCTTTGATTGACTTGGATCTTTA
TATAGGATTTAATGGTTGCTCACTGAAAAGTGAAGCTAATTTGGAAGTTTGAAGTCAATTCCTAGTGAAAAATT
AATGATTGAGACAGATGCACCTTGGTGTGGAGTCAAAAGTACACATGCTGGATCAAAATATATAAGAACTGCATT
TCCTACCAAAAAGAAGTGGGAAAGTGGGCACTGCTTAAAGACAGAAATGAACCCTGCCATATAATTCAAATATT
GGAGATAATGTCAGCAGTGAGAGATGAGGATCCACTGGAATTAGCCAATACACTATATAACAATACTATTAAAGT
ATTTTTTCTGGAATATAATTGGTATATGTCTTCCACTTCCATCATGTATGTAAAATTCATAGTAAAACCTTCC
TGATAGTTTCAATAAAGAAATTATCTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1491

MSRKFIDIGINLTDPMFRGIYRGVQKHQDDLQDVIGRAVEIGVKKFMITGGNLQDSKDALHLAQTNGMFFSTVG
CHPTRCGEFKNNPDLYLKELLNLAENNKGVVAIGECGLDFDRLQFCPKDTQLKYFEKQFELSEQTKLPMFLHC
RNSHAEFLLDIMKRNDRDRCVGGVVHSFDGTKEAAAALIDLIDLYIGFNGCSLKTEANLEVLKSIPSEKLMIEDAPW
CGVKSTHAGSKYIRTAFTPTKKKWESGHCLKDRNEPCHIIQILEIMSAVRDEDPLELANTLYNNTIKVFFPGI

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FIGURE 1492

CGGAGCCCCTCGGCGGGCGCCCGGCCAGGACCCGCCTAGGAGCGCAGGAGCCCCAGCGCAGAGACCCCAACGCCG
AGACCCCCGCCCCGGCCCCGCCGCGCTTCCTCCCGACGCAGAGCAAACCGCCAGAGTAGAAGATGGATTGGGGC
ACGCTGCAGACGATCCTGGGGGGTGTGAACAAACACTCCACCAGCATTGGAAAGATCTGGCTCACCCTCCTCTTC
ATTTTTCGCATTATGATCCTCGTTGTGGCTGCAAAGGAGGTGTGGGGAGATGAGCAGGCCGACTTTGTCTGCAAC
ACCTTGACAGCCAGGCTGCAAGAACGTGTGCTACGATCACTACTTCCCCATCTCCACATCCGGCTATGGGCCCTG
CAGCTGATCTTCGTGTCCACGCCAGCGCTCCTAGTGGCCATGCACGTGGCCTACCGGAGACATGAGAAGAAGAGG
AAGTTCATCAAGGGGGAGATAAAGAGTGAATTTAAGGACATCGAGGAGATCAAACCCAGAAGGTCCGCATCGAA
GGCTCCCTGTGGTGGACCTACACAAGCAGCATCTTCTCCGGGTTCATCTTCGAAGCCGCCTTCATGTACGTCTTC
TATGTCATGTACGACGGCTTCTCCATGCAGCGGCTGGTGAAGTGAACGCCTGGCCTTGTCCCAACACTGTGGAC
TGCTTTGTGTCCCGGCCACGGAGAAGACTGTCTTCACAGTGTTCATGATTGCAGTGTCTGGAATTTGCATCCTG
CTGAATGTCAGTGAATTGTGTTATTTGCTAATTAGATATTGTTCTGGGAAGTCAAAAAGCCAGTTTAAACGCATT
GCCCAGTTGTTAGATTAAAGAAATAGACAGCATGAGAGGGATGAGGCAACCCGTGCTCAGCTGTCAAGGCTCAGTC
GCCAGCATTTCCCAACACAAAGATTCTGACCTTAAATGCAACCATTTGAAACCCCTGTAGGCCTCAGGTGAAACT
CCAGATGCCACAATGGAGCTCTGCTCCCCATAAGCCTCAAAACAAAGGCCTAATTCTATGCCTGTCTTAATTTTC
TTTCACTTAAGTTAGTTCCACTGAGACCCAGGCTGTTAGGGGTTATTGGTGTAAAGGTACTTTTCATATTTTAAAC
AGAGGATATCGGCATTTGTTTCTTCTCTGAGGACAAGAGAAAAAGCCAGGTTCCACAGAGGACACAGAGAAGG
TTTGGGTGTCTCCTGGGGTTCTTTTGGCAACTTTCCCCACGTTAAAGGTGAACATTGGTTCTTTTCATTGCTT
TGGAAGTTTTAATCTCTAACAGTGGACAAAGTTACCAGTGCCTTAAACTCTGTTACACTTTTTGGAAGTGAAAAC
TTTGTAGTATGATAGGTTATTTTGATGTAAAGATGTTCTGGATACCATTATATGTTCCCCCTGTTTCAGAGGCTC
AGATTGTAATATGTAAATGGTATGTCATTGCTACTATGATTTAATTTGAAATATGGTCTTTTGGTTATGAATAC
TTTGCAGCACAGCTGAGAGGCTGTCTGTTGTATTTCATTGTGGTCATAGCACCTAACAACATTGTAGCCTCAATCG
AGTGAGACAGACTAGAAGTTCCTAGTGATGGCTTATGATAGCAAATGGCCTCATGTCAAATATTTAGATGTAATT
TTGTGTAAGAAATACAGACTGGATGTACCACCACTACTACCTGTAATGACAGGCCTGTCCAACACATCTCCCTT
TTCCATGACTGTGGTAGCCAGCATCGGAAAGAACGCTGATTTAAAGAGGTCGCTTGGGAATTTTATTGACACAGT
ACCATTTAATGGGGAGGACAAAATGGGGCAGGGGAGGGAGAAGTTTCTGTCGTTAAAAACAGATTGGAAGACT
GGACTCTAAATTCTGTTGATTAAAGATGAGCTTTGTCTACTTCAAAAGTTTGTGTTGCTTACCCCTTCAGCCTCCA
ATTTTTTAAGTGAAAATATACTAATAACATGTGAAAAGAATAGAAGCTAAGGTTTAGATAAATATTGAGCAGAT
CTATAGGAAGATTGAACCTGAATATTGCCATTATGCTTGACATGGTTTCCAAAAATGGTACTCCACATACTTCA
GTGAGGGTAAGTATTTTCTGTTGTCAAGAATAGCATTGTAAAGCATTGTAATAATAAAGAATAGCTTTAAT
GATATGCTTGTAACATAAATAATTTTGTAAATGTATCAAATACATTTAAACATTAAATATAATCTCTATAATAA
AAAAAAAAAAAAA

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FIGURE 1493

MDWGTLTQILGGVNKHSTSIGKIWLTVLFIFRIMILVVAAKEVWGDEQADFVCNTLQPGCKNVCYDHYFPISHIR
LWALQLIFVSTPALLVAMHVAYRRHEKKRKF IKGEIKSEFKDIEEIKTQKVRIEGLWWTYTSSIFFRVIFEAAF
MYVFYVMYDGF SMQRLVKCNAWPCPNTVDCFVSRPTEKTVFTVFMIAVSGICILLNVTEL CYLLIRYCSGKSKKP
V

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FIGURE 1494

GAGGCGCCGGCGGCCACGCCGCGGAAGGCGGGGCCGAGCAGAGCCGGGCGTTGGAGCCCGCGCGCATGGAGG
CGTTGCCGGCAGCCCCCTGAGGGCAGCGGGGAGACAAGACCCGGCGACCTCGCGCATCCCTCGAGCCGCCACGCG
CTCTCGCCACCGGGCGGGCAGCGGGCCGCGGAGCCGGCGCGGCCATGCGACGGGCGGCCAGCAGAAGGAGAACAC
GCTGCTTCACCTCTTCGCCGGCGGGTGTGGAGGCACAGTTGGTGCTATTTTCACTTGTCCTACTAGAAGTCATTAA
GACACGGTTGCAGTCTTCAAGATTAGCTCTCCGGACAGTCTACTATCCTCAGGTTTCATCTGGGGACCATTAGTGG
AGCTGGAATGGTGAGACCAACATCCGTGACACCTGGACTCTTTCAGGTTCTGAAGTCGATCTTGGAGAAAGAGGG
ACCAAAGTCACTTTTTAGAGGCTTGGGTCCAAATTTGGTTGGAGTTGCACCATCAAGGGCTGTATACTTTGCATG
TTACTCCAAAGCCAAAGAGCAATTTAATGGCATTTCGTGCCTAACAGCAATATTGTGCATATTTTCTCAGCTGG
CTCTGCAGCTTTTATCACAAATTCCTTAATGAATCCTATATGGATGGTTAAAACCCGAATGCAGCTAGAACAGAA
AGTGAGGGGCTCTAAGCAGATGAATACACTCCAGTGTGCTCGTTACGTTTACCAGACCGAAGGCATTTCGTGGCTT
CTATAGAGGATTAAGTGCCTCGTATGCTGGAATTTCCGAACTATAATCTGCTTTGCTATTTATGAAAGTTTAAA
GAAGTATCTGAAAGAAGCTCCATTAGCCTCTTCTGCAAATGGGACTGAGAAAAATTCCACAAGTTTTTTTGGACT
TATGGCAGCTGCTGCTCTTTCTAAGGGCTGTGCCTCCTGCATTGCTTATCCACACGAAGTCATAAGGACGAGGCT
CCGGGAAGAGGGCACCAAGTACAAGTCTTTTGTCCAGACGGCGCGCCTGGTGTTCCGGGAAGAAGGCTACCTTGC
CTTTTATAGAGGACTGTTTGCCAGCTTATCCGGCAGATCCCAAATACTGCCATTGTGTTGTCTACTTATGAGTT
AATTGTGTACCTGTTAGAAGACCGTACTCAGTTAACAGGCCGGAAAATTGTGCTCTAGAAGAATAAACTGAAAAA
CTCTAGAGAATTTTTTTTCCCATTTGATGTTTAGAAAGTTTGAGACTGAAACAGGAAAGGCCATAAAATATCTGG
TTCATATCACCTGTTGGACATTTCTTTTGGATTTCATGCTTTCTGGAAGGTTTAAATTCATTAACGTTAATAGTT
AATTATACTTTTTTTTAACTTAAGAGGATTCAGGGTTAAGCACCAACTAAATTAAATCATGCTATTTAATTTAA
GTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACC

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FIGURE 1495

MATGGQOKENTLLHLFAGGCGGTVGAIFTCPLEVIKTRLQSSRLALRTVYYPQVHLGTISGAGMVRPTSVTPGLE
QVLKSILEKEGPKSLFRGLGPNLVGVAPSRVYFACYSKAKEQFNGIFVPNSNIVHIFSAGSAAFITNSLMNPIW
MVKTRMQLEQKVRGSKQMNTLQCARYVYQTEGIRGFYRGLTASYAGISETIICFAIYESLKKYLKEAPLASSANG
TEKNSTSFFGLMAAAALSKGCASCIAYPHEVIRTRLREEGTKYKSFVQTARLVFREEGYLAFYRGLFAQLIRQIP
AIVLSTYELIVYLLEDRTQ

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FIGURE 1496

GGCAGCCGTCTGTGCCACCCAGAGCCGGCGGGCCGCTAGGTCCCCGGAGACCCTGCTATGGTGCGTGCGGGCGCC
GTGGGGGGCTCATCTCCCCGCGTCCGGCTTGGATATCTTCGGGGACCTGAAGAAGATGAACAAGCGCCAGCTCTAT
TACCAGGTTTTAACTTCGCCATGATCGTGTCTTCTGCACTCATGATATGGAAAGGCTTGATCGTGCTCACAGGC
AGTGAGAGCCCCATCGTGGTGGTGCTGAGTGGCAGTATGGAGCCGGCCTTTCACAGAGGAGACCTCCTGTTCCCTC
ACAAATTTCCGGGAAGACCCAATCAGAGCTGGTGAAATAGTTGTTTTAAAGTTGAAGGACGAGACATTCCAATA
GTTACAGAGTAATCAAAGTTCATGAAAAAGATAATGGAGACATCAAATTTCTGACTAAAGGAGATAATAATGAA
GTTGATGATAGAGGCTTGTAACAAGAAGGCCAGAAGCTGGCTGGAAAAGAAGGACGTGGTGGGAAGAGCAAGAGGG
TTTTTACCATATGTTGGTATGGTCACCATAATAATGAATGACTATCCAAAATTCAAGTATGCTCTTTTGGCTGTA
ATGGGTGCATATGTGTTACTAAAACGTGAATCCTTAAAATGAGAAGCAGTTCCTGGGACCAGATTGAAATGAATTC
TGTTGAAAAAGAGAAAACTAATATATTTGAGATGTTCCATTTTCTGTATAAAAGGGAACAGTGTGGAGATGTTT
TTGTCTTGTCCAAATAAAAGATTCACCAGTAAAAAAAAAAAAAA

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FIGURE 1497

MVRAGAVGAHLPASGLDIFGDLKKMNKRQLYYQVLNFAMIVSSALMIWKGLIVLTGSESPIVVVLSGSMEPAFHR
GDLLFLT NFREDPIRAGEIVVFKVEGRDIPVHRVIKVHEKDNGDIKFLTKGDNNEVDDRGLYKEGQNWLEKKDV
VGRARGFLPYVGMVTIIMNDYPKFKYALLAVMGAYVLLKRES

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FIGURE 1498

GCGGAGCCGGGGCTGGAGAGCGGCGACCACTGCGGATCTCGGAAGGAAGAAATGATGTAAATCACTCATCCAAAC
TTTAAGGTCAAAGGTGAGAAGGAAGGTGAGGAAGAACAATGGCCTGGCCAAATGTTTTTCAAAGAGGGTCTCTGCT
GTCCAGTTCAGCCATCATCATGTTGTAGTGTTCCTGCTCACTTTCTTCAGTTATTCGTTGCTCCATGCTTCACG
AAAAACATTTAGCAATGTCAAAGTCAGTATCTCTGAGCAGTGGACCCCAAGTGCTTTTAAACACGTCAGTTGAGCT
GCCTGTGGAGATCTGGAGCAGCAACCATTGTTTCCCAAGTGCAGAGAAAGCGACTCTTTTCTCGGCACACTGGA
TACCATTTTCTCTTCTATGCTGTGGGCTATTTCATCAGTGGCATCGTTGGGGATCGGTTGAATTTGCGATG
GGTCTGTCTTTTGGCATGTGCTCTTCTGCATTAGTGGTGTGTTGTCTTTGGTGCCTCACAGAATGGCTGCGTTT
CTACAACAAATGGCTGTACTGCTGCTGTGGATTGTGAACGGCTGCTGCAGTCCACTGGTTGGCCCTGTGTGGT
TGCTGTTATGGGCAACTGGTTTGGGAAAGCCGGACGAGGAGTTGTTTTTGGTCTCTGGAGTGCCTGTGCTTCGGT
GGGCAACATTTTGGGAGCGTGCCTAGCTTCTTCTGTTCTTCAGTATGGTTATGAGTATGCCTTTCTGGTGACGGC
GCTGTGTCAGTTTGTGGTGGGATCGTTATCTTCTTGGACTCCTGGTGTACCAGAAGAAATGGTCTCTCGGG
TATTGAGGCAGAAGAAACCTTTGAAGAAGACTCACACAGGCCATTAAATTAATGGTGGTGAAAATGAAGACGAATA
TGAGCCGAATTATTCAATCCAAGATGATAGTTCTGTTGCCAAGTCAAGGCGATAAGCTTCTACCAGGCATGTTG
CCTTCTGGAGTCATACCGTACTCACTGGCCTACGCTGCTTGAAGTTAGTGAATTACTCCTTCTTCTTCTGGCT
CCCCTTTTATCTGAGTAACAACCTTCGGCTGGAAGGAGGCGGAAGCCGACAAGCTGTCCATTTGGTACGACGTTGG
AGGGATCATAGTATTTAGTGTCTCTGATCCGGGACAAGCTAGGATGGATGTGGGTTTTCTACTTTTTTCAATTCTCA
TGACAAGTTGTACAATTGTGTTTATCTCGCCATTAAATAGTGAGGGAATATTCTCTCTCGTGCTAAGGAGACAGG
CTCACATATTGAGGGAGTGACCGGTGCCCGGAGACAGAAAGAACAAATGTCAGCCACATCAGGACCGCTGGGGCT
TCGAGTCTGCCCTAATTTGGGTTTGTCTAGGAGCTCCAGCCTGATCTTGGATTGTCAGGCGTCTCTCAACACTGC
CAGCCACCTGAGATGCTGACCAAGCAGTGAAGGCTGCACCTAGTTTTCTACTACAGGAATTACTGTTGATGATT
TTGCTGTTGTTTTCATGAATGTGCCGAGTGACTTCTGACTCTGCCAGCATCTTTGACCTCTGACTCTGCCCGCTC
TTTGTGTTGGCCTATTGAGGTTTAGCGTTTTAACCTTAAGTGTGTTTTGGACTTGAACCTTCTCTAGCCTTGAAA
ATGGAGTGAACAGGAGGCAAAGCCACGCGTGGTTTGTGTTGGTGGTATGTTCCACAAATGGAAGAGATCATTGCA
TTTTGCTTTGGTAATGAGTTTACAGAGAGTGGGTATCTTTGAAGCATCAAATCCTGATCAAATGCTCAAGCTGG
ACCGAGCTGCAAGCCTGCCTTGGACAAAGAATCCCTCTGTTCACTGTGGTGGGAAAGATCACACTACATGCCTGT
TGATTGGCTCAGTCACTCTGTGTCTGATCTAAACGTCATTACAGCCCTAGAAGCATGAATTGCTTCAAATTATTGT
CAACTTGTTCTCTTCCATTTTCATTCAAATTAACCTTTGACTCCTGGAAGTATTGAGTCTTCCTTTCAAGGACCAT
AAGGTACATCAGTTATCTTGAACATTCTGACGTGTAAAGGACCATAAGGTACATCATTTTATCTTGAACATTCCGA
CGTGTAACACAGCCGAAGCACTCCATCCCAGATTTGTTGTCTGGGAACTTTAGGATCCTCTAGGAAGCTAATC
TGCTTAGTCTATTTTTAGAGGATTGATCTCTGGCACAACCAGCTTCTGGAGTTACCTCAGCAGAAGACTAGAAT
TAGAGAAAAGGGAAAGACCTTTTCTTCTAGTAAGTGTCAAGTACAGATGCTCTTTGACTTATGATGGGGTTATGT
CCCAGTAAACCCATTGGAAGTCAAATGCATTTAATACCCCTGACTGGACACCACAGCTTAGCCTCGTCCACCCTA
AATGTACTCAGAACACTTAGAATTGCCCACAGTTGGGCAGAATCATCTAACACAACTCTATTTTATAATCGAGT
GTTGAATATATCATGTAATTTATTGAATATTGTACATTATGTTGAAATTGCAACCATTTACACCATTGTAAAGT
CCAAAAATCAGAAGCTGAGGACTGTCTGTACATGACATTGAATCACATGAATGGATTACTAGGGCCTGAGGGGTG
TCCGTTCTTTAGAAAAATGTAGAGTATATATATCTTCAGGGCTGTGAATTCATACTAGTTATCAATATTTTAA
ATCATTCTGTATATACATATTTTAAATTATGCAAGCAAACTAGGAGGAGAATGTGCAATTTTGGGGATACCTAA
TTTGCAATTCGGTTAGGGGATATTTTCAACCTCTGCTTTTACTCTGATATGGGGTGTGTTTATGAACTTGTTA
ATGTTATTTAATCATGCAGATTTCCAATCAGTGTATTGCTCATTTACTGACAAAAAGGGAAAAATACGAAACACAG
AAAGGGAAAAATAAAGTACTTTTATAATGAAAAA

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FIGURE 1499

MAWPNVFQGSLLSQFSHHVVFLLTFFSYSLHASRKTFSNVKVSISEQWTPSAFNTSVELPVEIWSSNHLFP
SAEKATLFLGTLDTIFLFSYAVGLFISGIVGDRNLNRWVLSFGMCSSALVVFVEGALTEWLRFYKNWLYCCLWIV
NGLLQSTGWPCVVAVMGNWFGKAGRGVVFGLWSACASVGNILGACCLASSVLQYGYEYAFLVASVQFAGGIVIFF
GLLVSP EEIGLSGIEAEENFEEDSHRPLINGGENEDEYEPNYSIQDDSSVAQVK AISFYQACCLPGVIPYSLAYA
CLKLVNYSFFFWLPFYLSNNFGWKEAEADKLSIWYDVGGIIVFSVSDPGQARMDVGFLLFHSHDKLYNCVYLAIN
SEGNILSRKETGSHIEGVTGARETERTMSATSGPLGLRVCPNLGLSRSSSLILDCQASLNTASHLRC

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FIGURE 1500

GTCAGGTGGCGTTTGGCTGTGGCGGCTAGGCCCGCGTGCCTGGAGACCTCCGCGCTGGCCCCGCGAGCCTCCTG
CCCTGGCCCCGCGCTGCGGCTCTGCCGCGGCGGCAGCATGGGTGGCCCCCGGGGCGCGGGCTGGGTGGCGGCGGG
CCTGCTGCTCGGCGCGGGCGCCTGCTACTGCATTTACAGGCTGACCCGGGGTCGGCGGCGGGGCGACCGCGAGCT
CGGGATACGCTCTTCGAAGTCCGCAGAAGACTTAACTGATGGTTCATATGATGATGTTCTAAATGCTGAACAACT
TCAGAAACTCCTTTACCTGCTGGAGTCAACGGAGGATCCTGTAATTATTGAAAGAGCTTTGATTACTTTGGGTAA
CAATGCAGCCTTTTCAGTTAACCAAGCTATTATTTCGTGAATTGGGTGGTATTCCAATTGTTGCAAACAAAATCAA
CCATTCCAACCAGAGTATTAAAGAGAAAGCTTTAAATGCACTAAATAACCTGAGTGTGAATGTTGAAAATCAAAT
CAAGATAAAGATATACATCAGTCAAGTATGTGAGGATGTCTTCTCTGGTTCTCTGAACTCTGCTGTGCAGCTGGC
TGGACTGACATTGTTGACAAACATGACTGTTACCAATGACCACCAGCACATGCTTCACAGTTACATTACAGACCT
GTTCCAGGTGTTACTTACTGGAAATGGAAACACGAAGGTGCAAGTTTTGAACTGCTTTTGAATTTGTCTGAAAA
TCCAGCCATGACAGAAGGACTTCTCCGTGCCCAAGTGGATTTCATTCTTTTCCCTTTATGACAGCCACGTAGC
AAAGGAGATTCTTCTTCGAGTACTTACGCTATTTTCAGAATATAAAGAAGTGCCTCAAAATAGAAGGCCATTTAGC
TGTCAGCCTACTTTCACTGAAGGTTTCATTGTTTTCTGTTACATGGAGAAGAATGTGCCAGAAAAATAAGAGC
TTTAGTTGATCACCATGATGCAGAGGTGAAGGAAAAGGTTGTAACAATAATACCCAAAATCTGATTGGTTCATATT
TTTCCAAAGAGTAATGCAGTCTGGATATAAATGTATTTTCTGTCTTCCTTATAAGGGGATTCTCCCAGCTGCTAA
ATTTAAACAGTAAATATCACATTTTGTCTTAACACAGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1501

MGGPRGAGWVAAGLLLGAGACYCIYRLTRGRRRGDRELGIRSSKSAEDLTDGSYDDVLNAEQLQKLLYLLESTED
PVI IERALITLGNNAAF SVNQAI IRELGGIPVANKINHSNQS I KEKALNALNNLSVNVENQIKIKIYISQVCED
VFSGSLNSAVQLAGLTLLTNMTVTNDHQHMLHSYITDLFQVLLTGNGNTKVQVLKLLNLSENPA MTEGLLRAQV
DSSFSLYDSHVAKEILLRVLTLEFQNIKNCLKIEGHLAVQPTFTEGSLFFLLHGEECAQKIRALVDHHD AEVKEK
: IIPKI

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FIGURE 1502

GGCACGAGGCCAGGTAATTTGAGCAAAGGCCACAGTGAACCTCCGGCGTGGCTGAGGAAGGAGGAGGCACCCACA
GGCTGCTGGGAGGAGAGCATAAGGCTCAAAATGGAAAATCATAAATCCAATAATAAGGAAAACATAACAATTGTT
GATATATCCAGAAAAATTAACCAGCTTCCAGAAGCAGAAAGGAATCTACTTGAAAATGGATCGGTTTATGTTGGA
TTAAATGCTGCTCTTTGTGGCCTCATAGCAAACAGTCTTTTTCGACGCATCTTGAATGTGACAAAGGCTCGCATA
GCTGCTGGCTTACCAATGGCAGGGATACCTTTTCTTACAACAGACTTAACTTACAGATGTTTTGTAAGTTTTCTT
TTGAATACAGGTGATTTGGATTGTGAAACCTGTACCATAACACGGAGTGGACTGACTGGTCTTGTATTGGTGGT
CTATACCCTGTTTTCTTGGCTATACCTGTAAATGGTGGTCTAGCAGCCAGGTATCAATCAGCTCTGTTACCACAC
AAAGGGAACATCTTAAGTTACTGGATTAGAAGTTCTAAGCCTGTCTTTAGAAAGATGTTATTTCTATTTTGCTC
CAGACTATGTTTTCAGCATACCTTGGGTCTGAACAATATAAACTACTTATAAAGGCCCTTCAGTTATCTGAACCT
GGCAAAGAAATTCACTGATTTTAAACAAATATGTAAACAAAAATAAAATGGTAAAAACAGAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1503

MENHKSNNKENITIVDISRKINQLPEAERNLLENGSVYVGLNAALCGLIANS LFRRILNVTKARIAAGLPMAGIP
FLT TDLTYRCFVSFPLNTGDLDCETCTITRSGLTGLVIGGLYPVFLAIPVNGGLAARYQSALLPHKGNILSYWIR
TSKPVFRKMLFPILLQTMFSAYLGSEQYKLLIKALQLSEPGKEIH

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FIGURE 1504

CTGCCAGCACTTAACTTTTCCCCCTACCCTGCTCCTCCTCCACAGCCGTCTTCTCTTTGCCTCAGCCACTT
CCTTCCTTCGCCTCACCCCTCCCCAGTGCACTGAAGAAGGTAACCGGGTCCAGACCCACGCGGCCAGTTCTCCG
GCGGGAAGGAAAACCGCGCAGAGAGGCAGCAATGAATGTGGATCACGAGGTAAACCTCTTAGTGGAGGAAATTCA
TCGTTTGGGTTCAAAAAATGCTGATGGAAAGTTAAGCGTGAAATTTGGGGTCCTCTTCCGTGATGATAAATGTGC
CAACCTCTTTGAAGCATTGGTAGGAACTCTTAAAGCTGCAAAACGAAGGAAGATTGTAACATATCCAGGAGAGCT
GCTTCTGCAAGGTGTTTCATGATGATGTTGACATTATATTACTGCAAGATTTAATGTGGTTTACATATCTTTATGTA
CTGCCATTTTTTGTTCCTGGTAAACTGGAATATAAAGTGAAAGAACAACATTTGAACATACTTAATGTATTTTT
ATAGAACTTTGTAAACGAAAGGAGATTTCATGTTTTAGAAAGTCTGTCCTTTTTTATATCTTGAAAGAAAATCTATG
TATGATGCTATAAAATAAATCCTATTATTTTTCTCAGGAATCTGGTTAGGAATTGCAGGCAATGAGATTTTTTGC
GGGGCAGGGATGGGAATGTTTGTTCATAAATAATTAGACATTTTCTATAGATATTTGACATTCTGCGAAAGCAAC
AAGCAAACCTGAAGACCAACTCCTATGAGAAATATTATGATGTTTATGTAATAAAGACATGTAAGTGTCAAATTTA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1505

CQHLTFPPTLLLLLSRLSLCLSHFLPSPHPPQCTEEGNRVQTHAAPVLRREGKPRREAAMNVDHEVNLLVEEIH
RLGSKNADGKLSVKFGVLFRRDDKCANLFEALVGTLKAAKRRKIVTYPGELLQGVHDDVDIILLQD

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FIGURE 1506A

CCTGCGGCTCCCCGGCTTTTCGGAGCCCGGGGGCGGCCTGTGGCGCGCGGAGCCCGCGCCGGACTGCGCCTCTTT
GGACCTTGAGGGGAAACATGCGTTTGCCKWGGATCRWTTGAAATTCGAGKYTRGGATMCSMGSCCGCCYGCCTG
MYTCKKCCGMSSCGCGGGYTTTTTCSTATTTTTCCTTTTGCTTTTTTTCCTTTTCTCCCTCCGGGTCTCCTTTTT
GACTCCCTCCCCCTTTATGCTCGCCAGCCCTCCCCCTGCTGCTGAGAAGTGGGGGAGGGTCTCGGCCCTCCAGGT
TCCCGCCCCACCGGGGCCCCGGGCGAGCATGGGGGGCAAGCAGAGCACGGCGGCCCGCTCCCGGGGCCCCCTTCCCG
GGGGTCTCCACCGATGACAGCGCCGTGCCGCCGCCGGGAGGGGCGCCCCATTTCCGGGCACTACCGGACGGGCGGC
GGGGCCATGGGGCTGCGCAGCCGCTCGGTGAGTCCGTGGCAGGCATGGGCATGGACCCAGCACGGCCGGGGGG
GTGCCCTTTGGCCTCTACACCCCGCCTCCCGGGGCACCGGCGACTCCGAGAGGGCGCCCGGGCGGGGAGGGTCT
GCGTCCGACTCCACCTATGCCCATGGCAATGGTTACCAGGAGACGGGCGGCGGTACCATAGAGACGGGATGCTG
TACCTGGGCTCCCGAGCCTCGCTGGCGGATGCTCTACCTCTGCACATCGCACCCAGGTGGTTTCAGCTCGCATAGT
GGTTTCAAGTGCCCCATTTGCTCCAAGTCTGTGGCTTCTGACGAGATGGAAATGCACCTTTATAATGTGTTGAGC
AAACCTCGCCTCTCCTACAACGATGATGTGCTGACTAAAGACGCGGGTGAGTGTGTGATCTGCCTGGAGGAGCTG
CTGCAGGGGGACACGATAGCCAGGCTGCCCTGCCCTGTGCATCTATCACAAAAGCTGCATAGACTCGTGGTTTGAA
GTGAACAGATCTTGTCGGGAACACCCTGCGGACTGACCTGCGGGCTTGCTTGCTGACTCCTCTCAAAGGGACAGA
GCGCCCCCTGCTCCAGGGAGGAGGCTCACCGGACCCTGGGGCAGAGCTGAGCTTGGGACACCAGCGGGAAACAGGGC
ACCCCTTCTGCACTGACTTCCAGATCATGGTTCTCCCTTCCCTCCCTGAGGACACCAAATTGGATGAGAGCAAGTT
TGAGAGAAGAATGAATCAACTGCTATCCTTCCCTCACCCCTCAGCCCAGGAGGGAAAGGGCATTCTTTTCTCA
TCTTTGAAAGGCATTGTGGGTCTGTCTTTAAAGTGTTTACAAAAAAATTATATAAAAAAAAGTCTAGTGTCG
ACTGGTGTTTTCCCTCGTGATGTTTACAGCTTGCTGTTTGCTGCCAGCCATAACCCACTCAGTGACAGACGAAC
ACAGCTAAGGCCTCGCTGCCAGCCTTCTGACGGCGGGCGAGCACACGGTCTCTTCCCTGCCCCAACTGGCCCTC
TCCACCACCAACTTCTCTACTTTGGGTTTGTTGGTTTTTCCCTCTATTTTTCTGGCTGGTTTTTTTGCTCTTTT
CTCCCTTGAGACCCTAATATCTTGACTTCATTGCCAAAAACAACCCATTGAGAACTTTCTTCCCTACTGATCCC
ATCTCTTTTCCCTTCTTCCCTCGTTCGGTCCGGTCAGTTCAGAGGATTTAACAATCACAAGTGTCTGCAAAAATG
CCTGAACATTATTCTTAGGCCCTCGTGGATTTTTTTTTTTTTCAGAAACTTAAACAAAAAAGACTTACTAAGAAA
TATGTACAGCTACCCCTGTTTTCAGGCATATGTTTGAGAACATTTTAGCCATTGATGTTACACGTGGCATCAG
CCCATGCAAGATAGGTTTCTGTATTTATATATTAAATAACAAAAAAACTTATAAAATGTTTAAAAAATGTTT
AAAGCTTGGGAGAAAAGCTTTCTTCATTAGTCAAGGTGTTTTGATATGGTATTAAATGTCTAATAAAGATGGC
ACTGCGTGATTTTATTTAATGRAAGTGTTATACAATCAAGAAATGGGGGCAAGGGGCTGCCCCCACTCCCTCA
CCTACCTCCTTAGCATTCCTTCAGGCTGCTACTCGGGGCTCCAGGTGTGTGAATTGGTCTCAGATAGTCAGGCC
TGGGTGGAGGGAGTGGAAGTCARGCGTGCTCTACAAGCTTCTTAACCTCTTAAGCATCATGGAACCAAGTCAG
CCCTCTGTGGAGTCATTGTGCCGGACCTCTGAAAAGATCTGCAGGGGCCAARATGTTGCARCCACCSGAGGCTGC
ARGGWYGTGGGTCTTCCAGGTGTGGGGCCAGCCCCCTCTTYCAGCCTTTGCTCCCCATCCCAGTTCCACT
CKCCCTGCCTGGTGKTTGCGTCTCAGTGCTTGAMTCAGGGCATGCTTCATTGAGGCCAGGAAGAGGCCCTGGT
TTGGGGCTGTGCCAGCTTCAGAGCCCTTGAACCAGAACCAACTGCTCAGGCTCACAAAAGTTGGCAAAATGCGGG
CTGGGCAGGCAGCTCGGGGCAGGGAGCAGTGCAGGCCTGGCCTGTGXTCCCGTGCCAGCGGGYCSGGAG
CAGCATTCCAGAGCCTCCTGCAGAGCCAGCGAAGGAAAGCTCTAGAGGGAGACGACTCCACCGCCTCTCTGCTCT
GACCCCTTCTCAGGCCCGCTGATGTGCTGGACCATCCCCCTGCTGCCACGGCCCCCTGGCTCCGCAGTCACCCCTCC
ATCAGATGCTTCCAGAAGCACCTACTCTGTGCAAGGGCATTACAAACAGGCCAGTGGGCAACGTGAGCCAGGGC
CAGCGGAGAAAACACTAAAGAAGACTTCGGTGGTTTCAGAGCCTGGGTCTCAGCGCGGGACCCGTCTGGGGTTGAAG
ACCTTKGGGGCTKTTGTGAGTYGGTGGCAGGAACGTGGGCTYTAGAMTGTGCATTACAGGCTCTCCTACTTGGCAG
AATGATCTTGGGGAAACGACTTCATCTGAACCTTCAGATATTTACATGTGAAGCGGGGACAAAACCATGCAGCTC
AGAGGTCCCTGTGGGGGCTGGGGGAGCTGCCCTGCAGGTCTTGGCACATGCACAGCAGGCTCCCCATAGCTTTGT
CACCACAAAGGGCACTGTTCTATTACAGCACCTCCTGCTTCTGCCTGGCAACTGTGTCTCCCTGTGCTATATTT
AATTCACCAGCAAAGCTGKCGGAGGCAGGGCCAGCCTGAAAGGAGATCTCCTTGCTGACCCCTGGGACCTGG
GAAATGGAGGCTTCATGTGCCCGCCTTGSSKYTTAAAGCCTGCTGGCTTTGGCAGTGCCATGGGTGAGCCGAGCA
GCTGTGAGGTGGGTGGGGCAGGGCTGTAGCCACGCCGGGTGCTATTCCAGGCTCTAGGGGCTGGTGCTCATCCCC
ACCCCGAGCGACTCCGTCTACCTGGCATGCTGCAGCCCTCTGCCGGCTGTGGTGTCTGAATTTGGACCCAGG
TTGCTGCTCTTGTTGTGGGGGTGGGATTGGGGCTGTCTGTGTTTCCAGGTGGAGCTCATGTTGTGATCCTCT

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FIGURE 1506B

AICTGGACAGCTCTCCAGAATCCTGTGTTGCCCCCTGTTCTGCCTTTCTGGGATGGGAGAGAAGGTGAGGGAGCCG
GCGAGCCAGGTTCTACCCCTCTCTGCTAAGGGCCTAGCACGCTTTGATGAGGTTCCCTGGACGTGAGACCCTCACAA
AGACCAACCATTCCCTCTAATAGCCATTTAACGGTACTGCAGTTCATGGGAAAATGTCTCATTCTTAGGAGATAG
ATGCTGGATTATATAGGTGAATGCCTTCAAGAAATGTGTAATTTAATTCCAAATAGTCCCCC AAAATACACAA
AATAAGGCCAAAATGTTCAATTGTTGAATCTGCAGTGGCTGGTATTTCAGTGAACAGTGTACTTGTTCCTTC
TTCTGTATGTTTGGAATTTTTCTTAATAAAAGATTGTGGGAAATGGTCATTGCTGAGCGCCTCCTAGTT
AGGCACTGGAGGGCGCATCAAAGAAGAGTCCTACCCAGGAGGGAGAGCGCAGCTGCTGCAGGATTCTCGCCT
GGAAGAGTGGGTGGCTGGCTGGCTGGCTGGAAGGGGAGGGGCGAGAGGGCTGTCTCGGTGATGAGCACACGCGTG
CGGTGGTTTGGGGAGAGGGCTGAGATTTGTCACCAGTGAGCCCTTGGCACGGTCTCTGCTCCCCACCAGGGC
GGGACAGAAACGTCACGGAGGAGTAGCCTC

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FIGURE 1507

MGGKQSTAARSRGPFPGVSTDDSAVPPPGGAPHFGHYRTGGGAMGLRSRSVSSVAGMGMDPSTAGGVPFGLYTPA
SRGTGDSERAPGGGGSASDSTYAHGNGYQETGGGHHRDGMPLYLGSRASLADALPLHIAPRWFSHSGFKCPICSK
SVASDEMEMHFIMCLSKPRLSYNDDVLTKDAGECVICLEELLQGD TIARLPCLCIYHKSCIDSWFEVNRSCPEHP
AD

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FIGURE 1508

ACGAGGATCCGGGTTCCAACCCAGGGGGAAAAATCGGCCTTTGACTGAAGAGGAGACCCGTGTCATGTTTGAGA
AGATAGCGAAATACATTGGGGAGAATCTTCAACTGCTGGTGGACCGGCCCGATGGCACCTACTGTTTCCGTCTGC
ACAACGACCGGGTGTACTATGTGAGTGAGAAGATTATGAAGCTGGCCGCCAATATTTCCGGGGACAAGCTGGTGT
CGCTGGGGACCTGCTTTGGAAAATTCATAAAACCCACAAGTTTCGGTTGCACGTACAGCTCTGGATTACCTTG
CACCTTATGCCAAGGGTTTTGGGGTGGCAGCCAAATCTACACAAGACTGCAGAAAAGTAGACCCCATGGCGATTG
TGGTATTTTCATCAAGCAGACATTGGGGAATATGTGCGGCATGAAGAGACGTTGACTTAAAACGAAGCCATTCCAA
GGACAGACGGCTGTATGGAAAGGCCGAGCTTTGTTTCCTGTGTTTGTGTGGACTCCACCATCATGTTGAATTTG
TCAACACTCTGGCCTCTTCAGGGACTTCTTATTTACTGTACTCTCTATCACTGACAAATGCAGGCTGGATTCTTA
TTATATACAGAGATGGCTCAAAAATGGGGTTTCAGATCTTTGTGACGAAATAGAATACTGTTTCATATTTGAATC
AGAGGGGCTTCTTGTCTGAGAAATAGGTTCAAATCATTGGAACCAGGAACAAGAATAGCTTATTGTTATCTGT
GATAACACTGTTTTCTAAACACAAGGATTTTCTTTTTTATTAATATGCAACATAGACATTGCCATAACAGAATAA
TAAACCACATGTGGGGTTTTAAAAATGAAATTTGGCTAATAGGAGCAATTCAGCTATTTTTCTATACAGTAATTG
GTGTGTGGTATAGAAGAAAAACGGGTTCAAACCCCACTTCTGCCACCTACCAGCTATATGGCCTTGAATGAGTCA
TTCAGCTTTAATAAGGTTTCAATTTCTTCTGTTTAAAAAGACACAAAACCTTGAAAATCAGCTTTGGCCATCTACCT
GAGAATTAGAAAGTCTGATTTTTTGGAATTAGAAATCATGATTGTAGGCTGGGCACAGTGGCTCGCGCCTGTAATC
CCAGCACTTTGGGAGGCCAAGGCGGACGGATCACTTGAGGTTAGGAGTTTGAGACCAGCCTGGCCAACATGGTGA
AACCCCATCTCTACTAAAAAATAAATAGGTTGTGGTGACACATGGCTGTGGTCCTAGTTACTTGGGAGGC
TGAGGCAGGAGAATGGCTTGAAGTGGGAAGCAGAGCTTGAGTGAGCCAAGATGGTGCCATTGCACTCCAGCCT
GGGCGTGACAGAGTGAGACTCCATCTGATTGTAAAGCATCTAGTACAGTGTCAGTGCCTTGGAATGATAGGTA
TGGAATAAATGGTAATTATTTTATATTATATATATTATGTATTCTGTTATTAAGTGTAGAGTTTATGAGTAT
AATTTGATTTTATTACCTTCTTTTTTACAAGCTGTTTTCTCAGTATTTTTCTTGATGGGATGACGCTAGGCTGG
AAAGTTTTTTTCATCACTATGATTTTATAAAACAATTTTTCTATGAACCTTTACTTACTTGACTGGATTGGACT
AAAAGCACTGATCAGAGGCCACGACATAAAAATTCAGTCCCTTTGTCTTCCCCGTGCCTCCCAAAGTTACTTTA
AGATCCTTAGAATATTTCTTTAAATATTTTATAGACAAAAATTTAAAGACTATCTGTATTGCAAAATTAACTA
TTTCTTTAATGAATATATTGCTTATTTTAAAGTTCAAAGGTGAAGTCTTTAAGAATAAAACATTACCAACTGCTG
CTTTTATATGTAAAAACAAAAAATAAAAAAAAAAAAAAAAAA

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FIGURE 1509

MRPLTEEETRVMFEKIAKYIGENLQLLVDRPDGTYCFRLHNDRVYYVSEKIMKLAANISGDKLVS LGTCFGKFTK
THKFRLHVTALDYLAPYAKGFGVAAKSTQDCRKVDPMIAIVVFHQADIGEYVRHEETLT

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FIGURE 1510

AACAGATCTTCATGAATGTCGCTATCTTTGAGGATGAAGTTTTTGTGAGTTACCACACACCAGGAACCTCTTTC
CACACAGCCTGCTGAGTGTGATTGCCAACTTCATCCCTTTCTCTGATCTCAACCAGAGTCCACGGAACATGTACC
AATGCCAGATGGGTAAGCAAACCTATGGGCTTTCCACTTCTCACTTATCAAGACCGATCGGATAACAACTGTATC
GTCTTCAGACTCCTCAGAGTCCCTTGGTGAGACCCTCCATGTATGATTATTATGACATGGATAACTATCCAATTG
GGACCAATGCCATCGTTGCTGTGATTTCTTACACTGGCTATGATATGGAAGATGCCATGATTGTGAATAAGGCCT
CTTGGGAACGAGGCTTTGCCCATGGAAGTGTCTACAAGTCTGAGTTCATAGACCTCTCTGAAAAAATTAAACAAG
GAGATAGTAGCCTGGTGTGTGGCATCAAACCTGGTGACCCACGCGTTCTGCAGAAAGTTAGATGACGATGGATTGC
CGTTTATAGGAGCAAACTGCAGTACGGAGATCCGTATTACAGCTACCTCAACCTCAACACCGGGGAAAGTTTTG
TGATGTACTATAAGAGTAAAGAAAATTGTGTTGTGGATAACATCAAAGTGTGCAGTAATGACACTGGGAGTGGAA
AATTCAAGTGTGTTTGCATCACTATGAGAGTGCCTCGGAACCCAACTATCGGAGATAAATTTGCCAGTCGCCATG
GGCAGAAGGGCATTTTAAGCAGATTGTGGCCGGCTGAGGACATGCCTTTTACTGAGAGTGGGATGGTCCAGACA
TTCTGTTCAATCCCCATGGTTTTCCATCCCGCATGACCATTGGGATGTTAATTGAGAGTATGGCCGGGAAGTCTG
CAGCTTTGCATGGTCTCTGCCATGATGCTACACCCTTCATCTTCTCAGAGGAGAAGTCTGGCCTTAGAATACTTTG
GTGAGATGTTAAAGGCTGCTGGCTACAATTTCTATGGCACCAGAGGTTATATAGTGGCATCAGTGGGCTAGAAC
TGGAAGCAGACATCTTCATAGGAGTGGTTTATTATCAGCGCTTACGCCATATGGTCTCAGACAAATTTCAAGTAA
GGCAACTGGAGCCCGAGACAGAGTCACCAACCAGCCTATTGGGGGAAGAAATGTCCAGGGTGGAAATCCGTTTTG
GGGAGATGGAACGGGATGCGCTTTTAGCTCATGGTACATCTTTCTCCTTCATGACCGCCTCTTCAACTGCTCAG
ATCGGTCGGTAGCCCATGTGTGTGAAGTGTGGCAGTTTACTCTCTCCACTGTTGGAGAAGCCACCCCTTCTTGG
TCTGCCATGCGCAACAGAAAATACAACCTGTACTCTGTGTAGTTCGCAGTGACACTATCGATACTGTTTCTGTGCCT
TATGTTTTTCGGTATTTTTGTAGCTGAACTGGCAGCTATGAACATCAAAGTGAACTGGATGTTGTTTAACTTGAT
GTTGACCTTTTGGATTAAGGGGACTATCAGATTAAAGCAAATGTAATTTTAATTCAATGAAGATATCATTACCA
GGTTACTCTTGAGATTTTTCAACGGTGTAGAAGTCTCAACCAAGACCTGAAAACCAAGTATGCAAGGTTTCTGA
ATCTCTCTGGTAGATTAACCTATTGACAAATGATTTTCTGTTATCTTTGTTCAAAAAGTTTCATGTCTTCTCAAAATA
TGAAATATTGATAAATGGAAGAGCATACGGTGACAAGTCTCCTTTCCAACCCAGGTTCCCTACACCTGCTCTC
AGCAGGCAGTGAGTGTACACACCTGTTAATCCATCTTGAGCAGGACAGTACTATACAAATAGAATGCAAGCTGT
AATGTAATTTTATATTTTCTTATAGCCACGTTGAAGTAAAAACAAACAGGTACAGTGTTTTTTACCAGCTTTATA
GAAGTACAGTTGTTACATATTTAATGAATACAATTTGATGGGTCTGACTATATGCACACACCTTTGATACCATCA
CCACAATCAGGGTAATAAACATACCTGTCTATCTCCACAAGTTTTCTCCTGCCCCCTTGTTTTTTGCTTTTTGGTT
GCTGTTGAGTTTTTGTGTTTGTCTTCTGTGGTAAGAACACTTAACTCAAGACCTACCTCTTAACAAATCTTTAAG
TGCACGATATAGTATTGTTAATTCAGGCACCATGTTGTACAACAGATCTTTAGACCTTACTTGTCTTGATAAC
TGAAGCTTTTATACCTGTTGAACAACCTCTCCATTTCCCTGGCCCCCTAGCAACCAACCTTCTACCTGTTTCTATGA
GTTTGAATATTACAGATATCTCATATAGTGGGATCATGCAATATTTGTCTGTGACTGGCTTATTTCACTTAGCA
TAGTGAAATAAGATTCATCCATTTTGAAGCCAGGCATGGTGTCTGTGCATCTATAGTCCCTGCTATTTGAGAGGC
TGAGGTGGGAGGATCATTTGAGTGCAGGAGTTCAAGGACAGCCTGGGTAATATAGGAAGACCCTGTCTTGAAGAC
CCTGACCTCAAGTGATCCACCCACCTCGGCCTCCGAAAGTGCTAGGATTACAGGTGTGAGCCACTGTGCCTGGCC
TCCGGTGAGTATTTTATATTTAGTCTACACTTCCATACTTGGCTTTTTTCTGCTTTTATGTTGATCTGCTTTTCAT
AGCAGTGTGTAGAGTGCCACTTATGTTTTCTTCTTGTGTACAGTATTTTATTGTATGGATTTACCATCCCCTGT
GTATTTAAGTTGTTCCATTCTTTGGCCATTATAACTTTTTTCTGCAAATATTCTGGTGACTTATCTTTGGCCATT
ATAAAGTGTGATAATAAAAAAAAAAAAAAAAAA

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FIGURE 1511

MNVAIFEDEVFAGVTTHQELFPHSLLSVIANFIPFSDLNQSPRNMYQCQMGKQTMGFLLTYQDRSDNKLYRLQT
PQSPLVRPSMYDYYDMDNYP IGTNAIVAVISYTG YDMEDAMIVNKASWERGFAHG SVYKSEFIDLSEKIKQGDSS
LVFGIKPGDPRVLQKLDDGLPFI GAKLQYGD PYYSYLNLTGESFVMYYKSKENC VVDNIKVCSNDTGS GKFKC
VCITMRVPRNPTIGDKFASRHGQKGILSRLWPAEDMPFTESGMVPDILFNPHGFPSRMTIGMLIESMAGKSAALH
GLCHDATPFI FSEENSALEYFGEMLKAAGYNFYGTERLYSGISGLELEADIFIGVVYYQRLRHMVSDK FQVRTTG
ARDRV TNQPIGGRNVQGGIRFGEMERDALLAHGTSFLLHDRLFNCSDRSVAHVCEVWQFTLSTVGEATPFLVCHA
QQKIQLYSV

[illegible]

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FIGURE 1513

MVFFTCNACGESVKKIQVEKHVSVCRNCECLSCIDCGKDFWGDDYKNHVKCI SEDQKYGGKGYEGKTHKGD IKQQ
AWIQKISELIKRPNVSPKVRELLEQISAFDNVPRKKAKFQNMKNLSLVHNE SILDQVWNIFSEASNSEPVNKEQ
DQRPLHPVANPHAEISTKVPASKVKDAVEQQGEVKKNKRRERKEERQKKRKREKKELKLENHQENSRNQPKKRKK
GQEADLEAGGEEVPEANGSAGKRSKKKKQRKDSASEEEARVGAGKRKRHSEVETDSKKKKMKLPEHPEGGE PED
DEAPAKGKFNWKGTIKAILKQAPDNEITIKLRKKVLAQYYTVTDEHHRSEEELLVIFNKKISKNPTFKLLKDKV
KLVK

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FIGURE 1514

TCTCGCTCAGGCTCGGTTTTACCCCGGAGTCTATTTCGAAGGGGGCTGCTACGTCAGCGCGTCTCAGCGTAAGACG
GCGCTATTCCGCTGTAACAGCTTCCGGCGGGTCTGGATGTTGATGTCCTGCATCTAACGCGGTGTAACCCCGA
AGCCGAGCGAGCTCCGGAGGAATTCAGTATCTGCTACGGTAACTTCATCAGCCGCCAAGATGCGGATGCAAGC
GGCCAAGAGGGCGAACATTTCGACTTCCACCTGAAGTAAATCGGATATTGTATATAAGAAATTTGCCATACAAAAT
CACAGCTGAAGAAATGTATGATATATTTGGGAAATATGGACCTATTCGTCAAATCAGAGTGGGGAACACACCTGA
AACTAGAGGAACAGCTTATGTGGTCTATGAGGACATCTTTGATGCCAAGAATGCATGTGATCACCTATCGGGATT
CAATGTTTGTAACAGATACCTTGTGGTTTTGTACTATAATGCCAACAGGGCATTTCAGAAGATGGACACAAAGAA
GAAGGAGGAACAGTTGAAGCTTCTCAAGGAGAAATATGGCATCAACACAGATCCACCAAAATAAATGTTTTCTAC
ATTTTCATTTGGACTAAATCCCACGAATGACAACCTACCTTTTTTTCCTTTTAAATTAATACTAAATATTGTG
ATTTCTTATTTGAGGTTCAAAATGACCTGCTTGAACTTTGATACATATTGGAATACATTATGTTAATAAACTTG
TAGCTTTTTGTGAAACAAAAAAAAAAGTCGACGCGGCCGCAATTTAGTAGTAGTAG

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FIGURE 1515

MAMQAAKRANIRLPPEVNRILYIRNLPYKITAEEMYDIFGKYGPIRQIRVGNTPETRGTAYVVYEDIFDAKNACD
HLSGFNVCNRYLVVLYYNANRAFQKMDTKKKEEQLKLLKEYGINTDPPK

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FIGURE 1516A

GGGTCGAGGTTCGACGGTATCGATAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTTCCCTCCCTCCCTC
TCCAAGCCGGAGGGGTCCTGAGGTGACAGCGCCTGCAACTGAAATTTTCAGCAGCGGGAGAAGATGACACAAGAGAA
AGCTCGGGCGACGGCCATCTTCATCCGAAATCATCACAGAAGGAAAAAGGAAAAAGTCATCTTCTGATTTATCGG
AGATAAGAAAGATGTTAAATGCAAAACCAGAGGATGTCCATGTTCAATCACCAGTGTCCAAATTCAGAAGCTCAG
AACGCTGGACTCTCCCTTTGCAGTGGGAAAGAAGCCTAAGGAATAAAGTCATCTCTCTAGACCATAAAAAATAAAA
AACATATCCGAGGGTGTCTGTACTTCCAGGTCATCACCAGAAAGGATACCCAGAGTTATATTGACGAATGTCC
TGGGAACGGAGTTAGGAAGAAAAATACATAAGGACCCACCTGTAAGTGAAGGAAAGTTTGTAGTGATACAGACAACT
TGCAATCAGAGCAACTTTCTTCATCATCTGATGGCAGCCTAGAATCTTATCAAAATCTAAACCTCACAAGAGCT
GTTATTTATCTGAAAGGGGCTCACAACGAAGTAAGACAGTAGATGACAATTCTGCAAGCAGACTGCGCACAATA
AAGAAAAACGAAGAAAGGATGATGGCATTCTCTTTTAATATCTGATACTCAGCCTGAAGACCTTAACAGTGGAA
GTAGAGGTTGTGATCATCTCGAACAGGAAAGCAGAAACAAGGATGTTAAATATTCTGATTCAAAAGTGGAACTCA
CTCTGATTTCCAGGAAGACAAAAGAGAAGGCTTAGAAATAATTTACCTGATTCTCAATATTGTACTTCTTTGGATA
AGTCAACAGAACAGACAAAAAAACAAGAGATGACTCAACAATATCCACTGAGTTTGAAAGGCCAAGTGAAAACT
ATCATCAGGATCCAAAAGTGCCTGAAGAAATTACAATAAACCTACAAAAGTGATTTTACTAAGCTATCCTCAC
TTAACAGTCAGGAGTTGACTTTGAGTAATGCCACCAAAAGTGCCTCTGCCGGTTCAACCACTGAAACCGTTGAGT
ACTCTAATTCCATTGATATTGTGGGGATTCTTCCCTGGTTGAGAAGGATGAGAATGAGTTGAATACCATAGAAA
AGCCTATTCTAAGAGGACATAATGAAGGGAACCAATCACTGATCTCAGCTGAACCAATTGTTGTTTCCAGTGATG
AAGAAGGACCTGTTGAACATAAAAGTTCAGAAATTCTTAAGTTACAATCTAAGCAAGACCGTGAGACAATAATG
AAAATGAGAGTACTTCTGAATCAGCATTGTTAGAATACCATTGATTACATGTGAATCTGTACAGATGTCATCTG
AATTATGCCCATATAATCCTGTTCATGGAGAACATTTCCAGTATTATGCCTAGTAATGAGATGGATCTACAACCTGG
ATTTTATATTTACTTCTGTTTATATTGGTAAAATAAAAGGAGCTTCTAAAGGTTGTGTTACAATCACAATAAAT
ATATTAAGATCCCATTTCAGTGTCCCTGAATGAGATTTTATTGCTAGTGGATACCACACATTTAAAGCGGTTTG
GGTTATGGAAAAGTAAGGATGATAATCACAGTAAAGGAGTCATGCTATTCTTTTCTTCTGGGTCTCTTCAGATT
ATCTTCAAGAGATTACAGACCAATTAGAACACTCTGTATTAAGCCAGCAATCAAAATCTAGTGAATTCATTTTCC
TTGAATACACAATCCTGTTTCACAGAGAGAAGAATTGAAGCTGAAAGATATTATGACGGAAATAAGTATAATCA
GTGGAGAATTAGAGCTTTCTTACCCGTTGTCTTGGGTTTCAGGCATTTCTTTGTTTCAGAACCTCTCTTCAAAAG
AAAGTTCTTTTATTCAATTATTACTGTGTTTCAACTTGTTCTTTCCCTGCTGGTGTTGCTGTGCTGAAGAAATGA
AGCTGAAATCAGTATCTCAGCCCTCAAACACAGATGCGGCCAAGCCTACTTACACCTTCTGCAGAAGCAAAGTA
GCGGTTGCTACTCCCTTTCTATTACATCTAATCCAGATGAAGAATGGCGGGAAGTCAGGCACACTGGACTTGTTT
AGAAGTTGATTGTATATCCTCCACCACCTACTAAGGGGGGATTGGGAGTAACTAATGAAGATCTGGAGTGTTTAG
AAGAAGGAGAGTTTCTTAATGATGTAATCATTGATTTTTACCTTAAGTATCTTATATTGGAGAAGGCATCAGATG
AACTTGTGTAACGAAGTCACATTTTTAGTAGCTTTTTCTATAAATGCTTGACAAGAAAGGAAAAATAATTTAACAG
AAGATAATCCAAATCTTTCAATGGCACAGAGAAGACATAAAAGAGTAAGAACATGGACTCGTCACATAAACATTT
TTAATAAAGATTACATCTTTGTACCTGTAAATGAGTCGTCCTCACTGGTATCTCGCAGTCATTTGTTTTCCATGGT
TAGAAGAAGCTGTGTATGAAGATTTTCCACAACTGTATCCCAGCAGTCCCAGGCTCAGCAGTCCCAGGAGTGACA
ACAAAACAATAGATAATGATCTACGTACTACTTCGACACTGTCTTTGAGTGCAGAGGATTCCCAAAGTACCGAGT
CGAATATGTCAGTACCAAAGAAAAATGTGTAAAAGGCCATGTATTCTTATACTAGACTCCTTGAAAGCTGCTTCTG
TACGAAACACAGTTTCAAAATTTACGAGAGTATTTAGAGGTAGAGTGGGAAGTTAAACTAAAAACTCATCGTCAAT
TCAGCAAAACAAACATGGTGGATCTATGCCCTAAAGTTCTTAAACAGGACAATAGCAGTGATTGTGGAGTATATT
TATTGCAGTATGTGGAAGCTTCTTCAAGGATCCTATTGTTAACTTTGAACCTCCAATTCATTTGGAGAAGTGGT
TTCTCGTCATGTAATAAAGACCAAACGGGAAGATATTGAGAGCTCATCTTGAAACTTCATTTACAGCAACAGA
AGGGCAGCAGTAGCTAGTTAATCTGTACAAACATGACACAGATGTTCTCTAAGATTACTGGAAAGCCCCCTACCA
GCATTTGTGTTAGCCAGCTCACAGAGAAGAAAAATAACTTGCAAGTATTTTATAATAAGTCATTGGAACATTATTT
AAAATATGTAGGACACATTATTAGAATTGTTGGGATCTCATAGATGGAATGGGAATGGGGGTGATATAGATAAAC
TTACTAGATATAAATTAATAATTTTATAAATTTTATATTTTCTGAGTAAATATGATTGGATTATGCAACAGCA
TATGTAATATGGGAATGTTTTGTAGATAATAAACTTACATGATCTGTACTTCCACGTGACTGGGTGCTGAGGGG
AGTTAAAGCCTCCCTGGTGCCAGCCCCAGTGCTTGTCAAATTTGCTGACAGGTCACATCATATTGTAATCTATT
CTTTCAGCTCAAGCATGCAGTATGAATACTGTGTATTTTTTAAAAAATAATTTAGTATCAAGGCTTCAGAAAA

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FIGURE 1516B

TGCCATTTACGGCATCCCTTCTGTATGTAACAAAAAGACATTTCATAATGTTAGGAAGATGATAAAAAATTCGCTCT
TTTAAAGTGCAGCTTATTATTCTCAATTGCTAAATACGATTACTCTGCTTTTTTTTTTTCATTTCTTTTGATGTC
ATATGTGAGTATCTTATAATTTAGTTCATTTGTTTCAGGGTAAAATTTGAAACAAAAATTTTACCTGTGCAAAAT
AGTTTTTTTAAAAATTATACATGTAGCTCAACTTGAGGTACTGCTATATAAATATTTCACTCACATTATCACGGAAT
TTATGTATAGTTTCTCTAATATAGAAGATAAAATTTGGTGTCCCTCATAACTTTAACAAAGAAAACCCCTCAGTCCTA
TTTATTAATGGGTAGAATTAAATATATAATTTTATAGCTCAGTTTACCCAGTATTCATCTGCAAAGCCAGATTGC
TCTCATTGCTTTTATATTTTTAAATTGTAGCTTTTAGAGACCTATGATCCTCATGGAACCTAATTTTTTTATTAAA
TATTCAGGTAACAGTTCTGAATTCATGTGATAATGGTGGCATTATATATGATTAAACACTTCAGAACTTTCTAAT
GTTATCAGGAGTATTTTGAGGGAGATATGATTATATTGTATTTTCTCAGATAAGAAAAATGTTTTTTAACAATAT
TATTTTAATCTGTTTTAAGCATCTCTTAGATTTACATTATAACTACATAAAGCAGTGAAGCAAAGGCAAATTAAG
ATAAAGCTAGAAAGTCTGAACATTTTATTTCAAAATCATACGAATCGGGGTCAGTTAAGCCTCAGTATTCTTAGC
TTTTGTTGATTTTGGCACTATCTTTATATTATTAAATATATTTGTTGTTTGGATATTTTCATATAAAGATGGCTAT
AATTACATATTTTCATTCCCAATTTGTGTGTGTTGGGGGGTACTTTTAAAGGTGACTATTGTTTTGTACATCTAAT
TTTGGGAAACCAAGTCTATAAGACATCTTGTGATTTCCTTAAIGTTTTTGTGTTGTATGTTTTTCAAAGATATCACT
GTCCTTTATCATGTTTTGAAGATTGTTTAAAATTCATTTTCCTAAATTAATGTGCAAGTAATGTTTTGAGGATAT
CGGTGTTTTATATTAAACATATTTCCAATTCAAAAAAAAAAAAAAAAAACTTATCGATACCGTCGACCTCGATG
ATGATGATGATGATGATGATGTCGAC

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FIGURE 1517

MDKRKLGRPPSSSEIIITEGKRKKSSSDLSEIRKMLNAKPEDVHVQSPLSKFRSSERWTLPLQWERSLRNKVISLD
HKNKKHIRGCPVTSRSSPERIPRVILTNLGTELGRKYIRTPPVTEGSLSDTDNLQSEQLSSSSDGSLESYQNLN
PHKSCYLSESGRSQSKTVDDNSAKQTAHNKEKRRKDDGISLLISDTQPEDLNSGSRGCDHLEQESRNKDVKYSDS
KVELTLISRKTKRRLRNLPDSQYCTSLDKSTEQTKQEDDSTISTEFERPSENYHQDPKLPEEITTKPTKSDF
ISLNSQELTSLNATKSASAGSTTETVEYSNSIDIVGISSLVEKDENEINTEKPILRGHNEGNQSLISAEPIV
DEEGPVEHKSSEILKLQSKQDRETTNENESTSESALLEPLITCESVQMSSELCPYNPVMENISSIMPSNEM
LDFIFTSVYIGKIKGASKGCVTITKKYIKIPFQVSLNEISLLVDTHLKRFGWLKSKDDNHSKRSHAILFFW
SSDYLQEIQTQLEHSVLSQQSKSSEFIFLELHNPVSQREELKLDIMTEISIIISGELELSYPLSWVQAFPLFQN
SKESSFIHYYCVSTCSFPAGVAVAEEMKLKSVSQPSNTDAKPTYTFLQKQSSGCYLSITSNPDEEWREVRH
LVQKLIVYPPPTKGGGLGVTNEDLECLEEGEFLNDVIIDFYLYLILEKASDELVERSHIFSSFFYKCLTRKE
EDNPNLSMAQRRHKRVRTWRHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQQSQAQQ
SDNKTIDNDLRTTSTLSLSAEDSQSTESNMSVPKKMCKRPCILILDSLKAASVRNTVQNLREYLEVEWEVKLK
RQFSKTNMVDLCPKVPKQDNSSDCGVYLLQYVESFFKDPIVNFELPIHLEKWFPRHVIKTKREDIRELILKLH
LQQQKGSSS

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FIGURE 1518

GCTCTGCACCCCTGCTGCTTCTGCTTTGAAGGCGGAGGCTCCATGTTGTCCCCTCAGCGAGTGGCAGCAGCTGCC
TCAAGAGGAGCAGATGATGCCATGGAGAGCAGCAAGCCTGGTCCAGTGCAGGTTGTTTTGGTTTCAGAAAGATCAA
CATTCCCTTTGAGCTAGATGAGAAAGCCTTGGCCAGCATCCTCTTGCAGGACCACATCCGAGATCTTGATGTGGTG
GTGGTTTCAGTGGCTGGTGCCTTCCGAAAGGGCAAGTCCTTCATTCTGGATTTTATGCTACGATACTTATATTCT
CAGAAGGAAAGTGGCCATTCAAATTGGTTGGGTGACCCAGAAGAACCCTTAACAGGATTTTCCTGGAGAGGGGA
TCTGATCCAGAAACCACTGGGATTCAAATCTGGAGTGAAGTTTTCACTGTGGAGAAGCCAGGTGGGAAGAAGGTT
GCAGTTGTTCTGATGGATAACCCAGGGGGCATTTCAGACCCAGTCAACTGTGAAAGACTGTGCTGCCATCTTTGCT
CTAAGCACTATGACTAGTTCTGTTTCAGATTTATAATTTATCTCAGAACATTCAAGAAGATGATCTTCAACAGCTG
CAGCTCTTCACAGAATACGGTCGTCTGGCAATGGATGAAATTTCCGAAAGCCTTTCCAGACACTGATGTTTTTG
GTTAGAGATAGGAGTTTCCCTTATGAATATAGCTATGGACTCCAAGGAGGAATGGCATTTTTGGATAAGCGTTTA
CAGGTGAAGGAACATCAACATGAAGAAATTCAGAATGTTCGAAATCACATTCATCATGTTTCTCCGATGTCACC
TGCTTTCTCTTACCACATCCAGGACTCCAGGTGGCCACAAGCCCTGACTTTGATGGGAAATTAAAGATATTGCT
GGTGAATTCAAAGAGCAGTTACAGGCACTGATACCGTATGTATTAAACCCATCTAAGTTAATGGAAGAGATC
AATGGCTCAAAGGTCACCTGTCGGGGACTACTGGAGTATTTAAGGCATATATTAATTTATCAAGGAGAAGAT
CTGCCTCACCCCAAGTCCATGCTTCAGGCCACTGCTGAAGCCTACAACCTTAGCAGCTGCAGCCTCTGCCAAGGAC
ATTTATTATAACAACATGGAAGAGGTTTGTGGGGGAGAGAAACCTTATTTGTCTCCAGACATTCTAGAGGAGAAG
CACTGCGAATTCAAACAACCTTGCTCTGGACCATTTAAGAAGACCAAGAAGATGGGTGGGAAGGATTTTCAGCTTT
CGTTACCAGCAGGAGCTGGAGGAGGAAATCAAGGAATTATATGAGAACTTCTGCAAGCACAAATGGTAGCAAGAAC
GTCTTCAGCACCTTCCGAACCCCTGCAGTGCTGTTACGGGCATTGTAGCTTTGTACATAGCCTCAGGCCTCACT
GGCTTCATAGGTCTTGAGGTTGTAGCCCAGTTGTTCAACTGTATGGTTGGACTACTGTTAATAGCACTCCTCACC
TGGGGCTACATCAGGTATTCTGGTCAATATCGTGAGCTGGGCGGAGCTATTGATTTTGGTGCCGCATATGTGTTG
GAGCAGGCTTCTTCTCATATCGGTAATTCCACTCAGGCCACTGTGAGGGATGCAGTTGTTGGAAGACCATCCATG
GATAAAAAAGCTCAATAGCATCTTAACGTGAAGATCAACAAGAACAACAAGCCCTACTGATTTCTGGGTTT
CTGCCACGGCCACAGGTTTCATATCCAGAGGAATGGCAGATCTGAGACGATCCAGGAAGAGCTAAAACATGGCCCT
GTAATAAATGAGCAGACCTCTATAAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1519

ALHPCCFCFEGGGSMLSPQRVAAAASRGADDAMESSKPGPVQVVLVQKDQHSFELDEKALASILLQDHIRDLVV
VVSVAGAFRKGSFILD FMLRYLYSQKESGHSNWLGDPEEPLTGFSWRGGSDPETTGIQIWSEVFTVEKPGGKKV
AVVLMDTQGAFDSQSTVKDCAAIFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFRKPFQTL MFL
VRDRSFPEYSYGLQGGMAFLDKRLQVKEHQHEEIQNVRNHIHSCFSDVTCFLLPHPGQLQVATSPDFDGKLDIA
GEFKEQLQALIPYVLNPSKLMEKEINGSKVTCRGLLEYFKAYIKIYQGEDLPHPKSMLQATAEAYNLAAAASAKD
IYYNNMEEVCGGEKP YLSPDILEEKHCEFKQLALDHFKKTKMGGKDFSFRYQQELEEIEKELYENFCKHNGSKN
VFSTFRTPAVLFTGIVALYIASGLTGFIGLEVVAQLFNCMVGLLLIALLTWGYIRYSGQYRELGG AIDFGAAYVL
EQASSHIGNSTQATVRDAVVGRPSMDKKAQ

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FIGURE 1520

GGCACGAGGGCCATGACGAGCCGGTCCGGAAGAAGAGGTAGGGCGCCGCGTGACAGATTAGTCCTAAAGGGAAC
GGGGTTGTTAGTTCAATTGGCTACCGGAAAAAACCAGGCTGGGCTGGGCGCCGCCATGACAACCGATACCGGAAA
AGGCGGGTCGTTCCCCCGGACAGCCCTACGCCGGCAAAGGTCTCGAGATGCAGGCGGCCCTAGAGGTCACCGCT
CGCTACTGTGGCCGGGAGCTGGAGCAGTATGGCCAGTGTGTGGCGGCCAAGCCGGAATCCTGGCAGCGGGACTGT
CACTACCTTAAGATGAGCATTGCCCAGTGCACATCCTCCCACCCAATCATCCGCCAGATCCGCCAGGCCTGTGCT
CAGCCTTTTGAGGCCTTCGAGGAGTGTCTTCGACAGAACGAGGCAGCTGTGGGCAACTGTGCAGAGCATATGCGC
CGCTTCCTGCAGTGCCTGAGCAGGTGCAGCCGCCACGCTCACCTGCAACTGTGGAGGCACAGCCACTTCCTGCC
TCCTTGAGGACTCCTCTGACGGCAGGAAAACTGGACATGAATGACTGCCCCCGCCCCCTCCCCTGCAGAGTGGCC
AGATGGAGTCCTGAGCCCTGGACATGGGCCCGGCTTTCCTGGATATCAGGACTTCCAATAAATAAAGACTCTGTA
TACTGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1521

MQAALEVTARYCGRELEQYGQCVAAKPESWQRDCHYLKMSIAQCTSSHPIIRQIRQACAQPFEAFEECLRQNEAA
VGNCAEHMRRFLQCAEQVQPPRSPATVEAQPLPAS

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FIGURE 1522

ATTGCTGGCCTAGGTGAACTGACGGTCTCCATTAGAAACATGGCTGCGACCAGTCTAGTGGGTATTTGTAGAAG
AGCCTCAGCGTTCCTGAAGGCAGCTTGTTCCCTAGTAAATCCCAAGGACGCTGCTCACTCGGGTTGCAGGTCTTC
TCTTAGTTTGTGGCTAAGAGTACACCAAATGTGACATCCTTACCAATATAGATTACTTCATACCACATTGTC
AAGGAAAGGACTAGAAGAATTTTTTGTATGACCCAAAAAAGTGGGGCAAGAAAAAGTAAATCTGGAGCAGCATG
GACCTGTCAGCACTAAGGAACAAAAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAAGAAA
CATGCTTCTAACCTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTAGATAAGGT
AGTAGATTCCATGGATGCATTAGATAAAAGTTGTCCAGGAAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCA
AGAAAGAGCTAGACCTGGTGCTTGGAGAAGAGACATCTTTGGAAGAATCATCTGGCACAAGTTCAAGCAGTGGGT
TATACCTTGGCACCTAAATAAAAGATACAATAGGAACGATTCTTTGCCTTGCCTTATGTGGACCATTTTCTCAG
ACTGGAACGTGAGAAACGAGCCCGCATCAAAGCACGGAAGGAAAATTTAGAGAGAAAAGAAAGCAAAAATTTCTTTT
AAAAAGTTTCCACATCTTGCTGAAGCCCAAAAGTCAAGTCTTGTCTAAGATGTCTGAACTATTAAATTTACCAT
TTTGTTTTTCTTGAATAGTCTGTGTACAGGAGTAAATATGTTAAGTGGTTTATAAAGAAATTCTGTTTTTAGTCA
AGTGACTTTACTAATCAGTTGTTCTAAGTGTGAATATGGCATGCTAATTAGCTAATTTGGTAGAAGCTAATTTGC
TTCTAAAAATCAGGTATAAAGTTCAGATGAGATTCCCACCTTTATAAATCTGACATTTAAGCAGGCTTTAAATGT
CACCTGCTACCTTAGAGTGTGAAGGTGATGGTAACTGCCACAGCAAAGGCAATACCGTAGTTTTTGAATTTGAAT
AATAGTTTTACCTCTGTTGTTAATAGGCTATGAAGAGGATGTGGGTATTGCTGTTAATAAACGGAGGACTTTGAT
TCAAAATAATGAGAAATACATTTAGTCCTTAAAGTAGTAATCACAGTGCACAACAGTCCAAAATATATTTCTGGA
ATGGCTAATTTTTATTTAATTTCTGTAAGCCTAAGGTAAAAAGCATAGGCAGTAACTTTTACTAGTCAATAAAAAG
CAGTTCTACCAATCCACTGGTAATTAATACACTAAACAGAGTTGGAAAGCATTTTACTGAAAGCAAAATATTTAG
AGAAAATAGACATTTATACAAAATTATAAAATGCTTGTAATAAGAATAAGTGCATTTCAAGGAAAGCACAACTT
AATTTATAGAGCCAGTTAAAGCTTTAAAAAATTTAAGTGGAATTTGAAATATGCAAAAATGTATAAACATTCTAC
AAAAGATGGTCATTCTTTTCTGAGTATACTAAAGCTATGAAACGTAAGGTGACAAAAGGAAGGTAGAAGCTTGG
GAACTCTTTCTCAAGGGCATTCTTTCTTCTACACACTGCTTCCCTCCTTCTTCATATTCTTGCTTGGAAATCCACA
TCCCAACACTTGTGGTGACAACATGACTGACTCCTAACATTGTGTTTCTTGATAACCCCTTCACATTGGAAGGGT
CAAATAATCCTTCTGGAATCTTTAGCCGCTCTGCACCAAAATCACAATTGTAGCCATTGGGGAATTCATAATGAA
CAGTTGGCATCTGTGCAGCCACTTGTTTCATCATAAGTTGAATCTGACACTTGAAGTACCGAAGCTTGAAAATCCT
GGATAACACAATTACACATATAATTGTGCCAAGACCTCGTAACCTGAGGCAACTTCTCTTTTCTTTCCAGTTTG
CTGGAGATCCTTCACGAACAGCTTCTTTTGATGCAATCATATATGGAGGAACCAATTCAATATTCATTTCTTGGA
AGAGTTCTCTGCACTGCATAGTAATAAAGTCTCCAGCAAGAGGGGATTTTACAATGCCTTGTTGAAGGACATAGC
CATCGTGGACTGGAATTGCAGTGGTATGAGTGGCTCCACTGTCCAAAATCAGCCCAGTAGAACGACCATTAGCAA
ATGCTGTCAAACTGCAGTTTGTCAAAGGAAGAAGGCAGGGATGTTGTAGTGTTCAAAACATTAACTCTGTCAGTT
TCTCTCTCTTTGCTCTAGTATTCCACGGTGCCTCTGACATGAGAACAGGATGGAGACTGGCTTCTGATTTGACAT
GCATTTTGTAGGTATGATCCAAAATAGCTTGGAACTATCCCAGTCTTCAACCATCCCATTTTTTAGAGGTGAAA
TGGCCTCCATATTCTCCCTCGGAACACGCAGAGCATTAGTATCTATGTAGTAGGTGGGACCGCCTTGTTTGCTT
TATCGCCATCTATTTCCATTAATGTGCTTCCGTCATCTCTTCTACCACCATAACCAATAGCTGTAGGAAAATCCA
CCTTGGGGCAGTCCCTCACCAGCATAACCAGCTCTCACAGTATAGGATCCAATGTCAAAAACAAGGGCTCCAATT
CATCTCCCCGTACCACGCCGCCGCTCATGGCTGCTGCCGGCGCGACTCCTACCCTAAGGGCTAACTGGCGAAGT
GACTGCAGTGGCCGCGACTGCGAGTCTCGAGGAGCGATAGCCCTGACTCCCTTAATTCCACCGCCACCCACCT
CAGGCAACAAAGCGG

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FIGURE 1523

MAATSLVGICRRASAFLLKAACSLVNPKDAAHSGCRSSL SLLPKSTPNVTSFHQYRLLHTTLSRKGLEEFFDDPKN
WGQEKVKSGAAWTCQQLRNKSNEDLHKLWYVLLKERNMLLTLEQEAKRQRLPMPSPERLDKVVDSMDALDKVVQE
REDALRLLQTGQERARPGAWRRDIFGRIIWHKFKQWVIPWHLNKRYNRKRFFALPYVDHFLRLEREKRARIKARK
ENLERKKAKILLKKFPHLAEAQKSSLV

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FIGURE 1524

CTTGGGGTGGGGACCGGGTGAGGGGCCTGACGGCAGAGTCGGTCCAGAAGTCCCCGGACAGCGACGCACAGCGAG
GAGCCAAAATGGAAGAGGGTGCAAGTCCCCCTCCTGGGGCCCCAGACGCCCCCTCCTTTCTTGCTGCCTGGAGCAG
GGGCAGTGCTGTTAGTGCTACTCCTGGTGTGAACAGCCCATCCTGGCCACCTTCCACAGGAAACCTGACCTGAA
GGACAGAAGAGGAAGGAAGCAGGCTTTGCCACAAATGTCAGTGCAGAAGTCTGGCTGGCCCCACCAAGAAGACAG
CCCCAAGCCCCAGGATCCAGGTCCACCAGCCAACCTCAGACAGTGAAGTCTAGGCCACCTGCCGGGGGAGGACCCTGA
GGATACCCATGCTCAGGAATTCCTGTCTCTGCACCTGCTTAGAACATGGGGTTTTGACTTTAAACTCATTACAT
GAGTATTATTATCTCTCCTAGGGGGTCTGTATTGTCAAACCAGACTCTAGGGGGCTTTGGCCCCAAGGCGTGAAG
GGGGTTAAGAAGGGAAAGCATAAGAAGGGAAGCTGTTTTGGGGTGTGGGGCCTCCCCAGCCTCCCTCAAGGAAGA
CCACACATGCAGGCATCAGTCAGCTATCCTTGCACCTCAGTGAGGATCTGCAAGGAGGACCCTCCCAATGGAGGG
CATGCTTAGAAGCTGCTCTAGATTGGAGAAGAGGTGGCAATGATGAGGGGGAAAGAAAGGAGAAAGGAAAGAAAA
CCTAGTTTCACTCCTCCCCCTTCTTCCATGCTCCTCAGGGTCTGTCAGTTCTGAGCTTGGGTTCCCTTTGCCTGG
ACACCAACCAAGCCCCCAACTGGACTGGACTTCAGACCCCTCCTGCAGCAACTCCCTCCGCAGGACATTGATGAGC
GCTACTGCCTGGCCCTTGGGGAGGAGGAGCGGGCCGAGCTGCAGCTCTTCTGTGCCAGGCGGAAGCAGGAAGCCC
TGGGACAGGGGGTAGCCCGCTGGTACTTCCCAAGCTTGAAGGACACACCTGTGAGAAGTGTAGGGAGTTGCTGA
AGCCAGGGGAGTACGGAGTGTTTGCAGCCCGGGCAGGGGAACAGCGCTGCTGGCACCAGCCTTGCTTTGCCTGCC
AGGCCTGTGGCCAGGCCCTGATAAACCTCATCTACTTCTACCATGATGGACAACCTCTACTGCGGCCGTATCATG
CAGAGTTGCTGCGCCCGCTGCCCGGCTTGTGACCAGCTGATCTTCTCCTGGCGCTGCACCGAGGCGGAGGGAC
AGCGCTGGCATGAGAACCCTTCTGTTGCCAGGACTGCGCCGGGCTCTGGGCGGGGGACGTTATGCCCTGCCTG
GGGGAAGCCCCCTGCTGCCCCAGCTGCTTCGAGAACCCTACTCGGATGCAGGCTCGAGCTGGGCGGGGGCACTGG
AAGGGCAGGCATTCTTGGAGCGCCCCCACCACCCCCAGACCCAAGCCTCGGGGCCCCGAGCTCTACCCGCG
CATCCCTGGCCGGAGCGTTCCAAGGGCCGCCGAACCCACCCCGCGCCGCGGTTCGGGGTTGCGGCGCCAGACTCC
CTCCCAGGCGCGGGAGGCGGACGCCCTCTGGTGGAGGCGGGGGACCCCTGGCGAGGACTCTCGGCGGCGGCGGCGG
CGCGCACGGCCCCAGGGGCTGGGCGGGGCGGGAGGCTGGGCCTCACCCCCACTAGCTGCGGTGTAGCTCCAGCTCC
GCGGCTCTGAGACCAGCGTTTCCGACCCGGCCCGGAACAGGGGAGACTGGACTCGACCGAAGTGAAGGAAGGGAC
CAAACCTCGGTGAAGTCTGCAACCTCTCCCGAACACTCCTTGCTGCTGCCGGCGGTTCCAGCTTGCAAACTCAG
AGGGGGCTGCCTGGATCCAGTCCCCAGCAGGAGAACCGACCTGGGGACAAAGCGGAGGCACCCAAAGGGCAGGAG
CAATGCCGCTTGAGACTATTCTGTATCCCAAGGACACCCCTTTCTCCACCTGCTCCTCCTCTGACTCGGAA
CCTGAAGGATTTTTCTTAGGCGAGCGCTTCCCCAGTCTGGAAGACCCCCGGAAGCCTCCAAGCAGAGGACAGC
AACGCTCTAAGACGCACTGCACCATGTGCTAGTGGCGAGCTCAGAGAGGGGATGTGAGTGGGAGGAAAGGGGT
CTGTAAAGCGGGAGAACAAGGCTAGCCTCCCCCTAACAATCTAGACTGAGACGCAGTCAGGCGCACGCCCGCAA
GAGGCGGCGAGGTGACAAGTTTGGAGTGCGCCCTTTCAGTACTGCGCGTTCTAAGACTTTTGGCGGAGACTTTC
TTGGCAAAACCCATTCCCCAAAGCTACGCTTCCCCTGCTGAGATAGCCCCCTACCCCCACCTCCACAGGCTGGGAC
AGCCCCGTCCCCACCATCCTCCTCCCAAGCCAATTAATGATCACAGCACGCGTGACAGTTACCGGCTGGAGAGC
CGGAGGTGGGACCGGGAGCAGGGGACCGTAGAACGGGCGCGCTCCTCCCCCTCCTAGAGTTCGTGGAGGCGCAG
CAGAGGGCCGTCCCTCTTCCGGATGTCGGACTAAGCGAACAGCGCCCCCACTGCCGGCCGGTAGCAGCCGGAAGT
GCCAGACCGGAGGTGCGTCATTACCGGCGACGCCGATACGGTTCTCCAGCGAGGCCCCATGCGAAGCTTTCCAC
TATGGCTTCCAGCACTGTCCCGGTGAGCGCTGCTGGCTCGGCTAATGAAACTCCCGAAATACCGGACAACTGGG
AGATTGGCTTCGGGGCGTCTACCGCTTTGCCACTGATAGGAATGACTTCCGGAGGAACTTGATACTAAATTTGGG
ACTCTTTGCTGCGGGAGTTTGGCTGGCCAGGAAGTTGAGTGACATTGACCTCATGGCACCTCAGCCAGGGGTGTA
GCCAAGTAGTTCTAATGCCACCTGTGCTTATCATCTGATTGCAGACAAATGGAATCCTGTGCTGAACCCGAAT
CTTCCAAAAACAGCCTACAATCTGTGACCACCACAAGATGTGCCCTGATGGCAGCTGAAGTTTGATTGAGATGG
GCACTTTTCTTCCCCCTTCCCTGCCTAGTTTCTTTTGTTCCTTGAGTCCACGCAGAAATTCATTCTCTGGTCAGC
AGACAGGCTTAAAGCTAAAGTATTGCCTCTATTCTGTAAAGTTCTGTACATAGTTCCCAAGCTTCTGCAGGGGGTG
ATTTTTGCTCTTGTCTGAGAAATAACAGTGCTGTTTTAAAAACATTTGAAATAAATACCGCACACAAAGGAAA
AAAAAAAAAAAAAAAAA

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FIGURE 1525

MSPQGPAVLSLGSCLDTNQAPNWTGLQTLQQLPPQDIDERYCLALGEEERAELQLFCARRKQEALGQGVARLV
LPKLEGHTCEKCRELLKPGEYGVFAARAGEQRCWHQPCFACQACQALINLIYFYHDGQLYCGRHHAE LLRPRCP
ACDQLIFSWRCTEAEGRWHENHFCCQDCAGPLGGGRYALPGGSPCCPSCFENRYSDAGSSWAGALEGQAF LGAP
PPHPPDPSLGARSSHRASLAGAFQGPPEPTPRRGRGCGARLP RRGRRTPSGGGGGPWRGLSAAAAARTAQGLGG
AGGWASPPLAAV

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FIGURE 1526

GGGCCGAGCCATGCAGGCGTCGCGCGTGGACTACATCGCTCCCTGGTGGGTGCTGTGGCTGCACAGCGTCCCGCA
CGTCGGCCTGCGCCTGCAGCCCCTGAACAGCACCTTCAGCCCCGGCGACGAGAGTTACCAGGAGTCGCTGCTGTT
CCTGGGGCTGGTGGCCGCCGTCTGCCTGGGCCTGAACCTCATCTTCCTTGTGGCTTACCTGGTCTGTGCATGCCA
CTGCCGGCGGGACGATGCGGTGCAGACCAAGCAGCACCCTCCTGCTGCATCACCTGGACGGCCGTGGTGGCCGG
GCTCATCTGCTGTGCTGCGGTGGGCGTTGGTTTCTATGAAACAGCGAGACCAACGATGGGGCGTACCAGCTGAT
GTACTCCTTGGACGATGCCAACCACACCTTCTCTGGGATCGATGCTCTGGTTTCCGGAACCTACCAGAAGATGAA
GGTGGACCTAGAGCAGCACCTGGCCCGGCTCAGTGAGATCTTTGCTGCCCGGGGCGATTACCTGCAGACCCTGAA
GTTTCATACAGCAGATGGCGGGCAGCATTGTTGTTTCAGCTCTCAGGACTGCCCGTGTGGAGGGAGGTCACCATGGA
GCTGACCAAGCTATCCGACCAGACTGGCTACGTGGAGTACTACAGGTGGCTCTCCTACCTCCTGCTCTTTATCCT
GGACCTGGTCATCTGCCTCATTGCCTGCCTGGGACTGGCCAAGCGCTCCAAGTGTCTCCTGGCCTCGATGCTGTG
CTGTGGGGCACTGAGCCTGCTCCTCAGTTGGGCATCCCTGGCCGCTGATGGCTCTGCGGCAGTGGCCACCAGTGA
CTTCTGTGTGGCTCCTGACACCTTCATCCTGAACGTCACGGAGGGCCAGATCAGCACAGAGGTGACTCGCTACTA
CCTGTATTGCAGCCAGAGTGGAAGCAGCCCCTTCCAGCAGACCCTGACCACCTTCCAGCGCGCACTTACCACCAT
GCAGATCCAGGTGCGGGGGCTGCTGCAGTTTGCCGTGCCCTCTTCTCCACTGCAGAGGAAGACCTGCTTGCAAT
CCAGCTCCTGCTGAACCTCCTCAGAGTCCAGCCTTACCAGCTGACCGCCATGGTGGACTGCCGAGGGGCTGCACAA
GGATTATCTGGACGCTCTTGCTGGCATCTGCTACGACGGCCTCCAGGGCTTGCTGTACCTTGGCCTCTTCTCCTT
CCTGGCCGCCCTCGCCTTCTCCACCATGATCTGTGCAGGGCCAAGGGCCTGGAAGCACTTACCACCAGAAACAG
AGACTACGATGACATTGATGATGATGACCCCTTTAACCCCAAGCCTGGCGCATGGCGGCTCACAGTCCCCCGAG
GGGACAGCTTACAGCTTCTGCAGCTACAGCAGTGGCCTGGGAAGTCAGACCAGCCTGCAGCCCCCGGCCAGAC
CATCTCCAACGCCCTGTCTCCGAGTACATGAACCAAGCCATGCTCTTTGGTAGGAACCCACGCTACGAGAACGT
GCCACTAATCGGGAGAGCCTCCCTCCGCCTACGTACTCTCCAGCATGAGAGCCACCTACCTGTCTGTGGCGGA
TGAGCACCTGAGGCCTACGGGAATCAGTTTCCAGCCTTAACAGACTTTCGGGGGTTCCTGCCTCCTTTTTCCGTT
CTGGTTTTTAATTAGTGCAAATACAAGCTGCGTTTCTTTAATAGAAACCAAGGCATCTGGAGCCCGAGAGGCCT
CCTGCTGGGCAGAGGAGCAGCTGGGATTCCCGACCAAGCCCCAGGGGGTGCAGAAGACTCACCACGCGGGCCAG
CCTCTCTCTTTTGCCCTGCTCTCCACACCAGAAATGCCCCAGGTGCTTGCTGCTCCTCAGAGGTACCATCCCTGA
GCTGGCTGCCTGGCCCTGCTACCCCTACGCCTCGCCCTTGCCAGGAGGGGAGTGGCAGTGAGGAGGGGGCCAGG
TCAGGCACCACCATCAAGAGAGCTGTGTGTTCTCTCTGGTCCCAACGATGACTCTGCCTCTTGTACGCCAGC
CAAGAGCCCAGACGACCCCTCTGTCTCGTTCCCTGTCTCGTTCCCTGCAGGTAACATGAGAAGGGCTGATCAG
GAGATGCTCTTTAAGAAGTTCGACCCCTGCTGACACCAGAACAAGCCAAATCAGAGTTCAGGGCCAGACAGGC
TCTTCTGGGCCACAGAGGGGAGGCATCAGGAAAGCTCTGCAGTGGGGGGCTGGTGGCTCCGGGGCTGGGGGATC
ACAGGCTGGTGAACCCCGGTGGGAACAGAGGTGAAAGCCTGCCACATTCCGCCTGTCTCCCTAACCTCCATTGC
CTCGCCTCTATTCCAGAATCAATGCTGCAGAATGTGTTAGCTGCAGATAGGCATGGTCTCAGGTATGAACAGACA
CTTTGAAACGACTTTAGGTCTTTCTTTTCTCCAGTGTTTTAAACATGTTGATTATCCAAAGAATTGAACTCCTA
GCACATCCAGTTTTTACAACAGATTTGCAGCTCATTCCTTACCCTGGTTAGGTCACTACTTTTGCAGATTTTGCT
GGCACTGATCTGGAGATCTGCAGATCTGGAGGAGACGGGAAGGAGTCGATTCTTAAATAAGGATCAGTGAGGCAT
CCTGTCCCAAGCTACTGTTTGGTGGGGATCTGGGTTTCATCTACCCACAGAGGGAGGATCTTTAAGAGGAGAAAA
AAGCCAAGAGGGAAAGCCAGAGTTCCTGTTCTAGGGGACTAGCCAAATGCCTACATCAGCTGTCCCCTCCCTGT
TGTCTCCAAGTAAGTTTGCCAGAAAAGGTTTTAGCAAAGTGCTACAACCTGTGTCTTTATAGGAGGATAGGCCTCT
GCCCTGCCCCACCCCCACCACCTGTCCCCACCCAGTGTCCAGGCCACAGGAGCTTATTGGCCAGGAGGGAATAA
TGTCCCCCAATACTGCCTGTTGAGGGACAGAGTTGGGGTCTTTGGTGCTTCCAACCTCCTGCCAACCTGGAGTT
CACAACACCAGAGCCCCACGGCCTCGCACACTGAAGCAGGGGCGTGCGGTGACTCGGTGCTTCTGTTTTGGAAGA
ACCACCTGTATCAAAACATGGACAGCAGGGTGTCTCAGCTCCAGCGAAGCCTCCACAACAGAATGGGGCCAC
AGGGCAGCCGGGACTCCCTGTCTCACCTACATTAACCCATGCATACTGTATGCCATAAACTCACTTTGGTATATC
CGCGTCACATGCAGAGAGGAACCTTGCGACGTCAAAGTGTTGCTTCTTAAAGTTTCATTATTGGCAACTAGAGGG
TTGTTTTTAATGCATGGAAACTAAACAGATTCTCGGGGAGTTCTTGAAGGAACCAGGTGGGCAACCTTTGCTT
ATATACATGCGGCCTCACCTGGAAGAGAAATAAACCACTTGACT

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FIGURE 1527

MQASRVDYIAPWWVWLHSPHVGLRLQPVNSTFSPGDESYQESLLFLGLVAAVCLGLNLIFLVAYLVCACHCRR
DDAVQTKQHHSCCITWTAVVAGLICCAAVGVGFYGNSETNDGAYQLMYSLDDANHTFSGIDALVSGTTQKMKVDL
EQHLARLSEIFAARGDYLQTLKFIQQMAGSIVVQLSGLPVWREVTMELTKLSDQTGYVEYYRWLSYLLLFILDLV
ICLIACLGLAKRSKLLASMLCCGALSLLLSWASLAADGSAAVATSDFCVAPDTFILNVTEGQISTEVTRYLYC
SQSGSSPFQQTLTTTQRALTTMQIQVAGLLQFAVPLFSTAEDLLAIQLLNSSESSLHQLTAMVDCRGLHKDYL
DALAGICYDGLQGLLYLGLFSFLAALAFSTMICAGPRAWKHFTTRNRDYDDIDDDPFNPQAWRMAAHSPPRGQL
HSFCSYSSGLGSQTSLOPPAQTISNAPVSEYMNQAMLFGRNPRYENVPLIGRASPPPTYSPSMRATYLSVADEHL
RHYGNQFPA

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FIGURE 1528

ATGGATGAAGAACCTGAAAGAACTAAGCGATGGGAAGGAGGCTATGAAAGAACATGGGAGATTCTTAAAGAAGAT
GAATCTGGATCACTTAAAGCTACAATAGAAGACATTCTATTCAAGGCAAAGAGAAAAAGAGTATTTGAGCACCAT
GGACAAGTTCGACTTGGAATGATGCGCCACCTTTATGTGGTAGTAGATGGATCAAGAACAATGGAAGACCAAGAT
TTAAAGCCTAATAGACTGACGTGTACTTTAAAGTTGTTGGAATACTTTGTAGAGGAATATTTTGATCAAAATCCT
ATTAGTCAGATTGGAATAATTGTAAGTAAGAGTAAAAGAGCTGAAAAATTGACTGAACTTTCAGGAAACCCAAGA
AAACATATAACGTCTTTGAAGAAAGCTGTGGATATGACCTGCCATGGAGAGCCATCTCTTTATAATTCCCTAAGC
ATAGCTATGCAGACTCTAAAACACATGCCTGGACATACAAGTCGAGAAGTACTAATCATCTTTAGCAGCCTTACA
ACTTGCGATCCATCTAATATTTATGATCTAATCAAGACCCTAAAGGCAGCTAAAATTAGAGTATCTGTTATTGGA
TTGTCTGCAGAAGTTCGCGTTTGCACTGTACTTGCTCGTGAACTGGTGGCACGTACCATGTTATTTTAGATGAA
AGCCATTACAAAGAGTTGCTCACACATCATGTTAGTCCTCCTCCTGCTAGCTCAAGTTCTGAATGCTCACTTATT
CGTATGGGATTTCCCTCAGCACACCATTGCTTCTTTATCTGACCAGGATGCAAAACCCCTCTTTCAGCATGGCGCAT
TTGGATGGCAATACTGAGCCAGGGCTTACATTAGGAGGCTATTTCTGCCACAGTGTGGGGCAAAGTACTGTGAG
CTACCTGTTGAATGTAAATCTGTGGTCTTACTTTGGTGTCTGCTCCCCACTTGGCACGGTCTTACCATCATTTG
TTTCCTTTGGATGCTTTTCAAGAAATTCCCCTAGAAGAATATAATGGAGAAAGATTTTGTATGGATGTCAGGGG
GAATTGAAAGACCAACATGTTTATGTTTGTGCTGTGTGCCAAATGTTTTCTGTGTGGACTGTGATGTTTTTGT
CATGATTCTCTACACTGTTGCCCTGGCTGTATTCATAAGATTCCAGCTCCTTCAGGTGTTTGA

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FIGURE 1529

MDEEPERTKRWEGGYERTWEILKEDESGSLKATIEDILFKAKRKRVFEHHGQVRLGMMRHLYVVVDGSRTMEDQD
LKP NRLTCTLK LLEYFVEEYFDQNPISQIGIIVTKSKRAEKLTELSGNPRKHITSLKKAVDMTCHGEP SLYNSLS
IAMQTLKHMPGHTSREVLIIIFSSLTTCDPSNIYDLIKTLKAAKIRVSVIGLSAEVRVCTVLARETG GTYHVILDE
SHYKELLTHHVSPPPASSSSECSLIRMGFPQHTIASLSDQDAKPSFSMAHLDGNTEPGLTLGGYFCPQCRAKYCE
TECKICGLTLVSAPHLARSYHHLFPLDAFQEIPLEEYNGERFCYGCQGELKDQHVVVCAVCQNVFCVDCDV FV
LHCCPGCIHKIPAPSGV

1681/2682
FIGURE 1530

GGCCGTGCCTTCTCTCGCTTCGGACTGCGCAACGCTGCGCTCTGGGCTGACAGGCGGATAAAACGGTCCCATCAA
GACTGAGAAAAAGCACACCAGCTATTGGCACAGCGTGGGCAGTGGGGCCTACAGGATGACTGACTTAGTCTACAG
AGATCCCGGCGTACTTAAGCAGATGAAGACTCTTAAGATGACAGAAGGTGATTTTTCTGGTGATCGAGGACTTCC
GGGGTAATGACAGTGATGAAATGCAGGGGACCTGGTTGCCCCAAGTTTCCTGGCAGTGTTGATACTGAGGAGG
TGAGCTTGTTTCTGGAGCTGTGCTTTAAGATTTCATGTTACATGTAAAGCTGTCCTCATTGTGACTATGGACCTA
TGGAGTTGGGACAATCTCTATGGGAAGCAGAAGGCAAGGACCCCGGTCATTTTAGGTAGAAACAACAGCATGCTA
ATGCAAAAAATTATGCAGTGTGCTACTGAACCTCAGAGGTGATCAATAAAGAAGAATAAAAAGACTAATAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1682/2682
FIGURE 1531

MQGTWLPPSFLAVCDTEEVSLFLELCFKIHVTCKAVLICDYGPME LGQSLWEAEGKDPGHFR

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FIGURE 1532

CCCTTTAAAGGGTGACTCGTCCCACTTGTGTTCTCTCTCCTGGTGCAGAGTTGCAAGCAAGTTTATCAGAGTATC
GCCATGAAGTTTCGTCCCCCTGCCTCCTGCTGGTGACCTTGTCTGCCTGGGGACTTTGGGTCAGGCCCCGAGGCAA
AAGCAAGGAAGCACTGGGGAGGAATTCCATTTCCAGACTGGAGGGAGAGATTCTGCACTATGCGTCCCAGCAGC
TTGGGGCAAGGTGCTGGAGAAGTCTGGCTTCGCGTCGACTGCCGCAACACAGACCAGACCTACTGGTGTGAGTAC
AGGGGGCAGCCCAGCATGTGCCAGGCTTTTGCTGCTGACCCCAAACCTTACTGGAATCAAGCCCTGCAGGAGCTG
AGGCGCCTTCACCATGCGTGCCAGGGGGCCCCGGTGCTTAGGCCATCCGTGTGCAGGGAGGCTGGACCCCAGGCC
CATATGCAGCAGGTGACTTCCAGCCTCAAGGGCAGCCCAGAGCCCCAACCAGCAGCCTGAGGCTGGGACGCCATCT
CTGAGGCCCCAAGGCCACAGTGAACCTCACAGAAGCAACACAGCTGGGAAAGGACTCGATGGAAGAGCTGGGAAAA
GCCAAACCCACCCGACCCACAGCCAAACCTACCCAGCCTGGACCCAGGCCCGAGGGAATGAGGAAGCAAAG
AAGAAGGCCTGGGAACATTGTTGGAAACCCTTCCAGGCCCTGTGCGCCTTTCTCATCAGCTTCTTCCGAGGGTGA

CAGGTGAAAGACCCCTACAGATCTGACCTCTCCCTGACAGACAACCATCTCTTTTTATATTATGCCGCTTTCAAT
CCAACGTTCTCACACTGGAAGAAGAGAGTTTCTAATCAGATGCAACGGCCCAAATTCTTGATCTGCAGCTTCTCT
GAAGTTTGGAAAAGAAACCTTCCCTTTCTGGAGTTTGCAGAGTTCAGCAATATGATAGGGAACAGGTGCTGATGGG
CCCAAGAGTGACAAGCATAACAACCTACTTATTATCTGTAGAAGTTTGTCTTTGTTGATCTGAGCCTTCTATGAA
AGTTTAAATATGTAACGCATTTCATGAATTTCCAGTGTTTCAGTAAATAGCAGCTATGTGTGTGCAAAATAAAAGAA
TGATTTCAGAAAT

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FIGURE 1533

MKFVPCLLLVTLSCLGTLGQAPRQKQGSTGEEFHFQTGGRDSCMRPSSLGQGAGEVWLRVDCRNTDQTYWCEYR
GQPSMCQAFADPKPYWNQALQELRRLHHACQGAPVLRPSVCREAGPQAHMQQVTSSLKGSPEPNQQPEAGTPSL
RPKATVKLTEATQLGKDSMEELGKAKPTTRPTAKPTQPGPRPGGNEEAKKKAWHCWKPFQALCAFLISFFRG

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FIGURE 1534

ATGGCACAGCACGGGGCGATGGGCGGTTTCGGGGCCCTGTGCGGCCTGGCGCTGCTGTGCGCGCTCAGCCTGGGT
CAGCGCCCCACCGGGGGTCCCGGGTGCGGCCCTGGGCGCCTCCTGCTTGGGACGGGAACGGACGCGCGCTGCTGC
CGGGTTCACACGACGCGCTGCTGCCGCGATTACCCGGGCGAGGAGTGCTGTTCCGAGTGGGACTGCATGTGTGTC
CAGCCTGAATTCCACTGCGGAGACCCTTGCTGCACGACCTGCCGGCACCACCCTTGTCCTCCAGGCCAGGGGGTA
CAGTCCCAGGGGAAATTCAGTTTTGGCTTCCAGTGTATCGACTGTGCCTCGGGGACCTTCTCCGGGGGCCACGAA
GGCCACTGCAAACCTTGGACAGACTGCACCCAGTTCGGGTTTCTCACTGTGTTCCCTGGGAACAAGACCCACAAC
GCTGTGTGCGTCCCAGGGTCCCCGCCGGCAGAGCCGCTTGGGTGGCTGACCGTCGTCTCCTGGCCGTGGCCGCC
TGCGTCTCCTCCTGACCTCGGCCAGCTTGGACTGCACATCTGGCAGCTGAGGAGTCAGTGCATGTGGCCCCGA
GAGACCCAGCTGCTGCTGGAGGTGCCGCCGTCGACCGAAGACGCCAGAAGCTGCCAGTCCCCGAGGAAGAGCGG
GGCGAGCGATCGGCAGAGGAGAAGGGGCGGCTGGGAGACCTGTGGGTGTGA

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FIGURE 1535

MAQHGMGAFRALCGLALLCALSLGQRPTGGPGCGPGRLLLGTGTDARCCRVHTTRCCRDYPGEECCSEWDCMCV
QPEFHCGDPCCTTCRHHPCPPGQGVQSQGKFSFGFQCIDCASGTFSGGHEGHCKPWTDCIQFGFLTVPGNKTHN
AVCVPGSPPAEPLGWLTVVLLAVAACVLLLTSAQLGLHIWQLRSQCMWPRETQLLLEVFPSTEDARSCQFPEER
GERSAEEKGRLGDLWV

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FIGURE 1536

GGCACGAGGGACCTGAAGCTGGGGAACATGGTGCTCAACAAGAGGACACATCGGATAACCATCACCAACTTCTGC
CTCGGGAAGCATCTGGTGAGCGAGGGGGACCTGCTGAAGGACCAGAGAGGGAGCCCTGCCTACATCAGTCCCGAC
GTGCTCAGCGGCCGGCCGTACCGTGGCAAGCCAGTGACATGTGGGCCCTGGGCGTGGTGCTCTTCACCATGCTG
TATGGCCAGTTCCCCTTCTACGACAGCATCCCGCAGGAGCTCTTCCGCAAGATCAAGGCTGCCGAGTATAACCAT
CCTGAGGATGGACGGGTTTCTGAGAACACCGTGTGTCTCATCCGGAAGCTGCTGGTCTTGACCCCCAGCAGCGC
CTGGCCGCCGCCGACGTCCTGGAGGCCCTCAGTGCCATCATTGCATCATGGCAGTCCCTGTCTCTGAGTGGG
CCTTTGCAAGTGTTTCTGACATTGATGACCAATGAGCAATGCGGATAGCTCCCAGCAGGCGAAGGTGACGGAG
GAGTGCTCCCAGTACGAGTTTGAGAACTACATGCGTCAGCAGCTGCTGCTGGCCGAGGAGAAGAGCTCCATCCAT
GACGCCCCGAGCTGGGTACCCAAAGCGGCAGTTCGGCAGCGCACACCAGGCTGCGACGGCTGGGCCACGACGCACAG
CCCATGACCTCCTTGACACGGCCATCCTGGCGCAGCGCTACCTGCGGAAATAACAGCCTCAGCCGGGGCCACCA
GCACTGCTGCCACTTCTTCCAGCCCCAGCCAAAGGCGTGGCTGTGAGGGCTGGGCCCTGTAGTGCTGGACTCTCC
CGGGCCACAATAGGGACAGGGCAGGGACAGGGACAGGCCAGGTACACGTGGGGTCAGCAGAGGTACCACGAAGC
TACCTTTTGGGATGATTGCTCGATTGTTTGGTTTTTAAATCTGAGAAGCCTAGATAACTAATCTGCTTTTAATCA
CGATGTTTTAATCTACCTCTGTCTCTTTAACCATGCTGTCTCTGGACTGAGCAAGAGGGAGGAGGGAGCCTGCTC
ACCCCACTCCAGGGCCTTCCCCAGCGGCCACCAACTGACCTGGGGCGCTGCTCCCCACAGTCCAAATAAGCTGAA
AGTGCACTCGCTGCAGGCCCCAGAGCGAGCTTCCCTCCTCCCTGCTCTCCCAGGCCCTGCCACAGCCTCTTT
CCGTCCCTCTCTTCTGATCCAGGCCCTCAGTCCAAGCTTTGGAAAACCTTCACCTCATCTTAAACCGAACTCA
AATATATTTATTTTTTACCATAACCACTTCTCTCCCATCTCTAGGTGGCTCAGTCCATGGCCACTCCCTGCCCC
CAGCCTGGCTGGACAGCAAGGAATCCACAGCCCACAGTGAGCTCCCTCCTCACCCCCAGGCAGGGAAGCCCCCTC
CTGCCAGTCCCTGTCCCTTTCAGCCCACCAGTCCCTCTCTGCTGCCGGTGATGGGAGGCCTTTCTAGACCTGGC
TCTTTCTCTCCCGTCTCAGTGGCTTCTCTGAGGTGCTGTACACGCGCGTTAACCTGTTCCTTCTCTATCCTTCC
CCGTGGTACTGAGCTCACGTGGACTCCAGTGCGAAGGGGCCCATGGGTGGGCTGCAGGCCTGGCCGTGAGCGG
GGGCTGCCTGCACGCTCCCTAGCCTACTCTTGTGTTTAGGGGATGGTGGGAACATATCCCACTGAGTCCCTTGCCTC
ATAATAGATGTGGTGACTCTCCCGGTAGACCCTAGCAAGGCTCCTCCATGGTGGTGAGGACTCAGGAGAATTGT
AGGGATTGGGGGACCCCTGCCTGCCTGGCTTGAGAACAGCCCTGCTGCCCTTTTGAGCCGAGATTTTGAAGTGGAT
GCCCCGTCTTGCCAGAAATGCTGTTCTCACCAGAAATGCCCCCTCCCTTGCCCTTACTGGACTTGGCCCTGCCTGA
TGCCAAGCAAAGACCCCTTCCCCAGAGGCCTACCCCCCATATGTCTCAGAGAGGCTGAGTGTCCCTCCAGGCAG
TCATGGGCCCTGAGGCCCTCCTGCCTGGCCCTGCTCCCCAGTGGGGAGGTGACTGTGTTTCCAGAGTGTGAGC
CGCTCTCCTCCCCCTAAAAAGCTGACTCACTGTGAGTGACCTTGGGCAAGTTCCCAAACCTCCTTGTGCCTCAGT
TTCCCCATCTGGAAAAAATGGGGCCACCTCTTGCCAGCAGTAGCAGGGCTGCCACGCCCCCTTCTCCCCATGCC
CCATCCAGCACTTGGGCGACTCATGCCTCTGCCTCAGTGGGCCTGTGGGAGCCTACTGGAGCCCAGCACTTACTC
CCCCTGAGCAGCGAGCCTGCGTCTGTCTCAGCTGTCCAGCGCTGAGGGCCAGGGTCTTGTGCTGTGGGGCTGGGG
GATGCCCTCTTTTCTATATTTATTTTATAGAAAGTCTCCTGCGGGAGCGGAAATGCAGTCCGGCCTAGGGCTCCC
AGCCCTTGACTGTCTCCTGTGAGGGCCTGAAGCTGGGCCAGGGCCCCGTGCGAGCGGAGCCCCCTCTCAGCAGCC
CACCGGGTCCCTCCAGGCTGCTGCCCCGTGCGTGGTCTTTCTCCTCCTTTTCAAAGCAATAGCCGCCGGGTCTGCA
AAGCCCTGTGACAGAGACTGGGCCCTTCCAAGGTCAAGCCATGTGTCTGATGACATTCTGGTGAAGCAAAGGAG
AGGAGGATGGGTGAGCCCTCACTGGGTGTACACACTGAGAGAAGTCTATTGTAAAGAAACGGAAAAAGTCACA
AAAAAGTTTGTATAAAGACATATTTTGTACTACATGGGGACTCTTCTGCTGTCAGCAATAAACTTCTGAT
CTGGAAAAA

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FIGURE 1537

MVLNKRTHRITITNFC LGKHLVSEGDLLKDQRGSPAYISPDVLSGRPYRGKPSDMWALGVVLF TMLYGQFFFYDS
IPQELFRKIKAAEYTI PEDGRVSENTVCLIRKLLVLDPQQRLAAADVLEALSAIIASWQSLSSL SGPLQVVPDID
DQMSNADSSQQAKVTEEC SQYEFENYMRQQLLLAEKSSIHDARSWVPKRQFGSAPPVRR LGHDAQPMTSLDTAI
LAQRYLRK

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FIGURE 1538

TCCTTTGGTGCCTTGTGACCAGGGCCCTGATGGTTCATTAGATGGAGCCTTCGAGTCTTAGGGAGTTGCCGCAGG
GTCCCCACAGCGGCTCCCGACGGTTGTGAACCAGCATCCATCCTCCACGGATTCCGGCAACCCGCTGGCCCTGG
ACGTGTCTCAACTGGCCCGCTGAGGGGCGCCCCGGAATGACGCGCTGCCCCGCTGGCCAAGCGGAAGTGGAG
ATGGCGGAGCTGTACGTGAAGCCGGGCAACAAGGAACGCGGCTGGAACGACCCGCCGCAGTTCTCATAACGGGCTG
CAGACCCAGGCCGGCGGACCCAGGCGCTCGCTGCTTACCAAGAGGGTAGCCGCACCCCAGGATGGATCCCCCAGA
GTCCCCGCATCAGAGACTTCTCCTGGGCCTCCCCCAATGGGGCCTCCACCTCCTTCAAGTAAGGCTCCCAGGTCC
CCACCTGTGGGGAGTGGTCCTGCCTCTGGCGTGGAGCCCACAAGTTTCCCAGTCGAGTCTGAGGCTCGACTGATG
GAGGATGTGCTGAGACCTTTGGAACAGGCATTGGAAGACTGCCGTGGCCACACAAGGAAGCAGGTATGTGATGAC
ATCAGCCGACGCCTGGCACTGCTGCAGGAACAGTGGGCTGGAGGAAAGTTGTCAATACCTGTAAAGAAGAGAATG
GCTCTACTGGTGCAAGAGCTTTCAAGCCACCGGTGGGACGCAGCAGATGACATCCACCGCTCCCTCATGGTTGAC
CATGTGACTGAGGTCAGTCAGTGGATGGTAGGAGTTAAAAAGATTAATTGCAGAAAAGAGGAGTCTGTTTTTCAGAG
GAGGCAGCCAATGAAGAGAAATCTGCAGCCACAGCTGAGAAGAACCATAACCATACCAGGCTTCCAGCAGGCTTCA
TAATCCCTCGGTTCCCCAGACT

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FIGURE 1539

MTRCPAGQAEVEMAELYVKPGNKERGWNPPQFSYGLQTQAGGPRRSLLTKRVAAPQDGSPRVPASETSPGPPPM
GPPPPSSKAPRSPPVGSGPASGVEPTSFPVESEARLMEDVLRPLEQALEDCRGHTRKQVCDDISRRLLALLQEQWA
GGKLSIPVKKRMALLVQELSSHRWDAADDIHRSLMVDHVTEVSQWMVGVKRLIAEKRSLFSEEAANEEKSAATAE
KNHTIPGFQQAS

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FIGURE 1540

[illegible]

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FIGURE 1541

MVKYFLGQSVLRSSWDQVFAAFWQRYPNPYSKHVLTEDIVHREVTPDQKLLSRLLTKTNRMPRWAERLFPANVA
HSVYVLEDSIVDPQNQTMTTFTWNINHARLMVVEERCVCVNSDNSGWTEIRREAWVSSSLFGVSRAVQEFGLAR
FKSNVTKTMKGFYILAKLQGEAPSKTLVETAKEAKEKAKETALAATEKAKDLASKAATKKQQQQQQFV

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FIGURE 1542

GGTCGGGACCGGCAAGATGGCGGCGCGGACAGCGTTCCGGTGTGTGTGCCGGCGCCTCTGGCAGGGATTGGGGAA
TTTTTCTGTAAACACTTCTAAGGGCAATACAGCCAAAAATGGTGGCTTGCTTCTCAGTACCAATATGAAGTGGGT
ACAGTTTTCAAACCTACACGTTGATGTTCCAAAGGATTTGACCAAACCTGTGGTAACAATCTCTGATGAACCAGA
CATATTATATAAGCGCCTCTCGGTTTTGGTGAAAGGTCACGATAAGGCTGTATTGGACAGTTATGAATATTTTGC
TGTGCTTGCTGCTAAAGAACTTGGTATCTCTATTAAAGTACATGAACCTCCAAGGAAAATAGAGCGATTACTCT
TCTCCAATCAGTGCATATTTACAAGAAGCACAGAGTTTCAATGAAATGAGAACACTTTACAGATGTTTAGAGTT
AGAACATCTAACTGGAAGCACAGCAGATGTCTACTTGGAAATATATTACGCGAACTTACCTGAAGGGGTGCCAT
GGAAGTAACAAAGACACAATTAGAACAGTTACCAGAACACATCAAGGAGCCAATCTGGGAAACACTATCAGAAGA
AAAAGAAGAAAGCAAGTCATAAAGCCTCAGGGAGGCCATTTTTGCCTAAATTTGAAATGAGGGTGGGCCAGATGA
GTATGTTTTAAGTGGAGAGTGCTTCCAGCTGAGATGATTTGAGTCTGTCTAACTGCTCCATTGAGTTCTCGTGCC
CTCATCAGCTGAGGGCAGGGGAATGGAACCTTAAATGGAAGAACCCTTTTATCTATTCTTTTATTTCATTGTTTCA
GTTCTGATTTTCAGCAAACATGAGCAAACCCTTTGACTGAAAGCAGAAAGAGTGAAAATTCTATTTTGTACGCT
ACTGGTGTTCATTATTAGTTTGTACCATTTTTAATTTATGTCAAGTTGATGCATCTGAAAATAAGTGCTTGGAGT
GTTTCGTACCCCTATTTTTTTTTTAAGATTCTAGAAAGGAATCTTTGGTTAATTCAGATTGAGCAGTTAAAGTTTTT
GCTATTTACCTTTGTGCAGGGCTGGCATATGCTAATTTGGGGGTGGTAACCAACCGATTTTATCTCATGTAAGCAT
TACATTTTGAAGACTGAATATACTTACAGCAGATCAAACACATTTATGGCATGCACTGACCTCTTCTTGGAGCC
CAGAACTTTATAGAGTTGCCTACCAGGGTTACTGTAATGGAATTTATGATCTTAAGAAATTACTAGTTGTATTAT
TTATCCTATGATTCATTCAATAAGCTTTTACTGCATAAACTTTACATCCAGCACTGTAGTTAAGTACCCAA
AATTGAATAGAAATAATGGCTTTTGAATAATGCACAAAGCAGGCCAGGCACGGTGGCTCACGCCTGTAATCCAG
CACTTTGGGAGGCCGAGGCAGGCGGATCACGAGGTCAAGAGATCCAGACCATCCTGGCTAACACGGTGAAACCCC
GTCTCTAATAAAAAATACAAAATTAGCTGGACATGGTGGCACGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAG
GCAGGAGAATCGCGTGAACCCGGGCCCGGTGGAGGCTGCAGTGAGACGAGATCGCGCCACTGCACTCCAGCCTGG
CGACAGAGCGAGACACCGTCTCAAAAAAAAAAAAAAGAAAATTGTGCAAAGCATAGGTAAATATTTTTCTTTAT
TAAGCTTCTCACTGAGAAGCCCTCTTTATTTTGGTAAATGTCACTCTGTTTGTAGGAGATGTCTGCTTTTCCAT
GAAATGAAATAGTGGCTAAAGCCCTGAAAGAGGCAAGACTACAATGGGCTGAAACAGTTGGTATAGCAACCCAG
AGAAGTGCTTCATTTCTTTTTATAGTAGAAGCAGGTCCATGTCTTTTGTGGTTTCCTGCACATCTTTGGAGTAG
TTATGACTTCTCAGTTTTTCCCCCTTAAACTGCATTGCCTATTCTTTTTTCTGACATGCTATCAGGTATCAGT
GTGTTGAATACATAATGCTTGTGTATCAGACTTACGTTACTGTATCACCATTAAAAGAATTGCAGCCTTGTGCC
CCATGACCTTCA

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FIGURE 1543

MAARTAFGAVCRRLWQGLGNFSVNTSKGNTAKNGLLLLSTNMKWQFSNLHVDVPKDLTKPVVTISDEPDILYKR
LSVLVKGHDKAVLDSYEYFAVLA AKELGISIKVHEPPRKIERFTLLQSVHIYKKHRVQYEMRTLYRCLELEHLTG
STADVYLEYIQRNLP EGVAMEVTKTQLEQLPEHIKEPIWETLSEEKEESKS

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FIGURE 1544

ATGGCGTCGGTGGTGTGGCGCTGAGGACCCGGACAGCCGTTACATCCTTGCTAAGCCCCACTCCGGCTACAGCT
CTTGCTGTCAGATACGCATCCAAGAAGTCGGGTGGTAGCTCCAAAAACCTCGGTGGAAAGTCATCAGGCAGACGC
CAAGGCATTAAGAAAATGGAAGGTCACATATGTTTCATGCTGGGAACATCATTGCAACACAGCGCCATTTCCGCTGG
CAGGAGGTGCCCATGTGGGTGTTGGGAAGAATAAATGTCTGTATGCCCTGGAAGAGGGGATAGTCCGCTACACT
AAGGAGGTCTACGTGCCTCATCCAGAAACACGGAGGCTGTGGATCTGATCACCAGGCTGCCCAAGGGTGCTGTG
CTCTACAAGACTTTTGTCCACGTGGTTCCTGCCAAGCCTGAGGGCACCTTCAAACCTGGTAGCTATGCTTTGA

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FIGURE 1545

MASVVLALRTRTAVTSLLSPTPATALAVRYASKKSGGSSKNLGGKSSGRRQGIKKMEGHYVHAGNI IATQRHFRW
HPGAHVGVGKNKCLYALEEGIVRYTKEVYVPHPRNTEAVDLITRLPKGAVLYKTFVHVVPAPKEGTFKLVAML

1697/2682
FIGURE 1546

GCAGACGCAGGGGTCGGCGCCGGGTGAGAGCGTGCGGCCGGATTACCCACAACATGGCAAATCTTTTTATAAGGA
AAATGGTGAACCCTCTGCTCTATCTCAGTCGTACACGGTGAAGCCTCGAGCCCTCTCCACATTTCTATTTGGAT
CCATTCGAGGTGCAGCCCCCGTGGCTGTGGAACCCGGGGCAGCAGTGCGCTCACTTCTCTCACCCGGCCTCCTGC
CCCATCTGCTGCCTGCGCTGGGGTTCAAAAACAAGACTGTCCTTAAGAAGCGCTGCAAGGACTGTTACCTGGTGA
AGAGGCGGGGTCGGTGGTACGTCTACTGTAAAACCCATCCGAGGCACAAGCAGAGACAGATGTAGACCCTTTCCC
TCCAGAGTCACGCACATACTCGTCATCGCATCACTTGGGAGAATGGTTGTATCTTATGGAAGGAATTATCACATC
AAGGAGTCAGGGGAAAGTGACTGGAAGCAAACGCCCTAAAAGTTACCCATCACGTTTCAGTGTAATGAGTAACT
ATAGAAGACATTGCGTTATCTTATTTCCAAAACGTTCCAATAAAAAACATTTTCCTATTAAAAATAGACCTTCCG
ATAAAAAAAAAA

1698/2682
FIGURE 1547

MANLFIRKMNPLLYLSRHTVKPRALSTFLFGSIRGAAPVAVEPGA AVRSLSPGLLP HLLPALGFKNKTVLKKR
CKDCYLVKRRGRWYVYCKTHPRHKQRQM

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FIGURE 1548

TAGTTTGCGTTTTTCACCTGGTCGCCC GGCGGCCATGGCGGCCGTTCTGAAGCCGGTGCTGCTGGGCCTTCGAGAT
GCGCCGGTGACGGCAGCCCCACAGGGCCGGGTGCCTGGACTGCTAGCAAGCTGGGCGGCATTCCGGATGCTCTG
CCCACCGTGGCTGCGCCCAGGCCCGTGTGTACGCGCTGCGGGCAGCCGCTCGCTCTGGTCGTGCAGGTGTATTGC
CCGCTGGAAGGCTCCCCGTTTCACCGTCTGCTGCACGTGTTTCGCGTGCGCCTGCCCGGGCTGTAGCACCGGCGGT
GCGCGCAGCTGGAAGGTGTTCCGCTCCAGTGCCCTGCAGGTGCCAGAGAGAGAGGCGCAGGACGCTCAGAAACAG
GGAAACAGCCTTGACAGCTGAGGACTGGTGTGAAGGTGCTGATGACTGGGGAAGTGATACTGAGGAGGGGCCTTCA
CCACAGTTTACCTTGGATTTTGGGAATGATGCCAGCAGTGCCAAAGACGTAGACTGGACTGCTCGGCTCCAAGAC
CTCCGCCTGCAGGATGCTGTCTGGGTGCTGCCCATCCTGTGCCTCCTGGGCTGCCGCTCTTCCTGCCCTACTAC
ATCTGTGTTGCAGATGAGGATGATTACAGGGACTTTGTCAACCTGGATCATGCCACAGCCTTCTGAGGGACTAT
CAGCAGAGAGAAGGCATTGCCATGGATCAGTTGCTTTCCCAAAGCCTTCCTAATGATGGTGATGAAAAATATGAG
AAGACCATAATTAAAAGTGGAGATCAGACGTTTTACAAATTCATGAAGCGAATTGCTGCTTGTGAGGAGCAGATT
TTGAGGTATTCTGGAGTGGAGAGCCACTCTTTTTGACCTGCCCTACATCAGAAGTCACCGAGCTCCCAGCCTGC
AGCCAGTGTGGAGGCCAAAGGATATTTGAGTTTCAGCTTATGCCAGCACTGGTCAGCATGCTCAAGAGTGCTAAT
TTAGGTCTTTCTGTGGAATTTGGAACAATTCTAGTTTACACATGTGAGAAGAGTTGCTGGCCCCCAAATCATCAG
ACTCCCATGGAAGAATTTGTATTATACAAGAAGACCCAGATGAATTATTGTTTAAGTTAGAGCATTTCCTTTTAT
TAATATAAATTAAAACAAATGTTTACATCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1549

MAAVLKPVLLGLRDAPVHGSPIGPGAWTASKLGGIPDALPTVAAPRPVCQRCGQPLALVVQVYCPLEGSPFHRL
HVFACACPGCSTGGARSWKVFRSQCLQVPEREAQDAQKQGNSLAAEDWCEGADDWGSDEEGPSPQFTLDFGNDA
SSAKDVDWTARLQDLRLQDAVLGAHPVPPGLPLFLPYIICVADEDDYRDFVNLDHAHSLLRDYQQREGIAMDQL
LSQSLPNDGDEKYEKTIKSGDQTFYKFMKRIAACQEILRYSWSGEPLFLTCPTSEVTELPACSCGGQRIFE
QLMPALVSMMLKSANLGLSVEFGTILVYTCEKSCWPPNHQTPMEEFCIIQEDPDELLFK

1701/2682
FIGURE 1550

CCTCGCCCCGCCTACGCGGGAACCCAACCGCGGCGACCGGACGTGCACTCCTCCAGTAGCGGCTGCACGTCGTGC
AATGCCCCGCTATGAGGAGGTGAGCGTGTCCGGCTTCGAGGAGTTCCACCGGGCCGTGGAACAGCACAATGGCAA
GACCATTTTCGCCTACTTTACGGGTTCTAAGGACGCCGGGGGAAAAGCTGGTGCCCCGACTGCGTGCAGGCTGA
ACCAGTCGTACGAGAGGGGCTGAAGCACATTAGTGAAGGATGTGTGTTTCATCTACTGCCAAGTAGGAGAAAAGCC
TTATTGGAAAGATCCAAATAATGACTTCAGAAAAAACTTGAAAGTAACAGCAGTGCCTACACTACTTAAGTATGG
AACACCTCAAAAACTGGTAGAATCTGAGTGTCTTCAGGCCAACCTGGTGGAATGTTGTTCTCTGAAGATTAAGA
TTTAGGATGGCAATCATGTCTTGATGTCTGATTTGTTCTAGTATCAATAAACTGTATACTTGCTTTGAATTCA
TGTTAGCAATAAATGATGTTAAAAAACTGGCATGTGTCTAAACAATAGAGTGCTATTAAAATGCCCATGAACCT
TTAGTTTGCCTGTAATACATGGATATTTTTAAGATATAAAGAAGTCTTCAGAAATAGCAGTAAAGGCTCAAAGGA
ACGTGATTCTTGAAGGTGACGGTAATACCTAAAAACTCCTAAAGGTGCAGAGC

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FIGURE 1551

MARYEEVSVSGFEEFHRAVEQHNGKTIFAYFTGSKDAGGKSWCPDCVQAEPPVREGLKHISEGCVFIYCQVGEKP
YWKDPNNDFRKNLKVTAVPTLLKYGTPQKLVESECLQANLVEMLFSED

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FIGURE 1552

GGCACGAGGGTCATCGCCGCGGGGCGGAGGCGACAGTGTCTAGCGGGAGCTCCGCGTGTAGCTACGCCGGCCGCC
TGGCTTTGAGACAACGTGATTCTCCGACAGCTGGTTCGCCTACCCGTGATGTTCTGCCCCACGTCGAGACCTGAGCTG
AAATGGCAGACGATCTCGGAGACGAGTGGTGGGAGAACCAGCCGACTGGAGCAGGCAGCAGCCCAGAAGCATCAG
ATGGTGAAGGAGAAGGAGACACAGAAGTGATGCAGCAGGAGACAGTTCAGTTCCTGTACCTTCAGAGAAAACCA
AACAGCCTAAAGAATGTTTTTTGATACAACCAAAGGAAAGAAAAGAGAATACCACCAAGACCAGGAAAAGAAGAA
AGAAGAAAATTACTGATGTTCTTGCAAAATCAGAACCAAAACCAGGGTTACCTGAAGACCTACAGAAGCTGATGA
AGGACTATTATAGCAGCAGACGCTTGGTGATTGAATTAGAAGAACTGAACCTGCCAGACTCCTGTTTCTCAAGG
CCAATGATTTGACTCACAGTCTTTCCTCATACCTAAAAGGAATTTGTCTAAGTGGGTAAAACCTTAGGAAGAACC
ACAGTGAGAAGAAATCGGTCCTGATGCTGATCATCTGCAGCTCGGCCGTCCGAGCCCTGGAGCTCATTAGGTCGA
TGACAGCATTAGAGGAGACGGCAAAGTTATAAAATTATTTGCAAAGCACATAAAGGTCCAGGCGCAGGTAAAGT
TGCTGGAGAAGCGTGTGGTGACCTGGGTGTAGGAACCTCCGGGGAGAATTAAAGAACTTGTTAAACAAGGTGGCC
TTAATTTGAGCCCTTAAATTTCTGGTTTTTACTGGAACCTGGAGAGATCAGAAGTTGAGGAGAATGATGGACA
TTCCCGAGATAAGAAAGGAGGTATTCGAACTTCTGGAAATGGGAGTGCTCAGTCTGTGCAAGTCAGAATCCTTGA
AACTGGGCCTTTTCTAAGTCTGTGTCCTAATGAAGATTCCAGTTTTACAGTAGAAGTTGCATCTTATTTAATGA
CTCTGATACATTGCAAGCACTCAGTAAATATCAGCAAATAGTTTATGTTAATTGTGTCAACAGATGGATCACTGG
AATGTGGGGATTCTGAAACAGAAATGAAACTGTCCTTTTGACAACTCTCTTATATAATAAAGTATCACCGGCTTG
TGATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1553

MADDLGDEWWENQPTGAGSSPEASDGEGEEDTEVMQQETVPVPVPSEKTKQPKECFLIQPKERKENTTKTRKRRK
KKITDVLAKSEPKPGLPEDLQKLMKDYSSRRLVIELEELNLPDSCFLKANDLTHSLSSYLKGICPKWVKLRKNH
SEKKSVMMLIICSSAVRALELIRSMATAFRGDGKVIKLFAXHIKVQAQVKLLEKRVVHLGVGTPGRIKELVKQGGL
NIGPLKFLVFDWNWRDQKLRRMMDIPEIRKEVFELLEMGVLSLCKSESCLKGLF

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FIGURE 1554

GGGTGTTCTGACTGCTAGAGCCGAGCGAAGCGATGCCTAAATCAAAGGAACCTGTTTTCTTCAAGCTCTTCTGGCAG
TGATTCTGACAGTGAGGTTGACAAAAAGTTAAAGAGGAAAAAGCAAGTTGCTCCAGAAAAACCTGTAAAGAAACA
AAAGACAGGTGAGACTTCGAGAGCCCTGTCATCTTCTAAACAGAGCAGCAGCAGCAGAGATGATAACATGTTTCA
GATTGGGAAAATGAGGTACGTTAGTGTTTCGCGATTTTAAAGGCAAAGTGCTAATTGATATTAGAGAATATTGGAT
GGATCCTGAAGGTGAAATGAAACCAGGAAGAAAAGGTATTTCTTTAAATCCAGAACAAATGGAGCCAGCTGAAGGA
ACAGATTTCTGACATTGATGATGCAGTAAGAAAACGTAAATTCGAGCCATATAAAATAAAACCTGTACTGTTCT
AGTTGTTTTAATCTGCTTTTTTACATTGGCTTTTGTCTTCTAAATGTTCTCCAAGCTATTGTATGTTTGGATTGC
AGAAGAATTTGTAAGATGAATACTTTTTTTAATGTGCATTATTAATAATATTGAGTGAAGCTAATTGTCAACTT
TATTAAGGATTACTTTGTCTGCCCACCACCTAGTGTAATAATAAATCAAGTAATACAATCTTAAGTGTGTGGCC
TTTTTTGATCATAAGAGTTGGTACTGTTTAAGGCCAAAAGTAACAGTTTTTATAGATCTTTTAGTTTCAACTCAG
CTTTTACAATAAAAAGGATTTGTATTGCATTGAGTTTATAAACTTTTGGTTTGTGAACCTCATATTTGATCTTTT
CTCTTCCAATCAAATGTCTAGGCTTGTGTTGACTTCCACCCCAATGGTTTTTCACTCTTTTTTACTTTCATTT
TCCTTTAATAACTTAATCTCTTCATGTTTCAGTTTTTACTTCACTCTTTATTCTTTTCTTTGATTATGGTATGCTT
ATTTGGAAAGTCAGTGAAACTGTCAAAATGTTATCTCAATAAGATACTTATATGAGAACTACAATCACCGAATCT
ACTGTATTCAATATTAGCAGATCTAATTTGATAAAACAACATGGCTTGTGTGAAACTGAGCAGGTGTTTGTGTTAC
CCATAGTGTTCTGTGTAGTTATTGCTTAGTCTGCAGAAAATAATGACTTAGATGAGATGTCTGACTTGCTTTCAC
TTATTAAACATGTTACCATGGGATGATGTCTGTAACATCAGATATTGTTCAACTAGACTAGGATTTAATAAAAA
TTGTGAAAGCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1555

MPKSKELVSSSSSGSDSDSEVDKKLKRKKQVAPEKPVKKQKTGETSRALSSSKQSSSRDDNMFQIGKMRYVSVR
DFKGVLDIREYWMDPEGEMKPGRKGISLNPEQWSQLKEQISDIDDAVRKL

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FIGURE 1556

ATTTTCCGGGAAGATGGCGGCGCACAAAGTCAGGTCCGGCACATGTTTCCGCGGAGCGGACCCAGCAATGACGGAT
GATATCACCTCTTCTTCTCTGGTGAGAGTCTGAGGATAGAGACTTTTTTCTCACCATGAATGTCACCCAGAGGT
CAAGAGTCGTGGGATGAAGTTTGCTGAGGAGCAGCTGCTAAAGCATGGATGGACTCAAGGCAAAGGCCTCGGCCG
GAAGGAGAATGGTATCACTCAGGCTCTCAGGGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACCCTGC
CAAGGAGTTCACAAACCACTGGTGGAATGAGCTCTTCAACAAGACTGCGGCCAACTTGGTAGTGAAACTGGGCA
GGATGGAGTACAGATAAGGAGCCTTTCTAAGGAGACCACCCGTTATAATCATCCCAAGCCCAACTTGCTGTATCA
GAAGTTTGTGAAGATGGCCACATTGACTTCAGGTGGAGAGAAGCCAAACAAAGACTTGGAGAGCTGCAGTGATGA
CGACAACCAGGGGTCCAAGTCCCCAAAGATTCTGACTGATGAGATGCTGCTCCAAGCCTGTGAGGGGCGAACAGC
ACACAAGGCTGCCCCGTCTTGGGATCACAATGAAGGCCAAGCTTGCTCGCCTAGAGGCCCAGGAGCAGGCCTTCCT
GGCTCGTCTCAAAGGCCAGGACCCTGGGGCCCCTCAACTGCAGTCAGAGAGCAAGCCCCCAAAAAAAAAAAAAA
AAA

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FIGURE 1557

MNVTPEVKSRGMKFAEEQLLKHWGTQGKGLGRKENGITQALRVTLKQDTHGVGHDPKEFTNHWWNELFNKTAAN
LVVETGQDGVQIRSLSKETTRYNHPKPNLLYQKFVKMATLTSGGEKPNKDLESCSDDDNQGSKSPKILTDEMLLQ
ACEGRTAHKAARLGITMKAKLARLEAQEQAFRLRLKGQDPGAPQLQSESKPPKKKKK

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FIGURE 1558A

GTGGACCCAGGGTGGGGAACCTACCTCTTCCTCTCCACGCGGTTGAGAAGACCGGTTCGGCCTGGGCAACCTGCGCT
GAAGATGCCGGGAAAACCTCCGTAGTGACGCTGGTTTGGAAATCAGACACCGCAATGAAAAAGGGGAGACACTGCCG
AAAGCAAACCGAGGAGAAAGAGAAAAAGAGAAGCCAAAATCTGATAAGACTGAAGAGATAGCAGAAGAGGAAGA
AACTGTTTTCCCCAAAGCTAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAATTCTCCTAAATC
CAAAAAGGCAAAAAGAAAGAGGAGCCATCTCAAAATGACATTTCTCCTAAAACCAAAAGTTTGAGAAAGAAAAA
GGAGCCCATTGAAAAGAAAGTGGTTTCTTCTAAAACCAAAAAGTGACAAAAAATGAGGAGCCTTCTGAGGAAGA
AATAGATGCTCCTAAGCCCAAGAAGATGAAGAAAGAAAGGAAATGAATGGAGAAACTAGAGAGAAAAGCCCCAA
ACTGAAGAATGGATTTCTCATCCTGAACCGGACTGTAACCCAGTGAAGCTGCCAGTGAAGAAAGTAACAGTGA
GATAGAGCAGGAAATACCTGTGGAACAAAAGAAGGCGCTTCTCTAATTTTCCCATATCTGAAGAACTATTAA
ACTTCTCAAAGGCCGAGGAGTGACCTTCTTATTTCTATACAAGCAAAGACATTCCATCATGTTTACAGCGGGAA
GGACTTAATTGCACAGGCACGGACAGGAAGTGGGAAGACATTCTCCTTTGCCATCCCTTTGATTGAGAACTTCA
TGGGGAACCTGCAAGACAGGAAGAGAGGGCCGTGCCCCCTCAGGTACTGGTTCTTGACCTACAAGAGAGTTGGCAA
TCAAGTAAGCAAAGACTTCAGTGACATCACAAAAAGCTGTCAAGTGGCTTGTTTTATGGTGGAACTCCCTATGG
AGGTCAATTTGAACGCATGAGGAATGGGATTGATATCCTGGTTGGAACACCAGGTCGTATCAAAGACCACATACA
GAATGGCAAACCTAGATCTCACCAAACCTTAAGCATGTTGTCTGGATGAAGTGGACCAGATGTTGGATATGGGATT
TGCTGATCAAGTGGAAAGAGATTTTAAGTGTGGCATACAAGAAAGATTCTGAAGACAATCCCCAAACATTGCTTTT
TCTGCAACTTGCCCTCATTTGGGTATTTAATGTTGCCAAGAAATACATGAAATCTACATATGAACAGGTGGACCT
GATTGGTAAAAAGACTCAGAAAACGGCAATAACTGTGGAGCATCTGGCTATTAAGTGCCACTGGACTCAGAGGGC
AGCAGTTATTGGGGATGTCTATCCGAGTATATAGTGGTCATCAAGGACGCACTATCATCTTTTGTGAAACCAAGAA
AGAAGCCCAGGAGCTGTCCCAGAATTCAGCTATAAAGCAGGATGCTCAGTCTTGCATGGAGACATTCCACAGAA
GCAAAGGGAAATCACCTGAAAGGTTTTAGAAATGGTAGTTTTGGAGTTTTGGTGGCAACCAATGTTGCTGCACG
TGGGTTAGACATCCCTGAGGTTGATTTGGTTATACAAAGCTCTCCACCAAAGGATGTAGAGTCTACATTCATCG
ATCCGGGCGGACAGGCAGAGCTGGAAGGACGGGGGTGTGCATCTGCTTTTATCAGCACAAGGAAGAATATCAGTT
AGTACAAGTGGAGCAAAAAGCGGGAATTAAGTTCAAACGAATAGGTGTTCTTTCTGCAACAGAAATAATAAAGC
TTCCAGCAAAGATGCCATCAGGCTTTTGGATTCCGTGCCTCCCACTGCCATTAGTCACTTCAAACAATCAGCTGA
GAAGCTGATAGAGGAGAAGGGAGCTGTGGAAGCTCTGGCAGCAGCACTGGCCCATATTTAGGTGCCACGTCCGT
AGACCAGCGCTCCTTGATCAACTCAAATGTGGGTTTTGTGACCATGATCTTGCAGTGCTCAATTGAAATGCCAAA
TATTAGTTATGCTTGGAAGAAGCTTAAAGAGCAGCTGGGCGAGGAGATTGATTCCAAAGTGAAGGGAATGGTTTT
TCTCAAAGGAAAGCTGGGTGTTTGTCTTTGATGTACCTACCGCATCAGTAACAGAAATACAGGAGAAATGGCATGA
TTCACGACGCTGGCAGCTCTCTGTGGCCACAGAGCAACCAGAAGTGAAGGACCACGGGAAGGATATGGAGGCTT
CAGGGGACAGCGGGAAGGCAGTCGAGGCTTCAGGGGACAGCGGGACGGAAACAGAAGATTAGAGGACAGCGGGA
AGGCAGTAGAGGCCCGAGAGGACAGCGATCAGGAGGTGGCAACAAAAGTAACAGATCCCAAAACAAAGGCCAGAA
GCGGAGTTTCAAGTAAAGCATTGTTGTTCAATTAAGTAAATAGAAGATTTATATAGCAAAAAGAGAATGATGTTTGG
CAATATAGAAGTGAACATTATTTTTCATGCAAAGTTAAAAGCACATTGTGCCTCCTTTTGACCACTTGCCAAGTC
CCTGTCTCTTTCAGACACAGACAAGCTTCATTTAAATTATTTTCATCTGATCATTATCATTATACTTTATTGTT
ACTTCTTCATCAGTTTTTCTTTTGAAGGTGTATGAATTCATTACATTTTTATTCTAATGTATTATCTGTAGAT
TAGAAGATAAAATCAAGCATGTATCTGCCTATACTTTGTGAGTTCACCTGTCTTTATACTCAAAGTGTCCCTTA
ATAGTGTCTTCCCTGAAATAAATACCTAAGGGAGTGTAACAGTCTCTGGAGGACCACTTTGAGCCTTTGGAAGT
TAAGGTTTTCTCAGCCACCTGCCGAACAGTTTCTCATGTGGTCTTATTATTGTCTACTGAGACTTAATACTGAG
CAATGTTTTGAAACAAGATTTCAAACCTAATCTGGGTTGTAATACAGTTTATACCAGTGTATGCTCTAGACTTGGA
AGATGTAGTATGTTTGTATGTGGATTACCTATACTTATGTTTCGTTTTGATACATTTTTAGCTTCTCATTATAAGGT
GATTCATGCTTTAGTGAATTTCTCATAGATAGTATATATAAAGTACATTTTAATAGAAAGCCAGGGTTTTAAGG
AATTTACATGTATAAGGTGGCTCCATAGCTTTATTTGTAAGTAGGCTGGATAAATGGTGCTTAAATGGTAATGT
ACTCCACTTCTTCTATTGGAAGATTAACATTATTTACCAAGAAGGACTTAAGGGAGTAAGGGGCGCAGATTAGC
ATTGCTCAAGAGTATGTAAAAAAGAGAAAGAAAGCAAGTATGATTTGGATGATAAAGCATTGTTTTAATGGTGAAAA
CTTCACAGATCACTAATGTTTCTAGAGGTTAACTTCAAGTGGGCAAGCTGGGGTTTTTAGGTAGTCAGTGGCCTA
GTTCTAAAGCCACAGTATAGGATCTGTAAACTGAATGTCTGTTGAAAGTTGTTTTAGCTGCTTGGAGGCTTC

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FIGURE 1558B

CTTTTAAGACAAACTGTATGTGATTAAGTTGTTTTGAGGGAACCTGAAGAACCTGATGTAGCCCCTGGCCAGATAA
CTGCCCTGATTTCTCAGATATTATTTCTCTGGGAAACATTCTACATAGCACAGGAGCTTAAGAGTGGCATTATCTT
CTCGCCTTAATTTCCAGAGATTATTTCTGTACTGAGAATCCTGGAACCTACTATGCTAGGAAATTTAAAGCTGCAT
GGTCTGTCTTGTTCATTTAATTATTGTGAATACCTAGAATCTTTCTTGGTCCTGATTTCTCTTGCTTAATCCA
TATCTCTAACTGCCCCCTTATTTGATCACCATGTACTAGGAGCTCTGATAGCCAGCTCAGCTCCTAATCCT
CAACATTCTTTTTCTATTTGAACTTCAGTTCTGTCCTTGAATCCCGACTAGATATTTCTTGCCCTCTGGT
CAATTCTCTTGGCTTTTATTCCTTGATCCACTTGCCAGTTTTATCACTTTACCCCTTGTTCTCATGGCTTC
CAICAAGCCATGGGTATTAGGTGACAGTGTAATTTATTAGATTCTGGTTTTGCCCAAATACTGGGCATGCTTTA
CAACTGAACCATTTCATTATTTGGATAGGCATGGGTACCTTATCAAGCAGATTAAAAGGATATGGTACCCG
TAGAAAAGAACAGCTAAAACCTTGTTGTGGATTATGGATTTAGCCTAAAGAAAAATAATCTGGCATAAAT
AGIAAGAGAGAAGATTAATAGAAATTTCACTTCACATAACTTAAAACATGGCTATTTCAATAAAGGACTAA
TCTCCTGGATCCCAGAATTCAACCTGTATTTATAAATGTATAATGTATTTAGCTACTTTTTGGTTTTAAATG
TGTGGGTTAGCTTGGTAAATGTTATAATTTTTACTGTTTTCTACAAAGAAAAATTTTTCTAATTTAAGTT
GAGCTATCTGTGCAGCAGTTTCTCTACAGTTGTGCATAAATGTTTTACTATAAAATGAGCTAATGTATAAAT
ACTGCTGTATACCATAATAAAGATAGTAATACTTGAAAAAA

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FIGURE 1559

WTQGGELPLPLHAVEKTGRPGQPALKMPGKLRSDAGLESDTAMKKGETLRKQTEEEKKKPKSDKTEEIAEEEE
TVFPKAKQVKKKAEPSEVDMNSPKSKAKKKKEEPSQNDISPKTSLRKKKEPIEKKVSSKTKKVTKNEEPSEEE
IDAPKPKMKKEKEMNGETREKSPKLKNGFPHPEPDCNPSEAASEESNSEIEQEIPVEQKEGAFSNFPISEETIK
LLKGRGVTFLLFPIQAKTFHHVYSGKDLIAQARTGTGKTFSAIPLIEKLHGELQDRKRGRAPQVLVLAPTRELAN
QVSKDFSDITKKLSVACFYGGTPYGGQFERMRNGIDILVGTPGRIKDHIQNGKLDLTKLKHVVLDDEVQMLDMGF
ADQVEEILSVAYKKDSEDNPQTLLFSATCPHWVFNVAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHWTQRA
AVIGDVIRVYSGHQRTIIFCETKKEAQELSONSAIKQDAQSLHGDIPQKQREITLKGFRNGSFGVLVATNVAAR
GLDIPEVDLVIQSSPPKDVESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKFKRIGVPSATEIIKA
SSKDAIRLLDSVPPTAISHFKQSAEKLIEEKGAVEALAAALAHISGATSVDQORSLINSNVGFVTMILQCSIEMP
ISYAWKELKEQLGEEIDSKVKGMVFLKGKLGVCFDVPTASVTEIQEKWHDSSRRWQLSVATEQPELEGPREGYGGF
RGQREGSRGFRGQRDGNRRFRGQREGSRGPRGQSRGGGNKSNRSQNKGOKRSFSKAFGQ

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FIGURE 1560

CGAACACGCCGCGGTCCCTCGTCGTGGTGAGCGCAGCCACTCAGGCTGGTCCTGGGGGTGGGGCTGTAGGGGAAAG
TGCTAAAGCCGCTGAGTGAAGTAAGAACTCTGCTAGAGAGGAAATGCTGCTTCATCATCATCCTCCTCAGCTGG
TGGGGTCAGTGGAAGTTCTGTCACTGGATCTGGTTTCAGTGTCTCAGACCTTGCCCCACCACGGAAAGCCCTTTT
CACCTACCCCAAAGGAGCTGGAGAGATGTTAGAAGATGGCTCTGAGAGATTCTCTGCGAATCTGTTTTTAGCTA
TCAAGTGGCATCCACGCTTAAACAGGTGAAACATGATCAGCAAGTTGCTCGGATGGAAAACTAGCTGGTTTGGT
AGAAGAGCTGGAGGCTGACGAGTGGCGGTTTAAGCCCATCGAGCAGCTGCTGGGATTACCCCTCTTCAGGTG
AATACTGCCTGGATGGTCACCTCTGGTGCGCAGCAAGTGCAAAGCCAGTGGGGACTTTCTCACAGCTTACATAGC
CATCCAGAGATCCACAGCTACGTCACTGAATTGTTAATGCACATTTGTACTTGGTTTCTCTGTATCTATTCACAG
GCAACAAATACTTATATGTGTGATCTTTCAGGGAATGTTTTGTTTATTTGTTTTTAAAAGTATTGGGAATCAGAT
TAAGACAATCAGTTTCAGAGAACCAGGAGGTTTGGGGTTAAGAGATACTCAAAAATTTTCACAAGCCAAGTAGGG
CATATATCAGATTTGGCCAACTGAATGGCGTCTGTCCTGTATCCATATGGTGCCTGGAAATATTTACCAGTCAA
GGTCAAGGTCAGCATCTGTGGTTAAAAATATAGCATTCTGACCTAAAAAAGTTATTTTGCAGATGAATGIGTTTT
CAACTCAGGACCTATCCAAATGAGGAATTTTTAAATATTCTTTTTTTTTTCTATTTTACATCAATTCTATA
GATTCTGACTTTTTCTAACCTCTTATAGACATGCCAAATGCTGGCAAAAAGAAGTGCTTTTTGGATATGGCAGCA
CTTGTA AAAATAAAGCAGTAAGCAAAATCCTTTTAAACACAGAAATCCTGAGTTCTTCTCATTGGTGGACTCAAG
CAATTCTGTAGCAAATAAATCCTTTGAAAGAGCTCCAAAAAAAAAAAAAAAAA

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FIGURE 1561

MAASSSSSSAGGVSGSSVTGSGFSVSDLAPPRKALFTYPKGAGEMLEDGSEFLCESVFSYQVASTLKQVKHDQQ
VARMEKLAGLVEELEADEWRFKPIEQLLGFTPSSG

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FIGURE 1562

AGCGCCGCGTGGTTAGCGTCGGCGGCTTTTGGCATGGCGACTTTTTCTGGCCCGGCTGGGCCAATCCTGTCGCTT
AATCCGCAGGAAGATGTCGAGTTTCAAAGGAGGTGGCGCAGGTTGCAAGCGCATAACCCAGCGAAAAAAACAA
GAACAACCTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCCAGATCTTTTCATAT
TTCTCCCAGTTTGGCACTGTGACACGGTTCAGGCTGTCCAGAAGTAAAAGGACTGGAAATAGCAAAGGCTATGCA
TTTGTGGAGTTTGGAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACCTACCTGTTTGGTGAAAGA
CTCTTGGAGTGTCATTTTATGCCACCTGAAAAAGTACATAAAGAAGCTCTTTAAAGACTGGAATATTCCATTTAAG
CAGCCATCATATCCATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTACGGATGGAGGAGCGA
TTTAAAAAGAAAGAAAGATTACTCAGGAAGAAATTAGCTAAAAAAGGAATTGACTATGATTTTCCTTCTTTGATT
TTACAGAAAACGGAAAGTATTTCAAAAACCTAATCGTCAGACGTCTACAAAAGGCCAGGTTTTACGTAAGAAGAAG
AAAAAGTTTCAGGTACTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACACCAGTTTGTACACCA
ACATTTTTGGAGAGGCGAAAATCTCAAGTGGCTGAACTGAATGATGATGATAAAGATGATGAAATAGTTTTCAA
CAGCCCATATCCTGTGTAAAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGAAAAAAGACGAAGA
AGCAGCAATCAGTGATTTTTCAATGTATTATATTTCTTTTGAAAAATATAATATTTTTATGAGAGTGGACTTTGTA
TTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTTTGGTCAAGTTAAGG
AAAGCAGTGTGTAATTTTGGATTGCCTGCCCTTGGCTGAAATACAGGGGTGCATACCATCTTGCAGTGGCTTGGC
TGACATTGCCTCTCTGTCCTGGCCTCTAGTTTTCTTTTGATATTTTCATAGCTCTCCTTAGTTTACTCTGCCTGGA
TAGAAAGTTGACCACTAACTGCAGGTTTAAAGTACTAACTGCAGCCTTTTCTGTGCCAGCAATTAAAGACCACC
AATCTTGTTTGTCCATCTACATGGTTTGTGCGGGGACATTTAACTCATGGAGGTGCTTTAGATTTCAACATCAGAT
GGTTGAAGCTGGAAGTTTAATTATATGTAGAGTGAGAAGGCAGTTCCAGTTTGTAGCACAGATTTGTTTATGTGT
CAGATTTTAAATAGAGATTCAAAAATGACTCATTTTTACCAATAATGTTAAATTAGTTTTGGTTGTGCTAGCATGA
ATTAATAACCACCATTTTATACCAGTATCATCAGTGAAGAATTGTATTTCAAGATTCAAACAATAACCAGCAATT
AAACTTTTTTCTACAATGTAAAAA

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FIGURE 1563

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQIFSYFSQFGTVTRFR
LSRSKRTGNSKGYAFVEFESEDAKIVAETMNNYLFGERLLECHFMPPEKVHKELFKDOWNIPFKQPSYPSVKRYN
RNRTLQKLMEERFKKKERLLRKKLAKKGIDYDFPSLILOKTESISKTNRQTSTKGQVLRKKKKKVSGTLDTP
KTVD SQGPTPVCTPTFLERRKSQVAELNDDDKDDEIVFKQPI SCVKEEIQETQTPTHSRKKRRRSSNQ

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FIGURE 1564

AGCGGGTTTGC GGGAGCGCCGCGTGGTTAGCGTCGGCGGCTTTTGGCATGGCGACTTTTTCTGGCCCGGCTGGGC
CAATCCTGTCGCTTAATCCGCAGGAAGATGTCGAGTTTCAAAAGGAGGTGGCGCAGGTTTCGCAAGCGCATAACCC
AGCGAAAAAACAAGAACAACCTTACTCCTGGAGTAGTCTATGTGCGCCACCTACCTAACCTACTTGACGAAACCC
AGATCTTTTTCATATTTCTCCCAGTTTGGCACTGTGACACGGTTCAGGCTGTCCAGAAGTAAAGGACTGGAAATA
AGGCTATGCATTTGTGGAGTTTGAGTCTGAGGATGTTGCCAAAATAGTTGCTGAAACAATGAACAACCTACC
GGTGAAAGACTCTTGGAGTGTCAATTTATGCCACCTGAAAAAGTACATAAAGAAGCTTTTAAAGACTGGA
AGCCATTTAAGCAGCCATCATATCAATCAGTGAAACGGTATAATCGGAATCGGACACTAACACAAAAGCTAC
GATGGAGGAGCGATTTAAAAAGAAAGAAAGATTACTCAGGAAGAAATTAGCTAAAAAAGGAATTGACTATGATT
TCTTTGATTTTACAGAAAAACGGAAAGTATTTCAAAAACCTAATCGTCAGACGTCTACAAAAGGCCAGGTTT
AAGAAGAAGAAAAAAGTTTCAGGTACTCTTGACACTCCTGAGAAGACTGTGGATAGCCAGGGCCCCACAC
TGTACACCAACATTTTTGGAGAGGCGAAAATCTCAAGTGGCTGAAGTGAATGATGATGATAAAGATGATG
TAGTTTTCAAACAGCCCATATCCTGTGTAAAAGAAGAAATACAAGAGACTCAAACACCTACACATTCACGGA
AAAAGACGAAGAAGCAGCAATCAGTGATTTTTCAATGTATTATATTTCTTTTGAAAAATATAATATTTTATGA
GATGGACTTTGTATTTCACTAGGTACAATGGAATACAACCTTTGACAAGATTTTCAGAGGAAAAATACACTGTT
TGGTCAAGTTAAGGAAAGCAGTGTGTAATTTTGGATTGCCTGCCCTTGGCTGAAATACAGGGGTGCATACCATCT
TGCAGTGGCTTGGCTGACATTGCCTCTTTGTCTGGCTCTAGTTTTCTTTTGATATTTTCATAGCTCTCCTTAGT
TTACTCTGCCTGGATAGAAAGTTGACCACTAACTGCAGGTTTAAGTACTAACTGCAGCCTTTTCTGTGCCAGC
AATTAAAGACCACCAATCTTGTTTGTCCATCTACATGGTTTGTGCGGGACATTTAACTCATGGAGGTGCTTTAGA
TTTCAACATCAGATGGTTGAAGCTGGAAGTTTAATTATATGTAGAGTGAGAAGGCAGTTCCAGTTTACACAGA
TTTGTTTATGTGTTAGATTTTAAAGAGATTCAAAAATGACTCATTTTTACCAATAATGTTAAATTAGTTTGG
TTGTGCTAGCATGAATTAATAACCACCATTTTATACCAGTATCATCAGTGAAGAATTGTATTTCAAGATTCAAAC
AATAACCAGCAATTAACTTTTTTCTACAATGTATTTGTTTGCAGTAGGACTTGGGAGTCATTGGAAAAA
ATAATAATTTTCCCCTTCATTAACAAAAA

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FIGURE 1565

MATFSGPAGPILSLNPQEDVEFQKEVAQVRKRITQRKKQEQLTPGVVYVRHLPNLLDETQIFS YFSQFGTVTRFR
LSRSKRTGNSKGYAFVEFESEDVAKIVAETMNNYLFGERLLECHFMPPEKVHKELFKDWNIPFKQPSYQSVKRYN
RNRTL TQKL RMEERFKKKERLLRKKLAKKGIDYDFPSLILQKTESISKTNRQTSTKGQVLRKKKKKVSGTLDTPE
KTVD SQGPTPVCTPTFLERRKSQVAELNDDDKDDEIVFKQPI SCVKEEIQETQTPTHSRKKRRRSSNQ

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FIGURE 1566

ATTGAANTTAGGTGACCCNATNGAAGNGCTATNACGTNGCATGCACNGCGTACGTAAGCTCGGAATTCGGCTCGA
GAAAAAAAAAAGTGCCAGCGTATGAGGTAATTAGATTGGTTCTCTCCAGAGGTAACCTGCCAAGAAGAGATGCTA
TAGATGTTACTCCTATACTGTAAAACATTGTGAAATCAGATTACTTTAAAATGATGTATTACAAAGTTATGCAAA
AAAGCAGTTGTGACTATGGAAGCCCAAGGCTTATATCCCAGCTCTGTCTTACACTAAATATGGGTACAGTGTTC
CACTCTGTCCATAAAATGGGAGCTAATATTCTCCAACCTGTGTGCCTGACATGATGGTTAAAGGGATTAAACAAA
ACAATAGTTTGTAAATTTATTCTGTCAGAGCAAACCTGCTGGTAAATAAAAGGGACTAAGTTGACGAAAAATAAATT
TTAAAAACCTAATAAAACAAGTTTGTAAATTTATAATTGTATACAAATAAAAGATGTTACAAAAATTGCGCACTT
ATATGTATGTACCATGACATAACTAATTCGTTGAACAAGTTGTGAGACAATCCTTTCTGAGAAAAGGTAGACCTG
TTACATCGTCTGTGGGTTAGGGTCATGTCAGCACGTACCAGGTACATTCTAGCTTTTGTAGAGAAAGTAAAATCT
AGTGTGAGTATGTAGGCACTGAGCCAGGTGGCCTGCTTAACATAAAAGGACTGATTTCAGGGTGGCTGTGGGAG
CCTTTCTAATGCTCTAATTCTCTAGCCCCTTGCCCTGATCCAGCTGATTCCAAGAGCCAAGATTTTAGTCTTTCTT
GGTTGGCTTTTTTAAATGCTTTGGGCTTTCCTTTAATGTATCTTCAAAATCATT

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FIGURE 1567

LXLGDPXEXLXRXMHXVRKLGIRLEKKKSASV

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FIGURE 1568

GGCGCTCCGCCTGCTGCGCGTCTACGCGGTCCCCGCGGGCCTTCCGGGCCCCACTGCGCCGCGCGGACCGCCTCGG
GCTCGGACGGCCGGTGTCCCCGGCGCGCCGCTCGCCCGGATCGGCCGCGGCTTCGGCGCCTGGGGCTCGGGGCTC
CGGGGAGGCCGTGCCCCGCGATGCTGCTCTCCAAGTTCGGCTCCCTGGCGCACCTCTGCGGGCCCGGCGGCGTGG
ACCACCTCCCGGTGAAGATCCTGCAGCCAGCCAAGGCGGACAAGGAGAGCTTCGAGAAGGCGTACCAGGTGGGCG
CCGTGCTGGGTAGCGGCGGCTTCGGCACGGTCTACGCGGGTAGCCGCATCGCCGACGGGCTCCCGGTGGCTGTGA
AGCACGTGGTGAAGGAGCGGGTGACCGAGTGGGGCAGCCTGGGCGGCGCGACCGTGCCCTGGAGGTGGTGTCTGC
TGCGCAAGGTGGGCGCGGCGGGCGCGCGCGCGCTCATCCGCCTGCTGGACTGGTTTCGAGCGGCCCGACGGCT
TCCTGCTGGTGTGGAGCGGCCCCGAGCCGGCGCAGGACCTCTTCGACTTTATCACGGAGCGCGGCGCCCTGGACG
AGCCGCTGGCGCGCCGCTTCTTCGCGCAGGTGCTGGCCGCCGTGCGCCACTGCCACAGCTGCGGGGTGCTGCACC
GCGACATTAAGGACGAAAACTGCTTGTGGACCTGCGCTCCGGAGAGCTCAAGCTCATCGACTTCGGTTCGGGTG
CGCTGCTCAAGGACACGGTCTACACCGACTTCGACGGCACCCGAGTGTACAGCCCCCGGAGTGGATCCGCTACC
ACCGCTACCACGGGCGCTCGGCCACCGTGTGGTTCGCTGGGCGTGTCTCTACGATATGGTGTGTGGGGACATCC
CCTTCGAGCAGGACGAGGAGATCCTCCGAGGCCGCTGCTCTTCCGGAGGAGGGTCTCTCCAGAGTGCCAGCAGC
TGATCCGGTGGTGCTTGTCCCTGCGGCCCTCAGAGCGGCCGTGCTGGATCAGATTGCGGCCCATCCCTGGATGC
TGGGGGCTGACGGGGGCGCCCCGGAGAGCTGTGACCTGCGGCTGTGCACCCTCGACCCTGATGACGTGGCCAGCA
CCACGTCCAGCAGCGAGAGCTTGTGAGGAGCTGCACCTGACTGGGAGCTAGGGGACCACCTGCCTTGGCCAGACC
TGGGACGCCCCCAGACCCTGACTTTTTCTGCGTGGGCGCTCTCTCTGCGGAAGCAGTGACCTCTGACCCCTG
GTGACCTTCGCTTTGAGTGCCTTTTGAACGCTGGTCCCGCGGGACTTGGTTTTCTCAAGCTCTGTCTGTCCAAAG
ACGCTCCGGTCGAGGTCCCGCCTGCCCTGGGTGGATACTTGAACCCAGACGCCCCCTCTGTGCTGTGTGTCCGG
AGGCGGCCCTTCCCATCTGCCTGCCACCCGGAGCTCTTTCGCGCGCGCAGGGTCCCAAGCCCACCTCCCGCCCT
CAGTCTGCGGTGTGCGTCTGGGCACGTCTCTGCACACACAATGCAAGTCTGGCYTCCGCGCCCGCCGCCCCACG
CGAGCCGTACCCGCGCCAACTCTGTTATTTATGGTGTGACCCCTGGAGGTGCCCTCGGCCACCCGGGGCTATT
TATTGTTTAAATTTATTTGTTGAGGTATTTCTCTGAGCAGTCTGCCTCTCCCAAGCCCCAGGGGACAGTGGGGA
GGCAGGGGAGGGGTGGCTGTGGTCCAGGGACCCAGGCCCTGATTCTGTGCCTGGCGTCTGTCTGGCCCCGC
CTGTGAGAAGATGAACATGTATAGTGGCTAACTTAAGGGGAGTGGGTGACCCTGACACTTCCAGGCACTGTGCCC
AGGGTTTGGGTTTTAAATTATTGACTTTGTACAGTCTGCTTGTGGGCTCTGAAAGCTGGGGTGGGGCCAGAGCCT
GAGCGTTTAAATTTATTAGTACCTGTGTTTGTGTGAATGCGGTGTGTGCAGGCATCGCAGATGGGGGTCTTTCA
GTTCAAAAGTGAGATGTCTGGAGATCATATTTTTTATACAGGTATTTCAATTAAATGTTTTTGTACATAGAAA
AAAAAAAAAAAAAAAAAAGGGCGG

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FIGURE 1569

RSACCASTRSPRAFAHCAARTASGSDGRCPRRAARPD RPRLRRLGLGAPGRPSPAMLLSKFGSLAHL CGP GGVD
HLPVKILQPAKADKESFEKAYQVGAVLGSGGFGTVYAGSRIADGLPVAVKHVVKERVTEWGS LGGATVP LEVVLL
RKVGAAGGARGVIRLLDWFERP DGFLVLERPEPAQDLFDFITERGALDEPLARRFFAQVLA AVRHCHSCGVVHR
DIKDENLLVDLRSGELKLIDFGSGALLKDTVYTD FDGTRVYSPPEWIRYHRYHGRSATVWSLGVLLYDMVCGDIP
FEQDEEILRGRLLFRRRVSPECQQLIRWCLSLRP SERPSLDQIAAHPWMLGADGGAPESCDLRLCTLD PDDVAST
TSSSESL

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FIGURE 1570A

GACCGCGGCTGCAGGAACGGAGGCGGAAGGGGCCCCGCGGCGACGACGTCGTCGACGGGGGTGGCCGTGGGAGCT
GAGCACGGAGAAGACTCCCTCTCTCGGAAGCCGGATCCCCGAGCCGGGCAGGATGGATCACCACCAGCCGGGGACT
GGGCGCTACCAGGTGCTTCTTAATGAAGAGGATAACTCAGAATCATCGGCTATAGAGCAGCCACCTACTTCAAAC
CCAGCACCAGCAGATTGTGTCAGGCTGTGTCTTCAGCACCAGCACTTGAACTGACTCTTCCCCCTCCACCATATAGT
TACTGTGGAAGTACCTACAACCTTCAGATACAGAAGTTTACGGTGAGTTTTATCCCCGTGCCACCTCCCTAT
TGCTACCTCTCTTCCTACATACGATGAAGCTGAGAAGGCTAAAGCTGCTGCAATGGCAGCTGCAGCAGCA
TATCTCAAAGAATTCAGGAGGAAGAGTGTCCACCAAGAGATGACTTCAGTGATGCAGACCAGCTCAGAGTG
GGAATGATGGCATTTCATGCTGGCATTTCATGGCATTATTTTCAACTGGCTTGGATTTTGTATCCTTC
CCACCAATACCATAGCTGGAAGGTATGGTGCTATCTGCGGATTTGGCCTTTCCTTGATCAAATGGATCCTT
CAGGTTTTCTGATTATTTTACTGGATATTTCAATGGACAGTATTGGCTTGGTGATATTTCTTGACTT
GCTCCTTTTCTTCAGAGGATTTGTTAATTATCTAAAGTCAGAAACATGTCTGAAAGTATGGCAGCTGCT
GGAACAAGGTATTTCTTCTTATTGTAGAGACTGCATCAACCCGACATTCCTTTCTTATACCAATGTGAAATT
TAGATCATCTGTAAACCTACAACCTTAAATAGAAGACTACTAATAACAGAAAGACAATTAGTGAAGAAAAGACG
GATTTTCGAAATTGAATGGCAGGGTGGTTTTTGTCTACAAGCCATTTCTGTTTATTCTTTAAGTATCTATATTTT
ATTGTTTTTGCACATATGCATATGTGCCATTTAAGATATTTGCATATACTTGATAGAAACCATAAAGTTGTAGC
AGTTAAGTCCAGTCACATTTGGTTAATCAGTGTGTGATATAATTGAAAGAGTTGAGTGGATAAACAGTCTTCCAG
CTGTAAATGCCATTGACTTCTGACCTGACATTTAGTATAATAAAATGAAATTCTTAACCATGTCAAATGATTT
AGTTTCTGGCTCTTAGACTCATCTGGCAGTTCTACACATGAAACATCTTTTGTTATATAAGGTGTATTGAAACCT
GCAGTGCTGATTATTAGAAAGGATTTGTGCGGATTTTGAACATGATATTTACATTATTATTTAGGAAAACCTCTC
CTGTAAATAACCATGCATAACTTACTTTCTGCAATGTTTTCTTAGAAATTGTGTCCAGATAGCTTTCACTAATTT
TAAATTAAGTGAATAAATATATATGTGTATATGTATACACATATATATACACACACATATATATATTTAGAA
ACGTGAGTGTTAAAGATAGAATTTGTTTTAGGACAAATTTTAAAGAAATGTGGGAATACCAATGTCTTTTATAA
GAAAAATAAATTTTGTTTTAAAGGGACATACCAGTTTTAGGGATTTTCAGATGGGAAGCTGCATTTTATAGGATTGC
CCATCTTAAGAGATCTTGCAGGAAGAGATTGTATTAGATATTATATTTATTTTCATTTAAGATAATTTCAAAGTT
AATTTTCTAAATAAGATAATTTCTCATTGTGTGTGTCTTTTAAAGGCCAATAAAATATCTTTCAGTATCATTGT
AATAATTTTTTAGAGTTTAAATTTGTAAAGCTTAGCAAATAAAATCTTGTACTATGAATAGCTTCTTGCTTTATGA
CTTTAGGATTAACCTTGTAATAAACATATCCTGAACTGAGATATGCAAAATACTCATTTTCAAGTTATGGAAATGT
GTTTGTGGCATATAGGACTGTGGGTCTGTGTGTGTAGTGAGAGTGTGTAGCCACTATTATACTGGAATTTAAT
TTACATTCAATAACTACTATATTTCCCATCTTGCAATCATTTTATGTCTCATCTGTTTTCTTTCCGTTTATAT
CTTTGGTTTTGAATACCAACATTTAAATGATGGTATTTTATCTTTTAAACTTAAAAATTATTTAATACAGCTAT
ATGGACCTTATAAAATTGATTTCTTATTTATTATTAGACATTACTACTAAAAGGTACATCTAACTATTCAGGGAC
ATTTTTCCATTTCCAAAAATAAAATTTATTATGCTTTATAACCTCTTCTGTATTTTCTAATTTTTTTCATTGTCT
TTGATAAATAAAACAGTTTTGTTTTGCTAATATAGCCTATTTTTTGTGTCTCATTTCAGTTTACTTTTCTGCG
TAGAATTTTTTATTGTTATATTAATAATTTTATTGTTGTATTAAAGTACCTGTGTTACACCCCTTGAAGTAAGACA
GTAGCATGGGGTAAAGAAAAAATATTTAGTTTAGTTGCCAATTTGGAAGTTAATTAATAAATAAAGTACTAAT
AACATATTCAAACCTCATGCTGGATCTCTTTCATATTAATTTCTTATAGACCTGTACTTTATTCTTTCAATAATTT
TAAATGAAATTAAGCTTTGCTACATGGTAATTAATAATTACTAGGAAGCTTAGCTATCAAACATCGACTTACT
AAAATTTTCAATTTAGCTTTTATGGTATATGTGCTTGTCTGAAATATGGATACATGTTACTTTTGATCCAGCAT
CAAACTTCACTTTTTGTTTTGACTTTTCCCCCAATCTGTAAGGTTCAAGTATACATATTACTGAATCCTCTA
TAATTGGCATAATTCAATGGTAGCCTTAAATCTCATCATGTAAGCAGGGGAATCAGAATGTTATTTTCAAGAACT
TAATGTTCCCTTCAGATATATAAAATCCTGCATACCTTCAATTTCTGTGAGCTTGAACAGCTGCTGTGTGTTTTG
GGGATGCTTGATCATCTTGCACCTGCTTAAAGATTGAAAAATCAAACTCTTGTAGGGTATCTAAACATTT
TTGAGTGTGAAGTGGGATTGGAAGTTAATACAAAAAATTTCAAATTATTTCTATTGTAAATGAATAAGCTAGT
CATGGCTAGGATAATCCATTTTCATGTATTTATGCAATAAACTGAATTTTAAAGCAAAAAACAACATTTTCTATA
TAGTGATGCAGGACAGATTTTAGAACTTAGATTAAATACAAATCCCATACATTTGGTTAAATGAATCTCT
GCTTAATGGAAAAATACTAATCTTTAGCCTATTTTGAGTCTATAAGATATATTTTCAATTTAGACATGCCTTCTA
AGTTGTTTACAGATTTTTTACCTGCTAAACAATATTATTTCCAGTAAACCTCTCCTAACAGGAAAAGTGGAGTT
CAAAATATCCAATTGGAGAAAAATTCAGAGTTCCCTTCATTAAATATAATTTTTTTCATCTAGTATGTACTATTTT

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FIGURE 1570B

AAGAAGTGCAAAAAGTAATGATAGTGAATGTGATACCATACTTAACTAAGGTAATATATATCCTTAGTTTGCTCA
AAAGAGTCCTGGTTATTCCTGTTTTCTCAGCTTAATAGTGCCTCATCGTACTCTCAAAAGTGTTCTAATTTGGAG
GATAAGTTATATGATCATCCTGTGTATAATTGTAGACTGTACCAAGAAGCAACTACCTTAGCTCCACTGCCCTTT
GAGGGATGGAAGTGGGGTAAGGGCAGGAGCCAGTTATTATTGCCACAGTGTTTTCTAATGAACCATTGGCCTGT
AGAAGAGGAATAGTATTTTTTTAATAGTTGTATTTGAATGATTCCAGCTTATCGTAAATACTAACTGAATGGC
TTTTATATTTTTAACTGCTGTAAATGTTATTTTAGCATTTATTAGTTGTTTATTATTTAATTCTTCAAATAGTC
ATATGAAAACATATATTTGATAAAGGTCAATTGTTAGATGATAATGTGCCATTCAATTATCATAGGAATGTCCTTG
CCCATATATAAAACATGCTGGCATGTATTTTACTTGTTAATAAAGTTGTATAGATGTGGAAGTGTGAACCTGTGA
TGCATCCTTTTCAAATCAGTTTAAGATTTCGCATATTATCATGACTGTGACCTCACTAACTGTTTATGTGACAA
ACCTTTCAAGATTGGAGATGAAAACAACACTTGTGAAATTAGGTTGGGGTTGCAACATCTTTTAACTTCTCAGTT
ATTTGTATGTCAGGAAACAGATTGTGGTTTAATTTTAATAAACAAAATATCATCTTTTGAATAAT

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FIGURE 1571

DRGCRNGGGRGPAATTSSSTGVAVGAEHGEDSLSRKPDPEPGRMDHHQPGTGTRYQVLLNEEDNSESSAIEQPPTSN
PAPQIVQAVSSAPALETDSSPPPYSSITVEVPTTSDTEVYGEFYVPPPYSVATSLPTYDEAEKAKAAAMAAAAA
ETSQRIQEECPPRDDFSDADQLRVGNDGIFMLAFFMAFIFNWLGFCLSFCTINTIAGRYGAICGFGLSLIKWIL
IVRFSDYFTGYFNGQYWLWWIFLVLGLLFFRGFVNYLKVRNMSESMAAAHRTRYFFLL

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FIGURE 1572A

GCCTTATAAGTGGTTTAGTGCTCAGTTGGCTCTAGTAACCAGAGGACACAGAAAGTATCTTTTGAAAGTTTAGC
CACCTGTGCTTTCTGACTCAGAGTGCATGCAACAGTTAGATCATGCAACAGTTAGATTATGTTTAGGGTTAGGAT
TTTCAAAGAATGGAGGTTGCTGCACTCAGAAAATAATTAGATCATGTTTATGCATTATTAAGTTGTACTGAATT
CTTTCAGCTTAATGTGATATATGACTATCTTGAACAAGAGAAAAAACTAGGAGATGTTTCTCCTGAAGAGCTTT
TGGGGTTGGGAACATTCTTTTTTAATTGCTGTACTACTTAACATTGTTCTAATTCAGTAGCTTGAGGAACAGGA
ACATTGTTTTCTAGAGCAAGATAATAAAGGAGATGGGCCATACAAATGTTTTCTACTTTTCGTTGTGACAACATTG
ATTAGGTGTTGTGAGTACTATAAATGCTTGAGATATAATGAATCCACAGCATTCAAGGTCAGGTCTACTCAAAGT
CTCACATGGAAAAGTGAGTTCTGCCTTTCCCTTTGATCGAGGGTCAAAATACAAAGACATTTTTGCTAGGGCCTAC
AAATTGAATTTAAAACTCACTGCACTGATTCACTGAGCTTTTGGTTAGTATTCATGGCTAGAGTGAACATAGC
TTTAGTTTTTGTGCTGTGTAAAAGTGTTCCTAAGTTCACTCAAGAAAAATGCAGCTGTTCTGAACTGGAATTTTT
CAGCATTCTTTAGAAATTTAAATGAGTAGAGAGCTCAACTTTTATTCCCTAGCATCTGCTTTTGACTCATTCTAG
GCAGTGCTTATGAAGAAAAATTAAAGCACAAACATTCTGGCATTCAATCGTTGGCAGATTATCTTGTATGACAC
AGAATGAAAGGGCATCTCAGCCTCTCTGAACCTTGTA AAAATCTGTCCCGAGTTCTTCCATCGGTGTAGTTGTTC
ATTTGAGTGAATACTCTCTTGATTTATGTATTTTATGTCCAGATTTCGCCATTTCTGAAATCCAGATCCAACACAA
GCAGTCTTGCCGTTAGGGCATTGTAAGCAGATAGTAGAGTAAGAACTTAGTGACTACAGCTTATTCTTCTGTAA
CATATGTTTTCAAACATCTTTGCCAAAAGCTAAGCAGTGGTGAAGTGAAAAGGGCATATTGCCCAAGGTTACAC
TGAAGCAGCTCATAGCAAGTTAAATATTGTGACAGATTGAAATCATGTTTGAATTTCATAGTAGGACCAGTAC
AAGAATGTCCCTGCTAGTTTCTGTTTGATGTTTGGTTCTGGCGGCTCAGGCATTTTGGGAACGTGTGCACAGGGT
GGAGTCAAAACAACCTACATATAAAAAGAGAAAAAGAGAACTTGTCATTTAGCTTTTATAAGAAATCCCATGG
CAAAGGGTAATAAAAAGGACCTAATCTTAAAAATACAATTTCTAAGCACTTGTAAGAACCAGTGGGTGGAGCC
TCCCACCTTTGTCCCTCCTTTGAAGTGGATGGGAACCTCAAGGTGCAAGAACCTGTTTTGGAAGAAAGCTTGGGGC
CATTTACAGCCCCCTGTATTCTCATGATTTTCTCTCAGGAAGCACACACTGTGAATGGCAGACTTTTCATTTAGCC
CCAGGTGACTTACTAAAAATAGTTGAAAATTATTCACCTAAGAATAGAATCTCAGCATTGTGTTAAATAAAAATG
AAAGCTTTAGAAGGCATGAGATGTTCTTATCTTAAATAAAGCATGTTTCTTTTCTATAGAGAAATGTATAGTTTG
ACTCTCCAGAATGTACTATCCATCTTGATGAGAAAACCTTAAATAGTACCAAACATTTTGAACCTTTAAATTATG
TATTTAAAGTGAGTGTTTAAAGAACTGTAGCTGCTTCTTTTACAAGTGGTGCCATTAAAGTCAGTAATGGCCAT
TATTGTTCCATTGTGGAAATTAATTTATGTAAGCTTCTAATATCATAAACATATTAAAAATCTTCTAAATATT
GCTTTTCTTTTAAAGTGACAATTTGACTATTCTTATGATAAGCACATGAGAGTGTCTTACATTTTCCAAAAGCAGG
CTTTAATTGCATAGTTGAGTCTAGGAAAAATAATGTTAAAAGTGAATATGCCACCATAATTACTTAATTATGTT
AGTATAGAACTACAGAATATTTACCCTGGAAAGAAAATATTGGAATGTTATTATAAACTCTTAGATATTTATAT
AATTCAAAAGAAATGCATGTTTACATTGTGACAGATAAAGATGTATGATTTCTAAGGCTTTAAAAATTATTCTATA
AAACAGTGGGCAATAGATAAAGGAAATCTGGAGAAAATGAAGGTATTTAAAGGGTAGTTTCAAAGCTATATATA
TTTTGAAGGATATATTCTTTATGAACAAATATATTGTA AAAATTTATACTAAGGTCATCTGGTAACTGTGGGATT
AATATGGTTCGAAAACAAATGTTATGGAGAAGCTGTCCCAAGCAAACTAAATTACCTGTACTTTTTTCCCATTTCA
AGGGAAGAGGCAACCACATGAAGCAATACTTTTGA AAAATTTGTGAACCTTACCCAAAACCATTTATCATGTCCAT
TAAGTATATTTGGGTATATAATTAGGAAGATATTTACATGTTCCATCTCCACAGTGGAAAACTTATTGAGGCTA
CCAAAGTGTGCCAAGAAATGTAAGTCCTTAGAGTAATTAGAAATGCTGTTTTCTCAAAGCATGAGAACTAGC
ATTTTCATTTCTTATTTACTCCCTTTCTATATCAATGCAATTCACAACCCAATTTTAATACATCCCTATATCTCA
AGCATTCTATCTTGTACTTTTTTCAGAAAAATAAACCAAAAATAATCCTTGGTCTCTCTATCTTCTGACCTTGTA
GCAACAGAAATGTAAAAACAGAAGGGTCCAATTTTTACACGTTTTTTTTCTCAAGTAGCCTTTCTGGGGATT
ATTTTCTTAATGAAGTGCCAATCAGCTTTTCAAATGTTTTCTATTTCTCAGCATTTCAGGAAGTGATAACGTT
TAGCTAAATGAGTAGAAGTGGACTTCCTTCAACATATTGTTACCTTGTCTAGCCTTAGGAAGAAAAACAAGAGCCA
CCTGAAAATAAATACAGGCTCTTTTCGAGCATCTGCTGAAATACTGTTACAGCAATTTGAAGTTGATGTGGTAGG
AAAGGAAGGTGACTTTTCTTGCAAAAGTCTTTCTAAACATTACACTGTCCTAAGAGATGAGCTTTCTGTTTTTA
TTCCGGTATATTCCACAAGGTGGCACTTTTAGAGAAAAACAAATCTGATGAAGACTAAAGAGGTACTTCTAAAAG
AGATTTCAATTCTAACTTTATTTTTCTGCGCATATTTAACTCTTTCTAGCACTTGTTTTTTGGGATGATTAATAG
TCTCTATAATGTTCTGTAACCTCAATATTTTACTTGTTACCTAGGTTCTGAACAATTGTCTGCAATAAATTGTT

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FIGURE 1572B

CTTAAGGATGGATAATACACCCATTTTGATCATTTAAGTAAAGAAAGCCTAGTCATTTCATTTCAGTCAAGAAAAA
TTTTTGAAGTACCCAGTTACCTTACTTTTCTAGATTAAACAGGCTTAGTTACTAAAAAGGCAGTCCTCATCTGT
GAACAGGATAGTTTCGTTAGAAGTATAAACTCCTTTAGTGGCCCCAGTTAAACACACATACCCTCTCTGCTGC
TTTCAAATTCCTTAGCATGGTGGCCTTTCAACATTGATTAAATTTTAAATCCTAATTTAAAGATCAGGTGAGCA
AAATGAGTAGCACATCAGTAATTCAGTAGACAAAACCTTTGTCTGAAAAATTGCTGTATTGAAACAGAGCCCTAA
AATACCAAAAGACCAGGTAATTTAACATTTGTGGAATCACAAATGTAAATTCATAAGAAGCTCTAATTAAGAAA
AAAAAGTCTGAAGTATATGAGCATAACAACCTTAGGAGTGTGTCTACATACTTAACTTTTGAAGTTTTTGGCAAC
TTTATATACTTTTTTTTAAATTTACAAGTCTACTTAAAGACTTCTTATACCCCAAATGATTAAAGTTAATTTTAGAG
GTCACCTTTCTCACAGCAGTGTCACTTGAAATTTAGTAGGGAAGGATATTGCAGTATTTTCAGTTTCCTTAGCA
CAGCACACAGAAAGCAGCTTATTCCTTTTGTAGTGGCAGACACTCGACGGTGCCTGCCAACCTTCCTCCTGAGT
GGCAAGCAGATGAGTCTCAGTAATTCATACTGAACCAAAATGCCACATACACTAGGGGCGAGTCAGAACTGGCTG
AGAAATCCCCCGCTCATTGCCCCCTCTGCTCCCAGGAAGTAGAGTCCAGTTAAAGCCCCATGCGAAAGGCCGA
ATTCCACCCAGGGTTTGTATAACAGTGGCCAGTCTGAACCCCATTTGCTCGTGTCTCAAACCTTGATTCCCACT
TGAAAGCCTTCGGGGCGCGCTGCCTCGTTGCCCGCCCCCTTTGGCAGGAGAGAGGCAGTGGGCGAGGCCGGGCTG
GGGCCCCGCTCCCACTCACCTGCCGGTGCCTGAAATTATGTGCGGCCCGCGGGCTGCTTCCGAGGTTCAGAGT
GCCCTGCTGCTGTCTCAGAGGCATCTGTTCTGCAAACTTAGGAAGAAAAATGTCCCTAGTAGCAAACGGGTGTC
TTCTGTGCATAAATAAGTACAACACAATTCTCCGAAAGTTCGGGTAAAGAGATGCGGTAGCAGCTGCCCTGTG
TGAAGCTGTCTACCCCGCATCTCTCAGGCGCTAAGCTCAGTTTTGTTTTGTTTTGTTTTTAAAGAAAAGA
TGTATAATTGCAGGAATTTTTTTTTTATTTTTTATTTTCCATCATTCTATATATGTGATGGTGAAAGATATGCCT
GGAAAGTTTTGTTTTGAAAAGTTTATTTCTGCTTCGTCTCAGTTGGCAAAAGCTCTCAATTTCTTAGCTTC
AGTTTCTTTTCTCTCTTTTCTTTGTTAGGTAATTAAAGGTATGTAAACAAATTATCTCATGTAGCAGGGGATTT
TCATGTTGAGAGGAATCTTCCGTGTGAGTTGTTTGGTCACACAAATAACCCTTTCTCAATTTTAGGAGTTTGGAT
TGTCAAATGTAGGTTTTTCTCAAAGGGGGCATATACTACATATTGACTGCCAAGAACTATGACTGTAGCACTAA
TCAGCACACATAGAGCCACACAATTATTTAATTTCTAACTCTCTGTGGTCCCTAGAAAAATCCGTTGATGTGCT
TAGGTTAAAGTTCTGAAGATACCCGTTGTACCCTTACTTGAAAGTTTTCTAATCTTAAGTTTTATGAAATGCAATA
ATATGTATCAGCTAGCAATATTTCTGTGATCACCACAACTCTCAGTTTGATCTTAAAGTCTGAATAATAAACA
AATCCCAGCAGTAATACATTTCTTAAACCTCACAGTGCATGATATATCTTTTCATTCTGATCCTGTGTTTGCAAA
AATATACACATGTATATCATAGTTCCCTCACTTTTTATTCAATTTGTTTTCTTATTACCTGTAGTAAATATATTAGT
TAGTACATGGAATTTATAGCATCAGCTACCCCGAGGAACAGCACCTGACAGGCGGGGATTTTTTTTCAAGTTGT
TCTACATTTGCATAAATTATTTCTATTATTATTCATGTATGTTATTTATTTCTGAATCACACTAGTCCCTGTGAAA
GTACAACTGAAGGCAGAAAGTGTAGGATTTTGCATCTAATGTTTCATTATCATGGTATTGATGGACCTAAGAAAA
TAAAAATTAGACTAAGCCCCCAATAAGCTGCATGCATTTGTAACATGATTAGTAGATTTGAATATATAGATGTA
GTATTTTGGGTATCTAGGTGTTTTATCATTATGTAAAGGAATTAAAGTAAAGGACTTTGTAGTTGTTTTTATTAA
ATATGCATATAGTAGAGTGCAAAATATAGCAAAATAAAAACTAAAGGTAGAAAAGCATTTTAGATATGCCTTA
ATTTAGAACTGTGCCAGGTGGCCCTCGGAATAGATGCCAGGCAGAGACCAGTGCCTGGGTGGTGCCTCCTCTTG
TCTGCCCTCATGAAGAAGCTTCCCTCACGTGATGTAGTGCCCTCGTAGGTGTCATGTGGAGTAGTGGGAACAGGC
AGTACTGTTGAGAGGAGAGCAGTGTGAGAGTTTTTCTGTAGAAGCAGAACTGTCAGCTTGTGCCTTGAGGCTTCC
AGAACGTGTCAGATGGAGAAGTCCAAGTTTCCATGCTTCAGGCACTTAGCTGTGTACAGAAGCAATCCAGTGTG
GTAATAAAAAGCAAGGATTGCCTGTATAATTTATTATAAAATAAAAGGGATTTTAAACAACCAACAATCCCAACA
CCTCAAAGCTTGTTCATTTTTTGGTATTTGAGGTTTTTATCTGAAGGTTAAAGGGCAAGTGTGTTGGTATAGAA
GAGCAGTATGTGTTAAGAAAAGAAAAATATGGTTTCGCGTAGAGTGCAAAATTAGAACTAGAAAGTTTTATACGAT
TATCATTTTGAGATGTGTTAAAGTAGGTTTTCTACTGTAAATGTATTAGTGTCTGCTGATTGCCATAGGGCCTGG
TTAAACCTTTCTCTTAGGTTTCAGGAAGACTGTCACATACAGTAAGCTTTTTTCTTCTGACTTATAATAGAAAA
TGTTTTGAAAGTAAAAAATAAATCTAATTTGGAAATTTGACTTGTTAGTTTTCTGTGTTTGAAATCATGGTTC
TAGAAATGTAGAAATGTGTATATCAGATACTCATCTAGGCTGTGTGAACCAGCCCCAAGATGACCAACATCCCCA
CACCTCTACATCTCTGTCCCTGTATCTCTTCTTCTACCCTAAAGTGTTCCTGCTACCATCCTGGCTGTCTC
CATGGTGTCTCCATCTTCCCTCCACATCATGGACCACAGGTGTGCCTGTCTAGGCTGGCCACCACTCCCAAC
TTGACCTAGCCACATTCATCTAGAGATGGTTTCTGATGCTGGGCACAGACTGTGCTCATGGCACCCATTAGAAAT

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FIGURE 1572C

GCCTCTAGCATCTTTGTATGCATCTTGATTTTTTAAACCAAGTCATTGTACAGAGCATTTCAGTTTTGGCTGTGGTA
CCAAGAGAAAACTAATCAAGAATATAAACCACATTCCAGGCTGCTGTTTTCTCTCCATCTACAGGCCACACTTT
TACTGTATTTCTTCATACTTGAAATTCATTCTGCTATTTTCATATCAGGGTACAGACTTATAAGGGTGCATGTTT
CTTAAAGGTGCATAATTATTCTTATTCCGTTTGCTTATATTGCTACAGAATGCTCTGTTTTGGTGCTTTGAGTTC
TGCAGACCCCAAGAAGCAGTGTGGAAATTCAGTGCCTGGGACACAGTCTTATAAGAATGTTGGCAGGTGACTTTGT
ATCAGATGTTGCTTCTCTTTTCTCTGTACACAGATTGAGAGTTACCACAGTGGCCTGTCGGGTCCACCCTGTGGG
TGCAGCACAGCTCTCTGAAAGCAAGAACCTTCCTACCTATTCTAACGTTTTTGCCCTCTAAGAAAAATGGCCTCA
GGTATGGTATAGACATAGCAAGAGGGGAAGGGCTGTCTCACTCTAGCAACCATCCCTCCATTACACACAGAAAGC
CCTCTTGAAGCAAAAGAAGAAGAAAGAAAGAAAGCTTATCTCTAAGGCTACTGTCTTCAGAATGCTCTGAGCTGA
ATGCTCTTGCTCCTTTCCCAAGAGGCAGATGAAAATATAGCCAGTTTATCTATACCCTTCCTATCTGAGGAGGAG
AATAGAAAAGTAGGGTAAATATGTAACGTAAAATATGTCATTCAAGGACCACCAAACTTTAAGTACCCTATCAT
TAAAAATCTGGTTTTTAAAGTAGCTCAAGTAAGGGATGCTTTGTGACCCAGGGTTTCTGAAGTCAGATAGCCATT
CTTACCTGCCCCTTACTCTGACTTATTGGGAAAGGGAGAACTGCAGTGGTGTTCGTGTCAGTGGCAAAGGTAA
CATGTCAGAAAATTCAGAGGGTTGCATACCAATAATCCTTTGGAAACTGGATGTCTTACTGGGTGCTAGAATGAA
AATGTAGGTATTTATTGTGATGATGAAGTTCATTGTTTTTTTCAAATTTGGTGTGAAATATCACTGTCCAAT
GTGTTCACTTATGTGAAAGCTAAATTGAATGAGGCAAAAAGAGCAAATAGTTTGTATATTTGTAATACCTTTTGT
ATTTCTTACAATAAAAATATTGGTAGCAAATAAAAATAATAAAAACAATAACTTTAACTGCTTTCTGGAGATGA
ATTACTCTCCTGGCTATTTTCTTTTTTACTTTAATGTAAAATGAGTATAACTGTAGTGAGTAAAATTCATTAAAT
TCCAAGTTTATAGCAGAAAAA

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FIGURE 1573

PYKWFSAQLALVTRGHRKYLLESLATCAF

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FIGURE 1574

GCTCGCCGGTCCTCGGCACGCCGCCCGTTTCGCCCCCTGCGCTGTCCGCCCTTCCCCTAGCGTTACTTCCGGTCCCT
CGCTGAGGGGGTTCGTGCGGCTCCCAGGAGGCGTGAACCGCGGACCATGAGCGTGGGCTTCATCGGGGCCGGCCA
GCTGGCCTATGCTCTGGCGCGGGGCTTCACGGCCGAGGCATCCTGTGGCTCACAAAGATAATAGCCAGCTCCCC
AGAAATGAACCTGCCCCACGGTGTCCGCGCTCAGGAAGATGGGTGTGAACCTGACACGCAGCAACAAGGAGACGGT
GAAGCACAGCGACGTCCTGTTTCTGGCTGTGAAGCCACATATCATCCCCCTTCATCCTGGATGAGATTGGGGCCGA
CGTGCAAGCCAGACACATCGTGGTCTCCTGTGCGGCTGGTGTACCATCAGCTCTGTGGAGAAGAAGCTGATGGC
ATTCCAGCCAGCCCCCAAAGTGATTGCTGCATGACCAACACACCTGTGGTAGTGACAGGAAGGCGCTACAGTGTA
CGCCACGGGCACCCATGCCCTGGTGGAGGATGGGCAGCTCCTGGAGCAGCTCATGAGCAGCGTGGGCTTCTGCAC
TGAGGTGGAAGAGGACCTCATCGATGCCGTCACGGGGCTCAGTGGCAGCGGGCCTGCCTATGCATTTCATGGCTCT
GGACGCATTGGCTGATGGTGGGGTGAAGATGGGTTTGCCACGGCGCCTGGCAATCCAACCTCGGGGCCAGGCTTT
GCTGGGAGCTGCCAAGATGCTGCTGGACTCGGAGCAGCATCCATGCCAGCTTAAGGACAATGTCTGCTCCCCCTGG
GGGAGCCACCATCCACGCCCTGCACTTTCTAGAGAGTGGGGGCTTCCGCTCTCTGCTCATCAATGCAGTTGAGGC
CTCCTGTATCCGAACACGAGAGCTACAGTCCATGGCCGACCAAGAAAAGATCTCCCCAGCTGCCCTTAAGAAGAC
CCTCTTAGACAGAGTGAAGCTGGAATCCCCCAGTCTCCACACTGACCCCTCCAGCCCAGGGAAGCTCCTCAC
AAGAAGCCTGGCCCTGGGAGGCAAGAAGGACTTAAGGCAGCATCTGTCCCCTCTGTGATTGAGAGCCCTTAGTTGA
GAGCCCCTGCCGCCCTGCCACCCCCCTGCCCGCTCCCACCATTGCCCTCCTCAGCTGTGCAAGGAGAAAGCA
TGCTTAGGAAGTTTTAGGTCTTGTGATAAAACCTCCTTAAATCTGTTAGACCAAGCAATGCGAGCTTCCTCT
CCTGTCCCATGTTGGAAGTTGCTCTGAAGGGTGGTAGATGCTGGAAGCCAGACACAACCTGCGTACGCTGCTC
AGTTGGTGGAGACTGGGGCTGGGACTGGAGTCAGCCCAGCTGGGAGGAGGGGCTGGGGAGGATCTGCAGCTGAAG
CCCGAGGCAGGGTTGGTGTGATGCCAAGGCAAAGTGGTGAGGAGAAAACAGGAAACGGGCTTCTCTGAATTGGT
AAATGGGAAAGAAGTGAGCAACTTAAGATTGTCACAATTAATCACAAGTGTACAGGATTAGACTGGGTTTATATT
TAACTCTTGCTTCATAGGTGTACCATTTAAAGAGTGTTATTTAATGCTAAGTTTAACTGCTTTAATAAAGTTTAT
TTTTAAATATCAAAAAAAAAAAAAAA

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FIGURE 1575

MSVGFIGAGQLAYALARGFTAAGILSAHKIIASSPEMNLP TVSALRKMGVNLTRSNKETVKHSDVLF LAVKPHII
PFILDEIGADVQARHIVVSCAAGVTISSVEKKLMAFQPA PKVIRCMTNTPVVVQEGATVYATGTHALVEDGQ LLE
QLMSSVGFC TEVEEDLIDAVTGLSGSGPAYAFMALDALADGGVKMGLPRRLAIQLGAQALLGA AKMLLDSEQHPC
QLKDNVCSPGGATIHALHFLESGGFRSLLINAVEASCIRTRELQSMADQEKISPAALKKTL LDRVKLESPTVSTL
TPSSPGKLLTRSLALGGKKD

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FIGURE 1576

GGAGTTGCGCGGGCTGACGCGCCACTATGTAGCGGGTTTCGGGCGGGCCACGCGTGCGGGACAGGAACCCAACCC
CAGCCGACCTTGAGCTCCAGGAGTTCGTCTCTTACGTCTGCGGAAGTGCAGCTGCCTCAGTTCTTAGCGCAGGTT
GACAACTACAGGCACAAGCCATTGAAGCTGGAATGTCCTGTTGCTGGTATTTCAATTGACTTAAGCCAACCTATCC
CTTCAGTTACAATAGGAAAGTGCCTCTAATAAGGCCAAATATGCGTACTAACTTGTAGCAACCACGTGTCCGTGC
AGTGCCACAGGAGCTAGAGCAGTGACAATGCTGGTGGCAACAGGGCAGTGTAGCAGGTGCTTCATGTTACCTTT
TCAACCTTTTCATTTAATTGTCACAACCTCGGAGGTGGATTCTGTTAGGGACAGGCTGCCCCAGGACCACTCCGCC
CCCGCTAACTCAATGCAGCTGACCCCTTACCCTGAATACTCTGCAGCTGCATTCTGAACCGTTATCTAGGCGCTA
TAGCAAGGTCACCAGACTTGCTACACCGAAGCCCTCTGGGTGGCACGGGGGAGGTCATGAGAAACGTGGATTACA
CCCCCTTGTAATTCCTATTTTCACAAGATAATATATTGTAAGCCGGTCATGAGATTATATGTGGTAAAGTTAAT
TGACTAACAACCCCAAGGTCTCTCTCCCCCATATAAACCCCTCATTTTGTAAGCTCAGGGCTGCCACCTCCGACT
GGTGGAGAAGCCTGGCAGGTTAATAAACTTACTTGGCCTGAC

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FIGURE 1577

GGGGCGGAGAGAGGCGAGCACCGGGAAGGGGAGCGTGGGGCCGCTGGAAATGGGTGAATTTAAGGTCCATCGAGTA
CGTTTCTTTAATTATGTTCCATCAGGAATCCGCTGTGTGGCTTACAATAACCAGTCAAACAGATTGGCTGTTTCA
CGAACAGATGGCACTGTGGAAATTTATAACTTGTCTAGCAAACTACTTTTCCAGGAGAAATTTTCCAGGTCATGAG
TCTCGGGCTACAGAAGCTTTGTGCTGGGCAGAAAGGACAGCGACTCTTTAGTGCTGGGCTCAATGGCGAGATTATG
GAGTATGATTTACAGGCGTTAAACATCAAGTATGCTATGGATGCCTTTGGAGGACCTATTTGGAGCATGGCTGCC
AGCCCCAGTGGCTCTCAACTTTTGGTTGGTTGTGAAGATGGATCTGTGAACTATTTCAAATTACCCCAGACAAA
ATCCAGTTTGAAAGAAATTTTGATCGGCAGAAAAGTCGCATCCTGAGTCTCAGCTGGCATCCCTCTGGTACCCAC
ATTGCAGCTGGTTCCATAGACTACATTAGTGTGTTTGTGTCAAATCAGGCAGCGCTGTTTATAAGATGATTGTG
GACAGGCAGTATATGGGCGTGTCTAAGCGGAAGTGCATCGTGTGGGGTGTGCGCTTCTTGTCCGATGGCACTATC
ATAAGTGTGGACTCTGCTGGGAAGGTGCAGTTCTGGGACTCAGCCACTGGGACGCTTGTGAAGAGCCATCTCATC
GCTAATGCTGACGTGCAGTCCATTGCTGTAGCTGACCAAGAAGACAGTTTCGTGGTGGGCACAGCCGAGGGAACA
GTCTTCCATTTTTCAGCTGGTCCCTGTGACATCTAACAGCAGTGAGAAGCAGTGGGTGCGGACAAAACCGTTCCAG
CATCACACTCATGACATGCGCACTGTGGCCACAGCCCAACAGCGCTGATATCTGGAGGCACTGACACCCACTTA
GTCTTTCGTCTCTCATGGAGAAGGTGGAAGTAAAGAATTACGATGCCGCTCTCCGAAAAATCACCTTTCCCCAC
CGATGTCTCATCTCCTGTTCTAAAAAGAGGCAGCTTCTCCTCTTCCAGTTTGCTCATCACTTAGAAGTTTGGCGA
CTGGGATCCACAGTTGCAACAGGCAAGAATGGGGATACTCTTCCACTCTCTAAAAATGCAGATCATTTACTGCAC
CTAAAGACAAAGGGTCCCTGAGAACATTATCTGTAGCTGTATCTCCCCATGTGGAAGTTGGATAGCCTATTCTACA
GTTTCTCGGTTTTTTTCTCTATCGGCTGAATTATGAACATGACAACATAAGCCTCAAAGGGTTTTCAAATGCCA
GCATTCTTTCGCTCTGCCCTTTCAGATTTTGTCTTCTGAAGATTCAACAAAGCTCTTTGTAGCATCAAATCAAGGA
GCTCTGCATATTGTTTCAGCTGTCTAGGAGGAAGCTTCAAGCACCTGCATGCTTTCCAGCCTCAGTCAGGAACAGTG
GAGGCCATGTGTCTTTTGGCAGTCAGTCCAGATGGGAATTGGCTAGCTGCATCAGGTACCAGTGCTGGAGTCCAT
GTCTACAACGTAAAACAGCTAAAGCTTCACTGCACGGTGCCTGCTTACAATTTCCAGTGACTGCTATGGCTATT
GCCCCAATACCAACAACCTTGTCTATCGCTCATTCCGACCAGCAGGTATTTGAGTACAGCATCCCAGACAAACAG
TATACAGATTGGAGCCGGACTGTCCAGAAGCAGGGCTTTACCACCTTTGGCTCCAAAGGGATACTCCTATCACA
CACATCAGTTTTTCATCCCAAGAGACCGATGCACATCCTTCTCCATGATGCCTACATGTTCTGCATCATTGACAAG
TCATTGCCCCCTTCAAATGACAAAACCTTACTCTACAATCCATTTCTCCACGAATGAATCAGATGTCATCCGG
AGGCGCACAGCTCATGCTTTTAAATTTCTAAGATATATAAGCCTCTACTCTTTCATGGATCTTTTGGATGAAAGA
ACACTCGTGGCAGTAGAACGGCTCTGGATGACATCATTGCTCAGCTCCCAACCCATTAAAAAGAAGAAATTT
GGAACCTAAACAGGGCACTGTCTGTGTCCTTCTTGAAGTGTCTACCTGTTGCTTTTCAAAATCATGGTAAT
AAAAACAAGTTATTCTTG

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FIGURE 1578

MGEFKVHRVRFFNYVPSGIRCVAYNNQSNRLAVSRTDGTVEIYNLSANYFQEKFFPGHESRATEALCWAEGQRLF
SAGLNGEIMEYDLQALNIKYAMDAFGGPIWSMAASPSGSQLLVGCEGDSVKLFQITPDKIQFERNFDRQKSRILS
LSWHPSGTHIAAGSIDYISVFDVKSGSAVHKMIVDRQYMGVSKRKCIWGVAFVLSDGTIISVDSAGKVQFWDSAT
GTLVKSHLIANADVQSIADQEDSFVVGTAEGTVFHFQLVPVTSNSSEKQWVRTKPFQHHTHDMRTVAHSPTAL
ISGGTDTHLVFRPLMEKVEVKNYDAALRKITFPHRCLISCSKKRQLLLFQFAHHLELWRLGSTVATGKNGDTLPL
SKNADHLLHLKTKGPENIICSCISPCGSWIAYSTVSRFFLYRLNYEHDNISLKRVS KMPAFLRSALQILFSEDST
KLFVASNQGALHIVQLSGGSFKHLHAFQPQSGTVEAMCLLAVSPDGNWLAASGTSAGVHVYNVKQLKLHCTVPAY
NFPVTAMAIAPNTNNLVIAHSDQQVFEYSIPDKQYTDWSRTVQKQGFHHLWLQRDTPITHISFHPKRPMHILLHD
AYMFCIIDKSLPLPNDKTLLYNPFPPTNESDVIRRRTAHAFKISKIYKPLLFMDLLDERTLVAVERPLDDIIAQL
PPPIKKKKFGT

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FIGURE 1579

GCGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGGTTGGCGACGCCGCCCCGCCGGGCCCC
AGATCAGGCCGCAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGCTCAGAGGG
TCCCAGCTATGCCAAAAAAGTTGCGCTCTGGCTTGCTGGGCTGCTTGGAGCTGGTGGGACTGTGAGCGTCGTCTA
TATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGATGAGTTGACAAATGATCCAATTCTGGT
CAGTTTGGCGCCGGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCACCAGCCCTTGCCT
CAGACCCTCTGCAGGAACCGTACTACCAGCCACCCTACACGCTCGTTTTTGGAGCTCACCGGCGTCCTCTT
CTGTGAGTGGTCGCTGGCCACTGGCTGGAGGTTTAAGAAGCGCCCAGGCATCGAGACCTTGTTCCAGCAGCT
TGGCCCTTTATATGAAATTGTCATCTTTACGTCAGAGACTGGCATGACTGCGTTTCCACTCATTGATAGTGTGGA
CATGGCTTCATCTCCTACCGCCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATAT
AGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTA
GCGGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTGGATCTGTCTGCCTTCCTCAA
ATTGCACTGAATGGTGTGGAGGACGTGCGAACCGTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGC
TTTCAAACAGCGGCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAA
AGAACCTCTTCCTTGGCTCCCTACCAGCCGCTTGTGGCCTCGCTCCAAACAGCCCTGAACTCTGGGCCTCCT
CAAACCTCAGTGCCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTCCAATAAAGTAC
ATCCCAGACGCCACAAAAA

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FIGURE 1580

TCATCATCCAGAGCAGCCAGTGTCCGGGAGGCAGAAGATGCCCCACTCCAGCCTGCATCCATCCATCCCGTGTCC
CAGGGGTCACGGGGCCCAGAAGGCAGCCTTGTTCTGCTGAGTGCCTGCCTGGTGACCCCTTGGGGGCTAGGAGA
GCCACCAGAGCACACTCTCCGGTACCTGGTCCTCCACCTAGCCTCCCTGCAGCTGGGACTGCTGTTAAACGGGGT
CTGCAGCCTGGCTGAGGAGCTGCGCCACATCCACTCCAGGTACCGGGGCAGCTACTGGAGGACTGTGCGGGCCTG
CCTGGGCTGCCCCCTCCGCCGTGGGGCCCTGTTGCTGCTGTCCATCTATTTCTACTACTCCCTCCCAAATGCGGT
CGGCCCCGCCCTTCACTTGATGCTTGCCCTCCTGGGCCTCTCGCAGGCACTGAACATCCTCCTGGGCCTCAAGGG
CCTGGCCCCAGCTGAGATCTCTGCAGTGTGTGAAAAAGGGAATTTCAACGTGGCCCATGGGCTGGCATGGTCATA
TTACATCGGATATCTGCGGCTGATCCTGCCAGAGCTCCAGGCCCGGATTGGAACCTACAATCAGCATTACAACAA
CCTGCTACGGGGTGCACTGAGCCAGCGGCTGTATATTCTCCTCCCATTTGACTGTGGGGTGCTGATAACCTGAG
TATGGCTGACCCCAACATTCGCTTCTTGATAAACTGCCCCAGCAGACCGGTGACCGTGCTGGCATCAAGGATCG
GGTTTACAGCAACAGCATCTATGAGCTTCTGGAGAACGGGCAGCGGGCGGGCACCTGTGTCTGGAGTACGCCAC
CCCCTTGACAGACTTTGTTTGCCATGTCAATAACAGTCAAGCTGGCTTTAGCCGGGAGGATAGGCTTGAGCAGGC
CAAACCTTTCTGCCGGACACTTGAGGACATCCTGGCAGATGCCCCTGAGTCTCAGAACAAC TGCCGCCTCATTGC
CTACCAGGAACCTGCAGATGACAGCAGCTTCTCGCTGTCCCAGGAGGTTCTCCGGCACCTGCGGCAGGAGGAAAA
GGAAGAGGTTACCGTGGGCAGCTTGAAGACCTCAGCGGTGCCAGTACCTCCACGATGTCCAAGAGCCTGAGCT
CCTCCTCAGTGAATGGGAAAGCCCCCTCCCTCTCCGCACGGATTCTCTTGAGACCCAGGGTCACCAGGCCAGAG
CCTCCAGTGGTCTCCAAGCCTCTGGACTGGGGGCTCTCTTCACTGGCTGAATGTCCAGCAGAGCTATTTCTTCC
ACAGGGGGCCTTGACAGGAAGGGTCCAGGACTTGACATCTTAAGATGCGTCTTGTCCCTTGGGCCAGTCATTTC
CCCTCTCTGAGCCTCGGTGTCTTCAACCTGTGAAATGGGATCATAATCACTGCCTTACCTCCCTCACGGTTGTTG
TGAGGACTGAGTGTGTGGAAGTTTTTCATAAACCTTGATGCTAGTGTACTTAAAAAAAAAAAAA

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FIGURE 1581

MPHSSLHPSIPCPRGHGAQKAALVLLSACLVTWGLGEPPEHTLRYLVLHLASLQLGLLNGVCSLAEELRHIHS
RYRGSYWRTVRACLGCP LRRGALLLSIYFYSLPNAVGPFTWMLALLGLSQALNILLGLKGLAPAEISAVCEK
GNFNVAHGLAWSYYIGYLRILPELQARIRTYNQHYNNLLRGAVSQRLYILLPLDCGVDPNLSMADPNIRFLDKL
PQQTGDRAGIKDRVYSNSIYELLENGQRAGTCVLEYATPLQTLFAMSQYSQAGFSREDRLAQAKLFCRTLEDILA
DAPESQNNCRLIAYQEPADDSSFSLSQEVLRLRQEEKEEVTVGSLKTSAVPSTSTMSQEPELLLSGMGKPLPLR
TDFS

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FIGURE 1582A

AACCATAGAACATGGGAATAGGTTTTATTTTCATCTCAAGAACATTAAAGTTGGGTGAAGAAATTCAGCTTTTGT
TGTTAGAATCTGACAGGCTTCAAACACTTGTGATGGAGGGTTGTTGTCATATCAAAGTCCACCTAGTAAAGTTT
TAGGTGACCAGTGACTTTGTCAATTAGGTCTGCTGGTCCCTGGCCCAATCCCTAGGACAGTTTGAGAGCCTGGTGC
AATCTGAGTACGTCCAGCATCTTGAATTAACTTACAGTCAGTCCCAGCATTTTTGCATGGGCCAATAATGCAAT
CAGGGTTTTCTTCATCAGGAGCTTTGACCACCACCTTGGGCTGGCCACAGTATTCCTATTGTTTGAGCATTTCAGG
ATTTCTTCTTTGAATCTGCTTGTAGGCTGAAACAGCAGCATGAGAGCACTGGGCAGCCACTTTCCCTTTTCCCAT
CTTTAAGTCATTTTGAACCACAAGAATCATCTTGTACTCCCCGCTGTCTCCCAAGATGCTTGCTTCACTTTTCAGT
ATCTGTGTGTGCTTGTCTCGTCTTGTCTTTGGGGAGCATCCCAAAGCATACTCGAAGGCTCCAGCCCCAGGCACA
TGCCACAAGCAACTCCAACAGCCAAGCCGAGTGTACTGGGATGAGCCAAATATTCCATAACCAAGGATTGGAGG
GCATCTACAGTACCTCCTTTCTCACTCGCGCCTTCCCTTCTTCTGGGCAGCGAACACGTTTCTATCGCGTGAGC
TACCTCTTCCGGGGTTCTGGGTGACAAGTTCGGGATCAAGAATCACAAAGCGAGCAGTCATTCTTCTCTTGCC
ACACCCACAGGGCCCGCACTAAGAGCCTAACTGAAATCCCGCGAGGATCAACCGAGCTCGCCGAAAGGAGGGAGG
AACGTATCCCTTCTGGAGGCTGTCTCAGGGGGCAGAGGGACCGGACCGGAAGTGACGTGAGCGGGTCCGGTTGT
CTGGAGCCCAGCGGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCGGGGT
CGGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGGCAGAGAATGGAAAAAATTGTGACCAGAGACGTGTAGC
AATGAACAAGGAACATCATAATGGAAATTTACAGACCCCTCTTCAGTGAATGAAAAGAAGAGGAGGGAGCGGGA
AGAAAGGCAGAATATTGTCTGTGGAGACAGCCGCTCATTACCTTGCAGTATTTTTCTCTGGAAATCCTTGTAAT
CTTGAAGGAATGGACCTCAAAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTGCTTGTGTGCT
TATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTTGTATGC
CTACTGGATAGGCTTAGGAATTTTGTCTTCTGTTGGGCTTGGAAACAGGGCTGCACACCTTTCTGCTTTATCTGGG
TCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTCCCGAACCACCCTATCCTGA
TCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACCATTTCTTTGTGGAGTATCATCTCAAAGTTAGGAT
TGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTTCATGGCCAGAGCAGCTCGCCT
CTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCACAAGA
CTTTGCCTCCCGGGCCAACTGGCAGTTCAAAAACCTAGTACAGAAAGTTGGATTTTTTGGAAATTTTGGCCTGTGC
TTCAATTTCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTTTGGACCTTCTT
TGGTGCAACCCTAATTGGAAAAGCAATAATAAAATGCATATCCAGAAAATTTTTGTTATAATAACATTACAGCAA
GCACATAGTGGAGCAAATGGTGGCTTTTATTGGTGTGTCTCCCGGCATAGGTCCATCTCTGCAGAAGCCATTTCA
GGAGTACCTGGAGGCTCAACGGCAGAAGCTTCACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAACCTGGTT
GTCCTGGATGTTTTGAAAAGTTGGTGTGTGTATGTTGTTACTTTCATCCTATCTATCATTAACTCCATGGCACA
AAGTTATGCCAAACGAATCCAGCAGCGGTTGAACTCAGAGGAGAAAACCTAAATTAAGTAGAGAAAGTTTTAAACTG
CAGAAATTGGAGTGGATGGGTTCTGCCTTAAATTGGGAGGACTCCAAGCCGGGAAGGAAAATTTCCCTTTTCCAAC
CTGTATCAATTTTTACAACTTTTTCTGAAAGCAGTTTAGTCCATACTTTGCACTGACATACTTTTTCTTCTG
TGCTAAGGTAAGGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGGAAATGTGATGTTTACAGCAGCA
AACTTGCAACAGACTGGCCTTCTGTTTGTACTTTCAAAGGCCACATGATACAATTAGAGAATTTCCACCGCA
CAAAAAAAGTTCTAAGTATGTTAAATATGTCAAGCTTTTTTAGGCTTGTACAAAATGATTGCTTTGTTTTCTTAA
GTCATCAAAATGTATATAAATTATCTAGATTGGATAACAGTCTTGCATGTTTATCATGTTACAATTTAATATTCC
ATCCTGCCCCAACCTTCTCTCCCATCCTCAAAAAGGGCCATTTTATGATGCATTGCACACCTCTGGGGAAAT
TGATCTTTAAATTTTGGAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTTTTATT
CTGTGTATTTAGAATGAAGTCTTGAAAAAAATTTATAAAGACATCTTTAATCATTCCAAAATTTGTGTCCGTTTT
CTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCTAATCCACCTACAACAAGA
ATTTCTTAAGCTTTCTTTTATTTGCATGAGAGAGCCACTACCAAGGCATGTTTTGTTATGCTGAAACTGGGCTGC
TGCATACTGCTAAATGGCACCTCTGGGATTGGCCTACCTGGGGATTTCTTGGTTTGTGAAAACAGGAGAGGAGAA
ATATCTCATACAAGTGAAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAACCACACTCTGTCGTATC
TGTGTTAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCAGTTTTCTTGCCGT
TCTGTAAGTGTTTTTATTCTTAGTGTGATTTTTTCCATTGGGATGTTTTTGAATTGAACTTGTTCAATTTGTTTTG
CTTGGGAGGAAAATAACAATTTTACTTTTTTCTTTTAGGAGCATTATGAGCATTATGTCAGAATAGAATAGAAT
TGGGGTTCGATCTTAACAGGCCAGAAATGCCTGGGTTTTTTGGTTTGTTTTTGTTTTTATCAAATC

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FIGURE 1582B

CTGCCTGACTGTCTGCTTGTGTTTTGCCTACCATCGTGACATCTCCATGGCTGTACCACCTTGTCGGGTAGCTTATC
AGACTGATGTTGACTGTTGAATCTCATGGCAACACCAGTCGATGGGCTGTCTGACATTTTGGTATCTTTCATCTG
ACCATCCATATCCAATGTTCTCATTAAACATTACCCAGCATCATTGTTTATAATCAGAAACTCTGGTCCTTCTG
TCTGGTGGCACTTAGAGTCTTTGTGCCATAATGCAGCAGTATGGAGGGAGGATTTTATGGAGAAATGGGGATAG
TCTTCATGACCACAAATAAATAAAGGAAAATAAGCTGCATTGTGGGTTTTGAAAAGGTTATTATACTTCTTAAC
AATTCTTTTTTTCAGGGACTTTTCTAGCTGTATGACTGTTACTTGACCTTCTTTGAAAAGCATTCCCAAAATGCT
CTATTTTAGATAGATTAAACATTAAACCAACATAATTTTTTTTAGATCGAGTCAGCATAAATTTCTAAGTCAGCCTC
TAGTCGTGGTTCATCTCTTTCACCTGCATTTTATTTGGTGTGTTGTCTGAAGAAAGGAAAGAGGAAAGCAAATACG
AATTGTACTATTTGTACCAAATCTTTGGGATTCATTGGCAAATAATTTCAAGTGTGGTGTATTATTAAATAGAAAA
AAAAAATTTTGTTCCTAGGTTGAAGGTCTAATTGATACGTTTGACTTATGATGACCATTTATGCACTTTCAAAT
GAATTTGCTTTCAAATAAATGAAGAGCAGCTGTCCTTCTTTCTCTTTTAAGTGTTCAGCTGTGGCATGCTCAG
AGGTTCCCTGCTGGATTCCAGCTGGAGCGGTGTGATACCCTTCTTTTTCAGCTGTTTCGTGCCTTCTTTCTTGAT
CCACCAAAGTGGAGACAAATACATGATCTCAAAGATACACAGTACCTACTTAATTCCAGCTGATGGGAGACCAA
GAATTTGCAAGTGGATGGTTTGGTATCACTGTAAATAAAAAGAGGGCCTGGGAATTCTTGCGATTCCATCTCTAC
TTTGATAAGTCTCATTGTTGTGCTTACACATCTGCAGTATTTATCATGTTCCAACCTGGTGACTGTCAGGCAGT
GCAATACATCAGCAGTTTATCACCGAAGAGCTGAGGAATACCTCCCTTAAAACAGACAATGTC

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FIGURE 1583

MAENGKNCDQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIVVSFLLLLAVLIATYYVEGVHQQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPFIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMAAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLVQKVGGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIK
MHIQKIFVITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPOGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQORLNSEKTK

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FIGURE 1584A

TGCAACGGAACTTTTAGCTCCACGAACAGAAAAGCAAGAGCAAAAACCTCAGTTAAATGCGTTCTTCTCCATCT
TTGCCTAGTCCAAAAGGAAAAAAGAAACAGAAAAAAGAAAACTGTTTGGAAAGAGTAGCGTTGAGG
TTTGCTTTTTTACCTGTTTTTCTCTAGAACAGCCAGGTGGATTACATGATCCAATTTTTTAATTGTCTTCTATG
TCCCACTCCGAATAACCCGGATGCCCCAGCACAATCAGAGAGATCGTTTTTTTTTAAAAAAATTTTCAGCCTCCAA
AGGAGGGGAGTGTTAGGGGAGAAAGTACTTTAATTAATAAATCAATAACTCGAGGTTTTTGGGATACGGTTT
TTCTTAATTAAGAAATGGGTTTGACAGTCCCTTTGTACACACTGCTATGCAAACCCCAAAGGGTTGGCGG
TTGGGCGATGACACTCCGGTCCCCTGCGAGACCCGGGCCAGCCAGGCCCTCCGCCGCCGCTCTGGGG
TGGTCCCCCGGAAGCAAGGCTCGCGCAGACCTCTCGCTTCTCTCGGCTCTGTCTCTCTGCGCTCTGCTCGG
GGCCGCTCAGGCTCGCGCCACCAGGTGCTTGCAAATACCTTTTCCCTCCCCGGGGCCCCAGCGCGCGG
TCCAGCCTCCCCCCTCCACCCCTGGCAGCGGGGCCCTTTCCCGGCTCAGGAACAGCAGCAGCCGGGCC
GGCAGGAAGCGAGGCCCATGTTGCTGCTGTTCCCTGGCGCGCTCCCCGCCCTCCGGGGGCCGCCACGGC
TCGCGCTCCCGGGCACCCCCCTCCGCGCTGCGCTGTGCCCCACGGGGGCCGGGGCTCAGATTCTGTCTCAGC
GGCGGGCGGTGGCGGCGACCGTCAGTTTTCTGCTGAGGAGAAACAGAAACGGACCTTTGGCTCTCCCCCTTC
TCCCCGTCTGAACCCCTCTCTGGTCAACGAGAATCAGTCCCCGTGGAGTTCCCCCTCCACCTCGCCATC
GTTCCTCGGTCTCTCGGCCAGTGGAAGTCACTACCTCGAGGAGGAGGCAGCGGCAGCCGCCCTCGCGTCCGCG
CCCCCGTTCCGTGCGCGCGGTCCCGGAGAGGAGGTGCCGCCGCCACCGCGCTCCCCCCTCCCGCTGCCCTCG
GGCGGGCTGGGTGAGCTGCGATGCCCTCGGACTTCATCTCATTTGCTCAGCGCGGACCTAGACCTGGAATCGCC
CAAGTCCCTCTACTCGCGAGATTCTCTGAAGTTACACCCATCACAAGATTTTCATAGAGCTGGACTATTGGAAGA
ATCTGTCTATGATCTTCTCCAAAGGAGTTACAGTTACCTCCATCTAGAGAAACATCTGTAGCATCAATGAGTCA
GACAAGCGGTGGTGAGGCAGGCTCGCTCCTCCAGCTGTTGTTGCTGCTGGATTTGCCTCTGAAGCAGGGAGTGT
CTGCATTAAAAATGACCTGTAGTTCTCTGCTTCATAGATGCTTCTTCAGCTCCCTCCTCTTCTCTCCATGGCGGT
GCTTGACGCTCCTTTACCACCTCTTCCAGCCCTACCATTTATTCTACCTCAGTCACCGACAGCAAGGCTATGCAA
GTGGAGAGCTGCTCCTCAGCCGTGGGGTAAGTAACAGAGGGGTAAGTGAAAAGCAGTTAACAGTAACACAGTT
CAGCAGCATCCATCAACACCGAAGAGGCACACAGTCTTGATATCTCACCACCACCTGAGGACTTGCTGGATAAC
AGTCGGATGTCTGCCAGGATGAGGGGTGTGGATTGGAATCTGAGCAGAGCTGCAGTATGTGGATGGAGGATTCC
CCCTCCAACCTCAGTAACATGAGCACCAGTTCTTACAATGATAACACTGAGGTACCTCGTAAATCACGAAAACGA
AATCCAAGCAGAGGCCGGGGGTCAAACGACGAGATTGTGAAGAATCTAATATGGATATATTTGATGCCGACAGT
GCCAAAGCACCTCACTATGTGCTTTCTCAGCTTACCACGGACAACAAAGGCAACTCAAAGCGGGAAATGGAACA
TTGGAAAACCAAAAGGAAGTGGAGTAAAGAAGAGCCCTATGTTGTGTGGACAATATCCTGTTAAAAGTGAGGGA
AAGGAGCTGAAGATAGTTGTACAACCTGAGACACAGCACCAGCTCGGTACCTGACTGAGGGCAGCCGTGGCTCA
GTGAAAGATAGAACACAGCAAGGCTTTCTACAGTAAAGCTGGAAGGCCATAATGAACCTGTAGTGTGCAAGTG
TTTGTGGGCAACGACTCTGGACGAGTGAAACCACATGGATTTTATCAGGCCTGCAGAGTAAGTGGACGAAATACA
ACTCCTTGCAAAGAAGTGGACATTGAAGGCACTACTGTTATAGAAGTCGGCCTTGATCCTAGCAACAACATGACA
CTGGCGGTGGACTGCGTAGGGATATTGAAATTGAGGAATGCTGATGTGGAAGCCAGAATAGGAATTGCTGGTTCC
AAGAAGAAAAGCACTCGTGCCAGATTGGTTTTTTCGAGTTAATATCATGAGGAAAGATGGCTCCACTTTGACACTG
CAAACACCCTCTTCTCCAATTTTGTGTACTCAGCCAGCAGGAGTGCCAGAAATCTTAAAGAAAAGCTTGCAATAGC
TGTTCACTGAAAGGAGAAGAAGAAGTGTTTTTTAATCGGCAAGAACTTTCTGAAAGGAACTAAAGTTATTTTCAA
GAAATGTTTCTGATGAAAACCTTTGGAAGTCAGAAGCTGAAATTGATATGGAACATTTTCATCAGAATCATCTT
ATTGTGAAGGTTTCTCCCTATCATGACCAACATATAACTTTGCCTGTGTGCTAGTGGGAATATATGTAGTGACAAAT
GCTGGAAGATCTCATGATGTTCAACCATTCACCTTACCTCCAGACCCAGCAGCAGCTGGTGCTTTGAATGTAAAT
GTGAAGAAGGAAATATCTAGTCCAGCAAGACCTTGCTCTTTTGAAGAGGCCATGAAAGCAATGAAAACACTGGA
TGTAATTTAGATAAGGTAAATATTATCCCTAATGCCCTGATGACTCCACTCATACCAAGCAGTATGATTAAGAGT
GAAGATGTTACTCCAATGGAGGTAACAGCAGAAAAAGATCTTCCACTATTTTTAAGACTACAAAGTCTGTTGGA
TCAACTCAGCAACATTAGAAAACATCTCAAACATAGCAGGAAATGGCTCTTTTTTCATCACCATCATCTTCCCAC
CTACCTTCTGAAAATGAAAACAGCAGCAGATTACGCCAAGGCATACAACCCAGAGACCCTGACAACATTCAA
ACCCAGGACATCTCAGACCTGGTACTTTTCCAGCAGTTTCTGCTTCTAGTCAGCTGCCCCAACAGCGATGCACTA
TTGAGCAGGCTACACAGTTTCAGACAAGAGAACTCAGTCTAGAGAGATATTACAGTCAGATGGTACAGTGGTT
AATTTGTCACAACTGACTGAGGCATCACAACAACAGCAGCAGTACCCTACAAGAACAAGCACAGACTTTACAG

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FIGURE 1584B

CAGCAGATTTTCATCAAATATTTTTCATCACCAAATAGTGTGAGTCAGCTTCAGAATACTATTTCAGCAGCTGCAA
GCAGGGAGTTTCACAGGCAGTACTGCTAGTGGCAGCAGTGGAAGTGTTGACTTGGTCCAACAAGTTTTAGAGGCA
CAGCAGCAGTTATCTTCAGTTTTATTTTCTGCTCCAGATGGTAATGAGAATGTTCAAGAGCAGCTTAGTGCAGAT
ATTTTTCACAAGTCAGTCAAATTCAGAGTGGTGTAAGCCCTGGAATGTTTTCTCAACAGAGCCAACAGTCCAT
ACCAGACCAGATAATTTATTACCTGGAAGAGCTGAAAGTGTTTCATCCACAGTCTGAAAACACGTTATCTAATCAA
CAGCAGCAGCAGCAGCAGCAACAGCAAGTGATGGAATCTTCAGCCGCAATGGTGATGGAGATGCAACAGAGTATC
TGCCAGGCAGCTGCCAGATTTCAGTCAGAGTTATTCCTTCAACTGCTTCAGCAAATGGAAACCTTCAGCAATCG
CCAGTTTACCAGCAGACTTCTCACATGATGAGTGCAATTGTCTACCAATGAGGATATGCAAATGCAGTGTGAATTG
TTTTCTTCTCCTCCTGCACTTCTGGAAATGAAACTTCTACAACACCACAGCAGGTTGCAACCCCTGGCACT
ACCATGTTTCAGACATCAAGTTTCAGGAGATGGAGAAGAACTGGAACACAAGCAAAACAGATTTCAGAACAGTGTC
TTTCAGACCATGGTCCAAATGCAACATAGTGGGGACAATCAACCTCAAGTTAACCTTTTTTCATCCACAAAAAGT
ATGATGAGTGTTTCAGAATAGTGGTACCCAAACAAGGTAATGGTTTATTCCAGCAAGGGAATGAGATGATGTCA
CTTCAATCTGGAAATTTTTTGCAGCAGTCTTCTCATTACAGGCCCACTTTTTTCATCCTCAAAATCCTATTGCC
GATGCTCAGAACCTTTCCAGGAACTCAAGGTTCTCTCTTTCATAGTCCAAATCCTATTGTCCACAGTCAGACT
TCTACAACCTCCTCTGAACAAATGCAGCCTCCAATGTTTCACCTCTCAAAGTACCATTGCTGTGTTACAGGGCTCT
TCAGTTCTCAAGACCAGCAGTCAACCAACATATTTCTTCCAGAGTCCCATGAATAATCTTCAGACTAACACA
GTAGCCCAAGAAGCATTTTTTGCAGCACCGAACTCAATTTCTCCACTTCAGTCAACATCAAAACAGTGAACAACAA
GCTGCTTTCCAACAGCAAGCTCCAATATCACACATCCAGACTCCTATGCTTTCCCAAGAACAGGCACAACCCCGG
CAGCAGGGTTTATTTCAGCCTCAGGTGGCCCTGGGCTCCCTTCCACCTAATCCAATGCCTCAAAGCCAACAAGGA
ACCATGTTCCAGTCACAGCACTCAATAGTTGCCATGCAGAGTAACTCTCCATCCCAGGAACAGCAGCAGCAGCAG
CAACAGCAGCAGCAACAGCAGCAGCAACAACAACAGAGCATTATTTATTTCAGTAATCAGAATACCATGGCTACAATG
GCGTCTGCAAAGCAACCACCACCAACATGATATTCAACCCAAATCAAAATCCAATGGCTAATCAGGAGCAACAG
AACCAGTCAATTTTTACCAACAAAGTAACATGGCCCCAATGAATCAAGAGCAACAGCCCATGCAATTTTCAGAGT
CAGTCCACAGTTTCTCACTTCAGAACCAGGTCTACCCAGTCGGAATCATCACAGACCCCTTGTTCCATAGC
TCTCCTCAGATTTCAGTTGGTACAAGGGTCACCTAGTTCTCAAGAGCAGCAAGTAACTCTCTTCTTATCTCCAGCA
TCCATGCTGCTTGCCTTGAGACCAGTATAAATCAACAAGATATGCAACAGTCTCCTCTTTATTCCCCTCAGAACAA
ATGCCTGGAATTCAAGGAGCCACATCTTCGCTCAACCACAGGCTACTTTATTTCACAACACAGCAGGAGGCACA
ATGAACCAACTGCAGAATTCTCCTGGCTCATCTCAGCAGACATCAGGAATGTTCTTATTGTCATTCAAAATAAC
TGATGTCAGCTTTTAACCTCTGGACCAGTACATTGCCTGATCAGTTGATGGCCATAAGTCAGCCAGGCCAACCA
CAAAACGAGGGCCAGCCACCTGTGACAACACTTCTTTCTCAGCAAATGCCAGAGAATTCTCCACTGGCATCCTCT
ATAAACACCAACCAGAACATCGAAAAGATTGATTTGCTTGTTTCATTGCAAACCAAGGGAACAACCTTGACTGGC
TCCTTTTAACTGGATATAAATTCCACGAAGAAAATCCTGATTCCAAGATGTCCTGAGATCTTGTTGGTTCCATGAG
AATTATTACTTTTAAAAACAAAACAAAATATAAAAACTGTGTTTGAAGTAACTGATAGATTTTACTCTGACTGCA
AAAGAGCACACCTATGCTGCTTGTGTCAGTGACTAACCACCAATGTTAACATCTTCATATTTTATATTCTTAATA
ACAGTGATGACTGAGAATCTATTTGAGTTTCAGCTGGCAGAAATTAATTGTTATTATTTTCTAGGCGCAATTC
CTTAAACGTACAGTTTAAATTCAAGGCTGGACCACTCAGTTATTATTGCTATTAGAAAATAATATATCATGTTTA
CTTTTGTTCTTCATTATTTTCTTTCCTGCATTGTTTTAGTCAAGTAATGGCTTTTGAAAAAGTAAAGTTCAATAA
TAACTAAGGCTGTGATTTTTTTCAATATAAAAGGCACAGCTGTTGGCCAAAGTGAAGGAATCTTTTTTCAGTTTT
ATTGGAGAACTGAAGGGTAACATTCTAACAAGTAACTGTATGTGCAGATAGAAGTACTCTTGATTTAACACAA
AGGCAGATGATACACTTATAAACTGGGAACAGCTGGAATGCTTCTTGATTTTATTTTTTCAGAGAGTTGTTAGT
TCTCTGGGTTTCTACTAAGGGGTTTAGCCATAACTGTGCATAGAAAAATAATTATCTGTAAAAAATGAAGGGGAT
AATATATGATAAATTATGTTCTGATATCCTCCTACAGTAGTTTAAATTGACAGAAAAATTGAATGTTTTCTTCT
TAACCCAGTCTTAGGCTGGTATTCCCTTTTTATATATATCTATATTACTTTTCACCTCTTTTTTCACTTTACTTTA
GAGAACTATTAATATACTACTGGCTTCATGACCCTGTAGCATCTTTGGCCACTTTAATCTAGGGTGACCTAGCAA
TCCTGCAGCACAGGGCAGAGAGTACTGTCTTAGGAATTATTAGGAGTTGATTCTGAGAAACAACACATTTTTCC
CCATGAACGGTGCTGTTCTGAAGTCTTCAAATTTTTCCCTCTAATAGGAAACAGTATAAATTTTAAATAAAAAA
AAAGGCCAACTAAAATTTCTTGAATATCACTTCTCCTGATCTGCAGTGAGTATAAATTCATTGTACCTCAG
TGCTTTACAGTTTGAAGTGGTCACTTACCTGATGGTTCCCAAGCCTTAGGCTTTACAGGGTTGTATCATTGAC

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FIGURE 1584C

TTAAATGAAGAATTAACCTTGTGTTACATCTATAAAGAGCAAATAACACACTCCAGAACTTGGCAGTTGTAGCA
TTAGTTATACAGTTTTGGGTGTTCTTGCCACCCGTGGGATGCCGTCTCTACTACCACCTGTGTCTGGACACAT
GCTTATGTCTCATTTTCCTTTTGGCATGTGGAAAGCTGTCAATGCAGTGTAAAGCCAACGTGTGTGTGGCTTCTA
TGTGTTGAGATAATGTTTTGGTATCCTTGTCGGTTTCATTTATTTTTTAAGTGTACAAAAAATAACCTGTTAATT
GTTGAAGGCTACTTTTCTGTTCTTTTTTTTTTTTTTCTATCCTGTACATTTAGTTGAAGTGTGCGGAATTGTG
GTGTTGGTTTTGTTTACACAGCCAGATTTTCCCTTCTTTTTGTTTTGGGATGATCTTCCCTTGTCTTTGAATGG
GCTCTTTTGCTTTTTCTCTTTTTTCTCATGTTTTCTTCCCTCCACCTCCACCCCTTCTTTCTTTCTCTCTGA
TTGAGAGGCATTGAATTACGTTTTCACTAGTACAGGCTTCTTGCCGATATGAAGGGAACCTTTCAGAAAGAGACC
TACTCTGGGTCATTTAATTTGAATACAGTTTTCAATCGTTCAAGTTTTGGATGGTTTATATCTAATGTGTGTTT
CATTTTTTTGGAAAGCTATATTTTGTATTTAGGAAATGGTATACTATTTTGCTATTTGTACTGAGTGAGTACATT
GGCATAAATATAGAAATTTATATATATACATATATAAACTATTCTTTTTTGCCACACATTTTGTGGTAAATT
TGTGAGTTTGTCTGATGTTCTACCACAACGTGGCGTCTGATAACAGTGAGGGGGGGTGGGGTTGTTATGTCTTT
ATTGAGTATTTAAGTATCTTTTGAACAAATGACCTGTTCTATCTGTGGCCATTCCATCAGGCAGTTAGTTCCTTG
ATGTCAGTAGTGGGCTAAAGGCAGCTTACTGTGTGTTTGCTGGAGCTTTCACTCAGCCAAGTGTAGGGTCAGGA
AACCCATTGAGGCAATGGCGTCAAATGGTGTTCACAAGAATGAGCCATTCACTCTTTGCTCACTATATATTTAA
TATTTTATTATTGTTGTTATTGTTATTATTAATTGGCCTTTCTGTATTCTATGCCCTTTATTTATAAAGACACTA
AGAAAACCCATGTTTGTAAATTTTAATAACATTTTCCCATCTTGTAATATCCAGAGCTACTTTATAAATTCTCTG
AACCAAAAGTATTTTCCCTCAGTGTATCTTCTTCCCCAGCCCCCTATTGGGAAAAATTACCCAGTATAGTTCAGG
TTATGAGGAGGATCAGCCACACAATCCAGTGCTTCAGTTTGAAAATGTAAAATTTCTAACCTAAAGTAGGGTTGG
TTGAAATTTAGACAAAGCAAACCCAGCAGGTATAAAAAGTAGTATAAATACAAATCTGTAAGTTATTTTTGAAT
TTTCTGAACTTTTTCTAAGAGATTACATAGGAGACTAAAGAAATCTATCTGTTCAAGTTCTAATTAGGATGATT
GTTAATACTGCACTGTGGATGAAGTGGCGACTGGCTTGTGTGCTGACTTCTGTGGTTTAGCAAGAGGTTTATTGT
TATCAAATGCTAATTGGCAATGCCAAGTCACTGGGACCAATTTCTGTTTTATAATATCTAAGTTTAGAACAGAA
TATATACCTGAAGTGTAGTGGTTTGATCGGATGGAGACAGAAAACCCGATTTTTATTCTCATAAATTTTGTGGTT
ATTTATACAAGGGCTGTGCTATGCTACCATATTCTGTTCATAATAATAGGTTTGTGTTTTTTTTTACATTGTT
AAATGTTCCCTTACCCCTAAAGGTCAATGTTAAGTACAACATTCTGAAAATACAATTTGGCTACAAAGAGTATTCA
TCTTCTTTGAAGCTCAGTGGTTGATATTTGTGCTAATAATGCAATTTCCCTGATTACTGTTACAAGTTATAGCTAC
ATATGGGAGAGACTCAGGTGAGCCAGCAAAGGCCATAGAAACAACAATTTATTAAATGTATTTATGGCAGAAGGA
CCTAAATAAACTGTGAGCCACCTTTTCTTCTTTATATTGTTACATTTAAGTGTCTCGTTTCAAGCAACTACAT
TAATGCTTGGAGCTTATCTCTTTCTCTCTCTCTCTCTCTCTGTGTGTGTGTGTGTATGTGTGTGTGTGTGT
GTGTGTTTTCTTATTGTCATTCCATTATATATCCACACCAACATGGGTGACGATAATTCAAAGTCATATTTGCC
TCTAAGCTTGATCATGTTACCTTTATGATTAAAGTATCATGTTATTTAGCCAATGCAAATCTGTTTTAAAAA
TAGTTTTAAAAAAGAACAAGTTTTTAAGGGCTTTATTATAGAAGAAGTATTAATGAAGGACTTCCCTCCCTCCCT
CCCTTTCCCTCCCTCCCTGCTTCCCTTCTTCCCTTCCATCTCCCCCTCCCTCCCTGCCTTCTTTGTTTCTCCTTCC
CTTATTCCCTCCCTCCCTCCCTTTCTCCCTTCCCTTCCCTTCTTCCATTCTCCTTCCCTTGCCTTTTATTTTATTTT
TTGTAATATCACATGTGCTGTAGTTTGGAAATTTTATTCTAGTGCATTTCTTGCTCATCAGAACCTCAGCTAATCT
ACCTAGGAAAAATAGTATCAAAGGAAATGAGAAAGTTGTATCTGAGTCCCTCCAGAACTAAGATAATTCTTTTTG
ACCATTTAAGCCTTTATAAATGCGTTTTGACCATTTAAGCCTTTATAAATGCTTGTTTTAGGAAAGTGAATCTGT
TAGATGCATCAACAAATAATGACCAGGACAAAACGATTTAATAATTAAAGTCTCAAATCACCATGGTTATACATT
TTCACCAGAAATAGTAATCTTACAATTTTTCTATTTTCTGATGAAGATTTCTGTTACAATATCTGTTTCTTAATA
GATTTTTTAAATTAATTAGCTTTTCTCTGCTTTATGACCATAGGTTTTATCCCTAACCCGAGACAGCTGTCTTATA
TCTGCATGCCTTAGACTGTGTGGAGGACTCCATGAAGAAAGACCATAGGTTAGAAAAATAACTCATAGTATATA
CCCTAGTAAGTGGGTTAGTAGAATCTCATAACATGTATTAATAAGAGGTTTTCTTCTCTGCTTGTGTTGTCTACT
AGAGCAAAATGTAGAGATAATGCTCATAATGCAGTAAATATCAGAATAATATCTACAATATCATTTGTGGATGG
TCCCAGGTCCCAGTGCTCTAGTTACTTTACTTCTTTTTTTTTTTTGGAGATGGAGTCTTGCTCTGTCTCTCAGGCT
AGAGCAGTGTGCGATCTCAGCTCACTGCAGCCTCCACCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCA
AGTAGCCAGGATTACAGGCACCTCCACTAGGCCCGGCTAATTTTTTTTGTATTTTTTTAGTAGAGATGGGGTTT
TGCCATGTTGGCCAGGCTGGTTTCAACTCCTAACCTCCAGTGATCCACCTGCCTCGGCGTCCCAAAGTGCTAGG

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FIGURE 1584D

ATTACAGGCATGAGCCACCACATCCGGTCTAATTACTTCTTTAATCCCCATTTATTTTTATGCCATTCTAGCCTC
ATTTATTAATAAAATTATGTTTTTACTTTCTCTTTCAGGAAATTTTTAAATTAATATTTTTATATCTAGATCAAA
TGCTATGGAAAAGTGCCTTTTTATCATTATAAATTCATTTTCACTATTTCCAAAAACACATAAACAAATAGTT
TCAGTAGGTCCCAGCTTTTACTTTTTCCATTTAAACCTTCTTTCTCCATTTCTTCCCTTTGGCTTAAGAATAAA
AGAAAAGGTACATTGCTAGAATTGTTTCTTTGGGAGAGGGTAAAAGATTACAGAATTAGACTGTTTCAGCCTTTAT
ATAAACTAAATTTGTCTTCATCTCAACCAGCTAATGGTAGGTCTTATCTGAATACTCATGAGAATTTTAGCATCT
GTGAAACTCCATGCACCAGATGTGTGTAATTTTCAGGAAGAAAGTGTTGAAAGCATTCTTCTCTGATGTTAATTAG
ATGGAAATAAATCACTAAACATAGTTTAGGTAAAGCCTGATTATGCCACTTTTTTTAACTAGACAGGGCAAAG
TTGTTTATGTTAGTGTACTTCTTGTCTATCCTCAGTTAATTTACCTAGACAAAAGTGTCAAAGGAAATGAGAAA
AAGGTTATATCTGACTCCCTCCAGACCTAAGATAATTCCTTTTGATCAGATACAGTCAGATGGAGTGCCTTGTT
TTTGTTAATTTTGCCTCTATTCCAGCTCCTTACCACAGCGGTGGTGCTTAAAGAAAGGATCATCAGCAACAGGTC
AGGATAGTTCTACCTTTGGGATAGGGCTGCTTTCCCGTGCTAGTATTTCTGTGACTGTTAGTGGCACTGAGGAC
TGCAAACCTTTTATGCAATATTCTTAATACCCTATTGATATTATGCACCTTTAATCATTCCAAAGAAGCCAAGAATG
CTGTATAGTGATGATTCTTCCCTAATGAATTCATCTTAACTATTTAGAATGTTATGTCCCTTTTCTTTTGGATAG
CCAACCTTGGTATAAATGTTATATGGATTTTTCTAAAATGACTATATAGGACTTAAGACTTTGAAATGTAATTTAC
TTATAAGGGGAAATAAATTATGCTTTAGCACATCATTTTAGAAACGTCACATTTTAGAACATTCAGCTTGCTAACC
TACATGTTTGGGAATTCATTTAAAACCAAGTGCTATATATTTTGTGCCATGTATATAAGAACATTACAATATAT
CTTTTTCTACATATGTAGTATGTGCAACCAGTGTTTCTCAGAGTATGGTTTCTCAGCCCACCAGCTAGTATCAGTA
TCACCTGGGAAC TAGTTAGAAATGTAAATCTTTGGCCCCATCCCAGACATACTGAGTCAGAACTCTGGAATAG
GGCCCCGCAATCTGTTTTCACAAGCCCTCCAGGTGATTCTGATGCACACTTTAAAGTTTAGGAACCACTGGGCT
AAGACTCTGTTGAGATATAGAGTTTTTCTTCCACTCAGACTGATATAGTTATACATTGTTCTTCATGTAAATTCA
GCTTAACCTGGTTATCTATAATCTTTTATTGGCAAAAGTTAATTCTCAGTACTGCCTATAGAGATACAGTGTATT
TTATGTACATACACAATTAGTCTAATTCTTGATAATTCAGTTAATTTAGTTTGGCATTCTTCTTACCCTTACTAA
AAGGTTTACATTAAATGACTGATTTAAATATATAGGTGCAATGTTCTATGTTTATTTTAATTGTTATGACATTTA
AGTAGCTAATATAATTGACCGGTGCTAAAGTCTCCTGTTTATCCATAAAATGGGTACATTATGGGCAGTGTAATA
CAAGCTTTCTTTTCAATTGCCTAGTACTTTACCAGCAGACCACAGTTTGCCTGGCTAGACCAACCTCAGAACAA
AATCATCATTCCTTGATTTTATATTTGTATCTGAGATAGTAAACAAGATGGCTGGCCAGGTCAACATGGCACCTT
AACTTATTTTTTTAATAGGTAAAACCTTCTTCAAAGTAGCTTGCTTTGTATAAGAACTAAGCTATCAGTATAGAT
ATAGCTATCCTTGGAGCTTATGTTTCAGACAAGAATTATTTACTAAAATAAATAAACAAGATAATGCATTAT
ACATTTGGGCATTTCTCGTTTCTCAAGTGATGCATCATGGTAAATATAAACTAACCACAAGATAGGTAGATTGA
TTCATTTCATTTTAATCTCCTTGTTAATTCAGTACCTCCATAATTGTTCTAATCTTCTTCCCACTGTTTACAAA
TTACCAGTTAATTAACCTCGTGAAAGAAAAATTCACATATCAGAATAAAAATAAATGTATACTCACTTTATAAAAA
TCACCAGTGTCTTTTCTTAATACTAGCAGTGGAATGTAAAGTGGCTTACTCTACAAATTTTGGTGCTGGCAA
ATACATAGGCAAACCTGTTGGGAGCTGCTCTAGTTACATTCTCCCTTCTTATTCCCTTTTCTCTTCTCACTTT
ATTGCATAACATATTCTGTACCCAAAGCATTCACACAGTTCTATTTGACTCCCCTTGTAATAACTCCTTTA
AAAAATTCCATGTTTAACCATATGACCCGTGCTTGCTTACTCATATTCTCCCTCCCTCTCCCTTCTCTCTCT
CTTCCAGAAGTCATTTGCCTGGTTTGAATATTTTGTAGGGATTGCTTATTATATTATTTTAGCTGATGAACCTC
AGGACAACGTCTACACACACACACATACATACACGCACACAAAATCTCAGCTGTTGAAGAGTGGGCTTGAATCA
GACTTCTGTGTCCAGTAAAAAATCCTGCCTGAAGTCATTGTGACTTGAGTAGTTACAGACTGATTCAGTGAA
CTTGATCTAATTTCTTTTGATCTAATGAATGTGTCTGCTTACCTTGTTTCTTTTAAATTGATAAGCTCCAAGTAG
TTTGCTAATTTTTTGACAACCTTAAATGAGTTTCATTCACTTCTTTTACTTAATGTTTTAAGTATAGTACCAATAA
TTTCATTAACCTGTTCTCAAGTGGTTTAGCTACCATTCTGCCATTTTAAATTTTTTATTTAATTTTATTGCTTGA
GCACACTGATCAACCACTGAACCTGCCTTCTTCCATTGTCTGCAATGATATAAGGGTTACATTTTTGTGTATATG
GCTTTCATAGTTGGGATTTTCAGAGCACTGATACCAGATATTTTCAGTTTGTCTCTGGGGGAATTTTCAATTGCT
CTATGTTTTTAGCTATCTGTGATAACTTGTTAAATATTAAGGATATTTTGCTTCTATTGGAACATTTGTATAC
TCGCAACTATATTTCTGTAAACAGCTGCAGTCAAAAATAAAACACTGAAAGTTAAAAA

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FIGURE 1585

MGGACSSFTTSSSPTIYSTSVTDSKAMQVESCS SAVGVSNRGVSEKQLTSNTVQQHPSTPKRHTVLYISPPPEDL
LDNSRMSCQDEGCGLESEQSCSMWMEDSPSNFSNMSTSSYNDNTEVPRKSRKRNPQRPQGVKRRDCEESNMDIFD
ADSAKAPHYVLSQLTTDNKGNSKAGNGTLENQKGTGVKKSPMLCGQYPVKSEGKELKIVVQPETQHRARYLTEGS
RGSVKDRTQQGFPTVKLEGHNEPVVLQVFGVNDSSGRVKPHGFIYQACRVTGRNTTPCKEVDIEGTTVIEVGLDPSN
NMTLAVDCVGILKLRNADVEARIGIAGSKKKSTRARLVFRVNIMRKDGSTLTTLQTPSSPILCTQPAGVPEILKKS
LHSCSVKGEEEVFLIGKNFLKGTKVIFQENVSDENSWKSEAEIDMELFHQNHLIVKPPPYHDQHITLPVSVGIYV
VTNAGRSHDVQPFTYTPDPAAAGALNVNVKKEISSPARPCSFEEAMKAMKTTCNLDKVNIIPNALMTPLIPSSM
IKSEDTVMEVTAEKRSSTIFKTTKSVGSTQQTLENISNIAGNGSFSSPSSSHLPSENEKQQQIHAKAYNPETLT
TIQTQDISQPGTFPAVSASSQLPNSDALLQATQFQTRETQSREILQSDGTVVNLSQLTEASQQQQQSPLOEQAQ
TLQQQISSNIFPSPNSVSQLONTIQQLQAGSFTGSTASGSSGSVDLVQQVLEAQQQLSSVLF SAPDGNENVQEQL
SADIFQQVSQIQSGVSPGMFSSTEPTVHTRPDNLLPGRAESVHPQSENTLSNQQQQQQQQQVMESSAAMV MEMQ
QSICQAAAQIQSELPSTASANGNLQQSPVYQQTSHMMSALSTNEDMQMCSELFSSPPAVSGNETSTTTTQQVAT
PGTTMFQTSSSGDGEETGTQAKQIQNSVFQTMVQM QHSGDNQPQVNLFSSTKSMMSVQNSGTQQQGNGLFQQGNE
MMSLQSGNFLQQSSHSQAQLFHPQNP IADAQNLSQETQGS LFHSPNP IVHSQTSTTSSEQMPPMFHSQSTIAVL
QGSSVPQDQOSTNIFLSQSPMNNLQNTNVAQEAFPAAPNSISPLQSTSNSEQQA AFQQQAPISHIQTPMLSQEQA
QPPQQGLFQPQVALGSLPPNPMPQSQQGTMFQSQHSIVAMQSNSPSQEQQQQQQQQQQQQQQQQSILFSNQNTM
ATMASPKQPPPNMIFNPNQNP MANQEQQNQSIFHQQSNMAMPNQEQQPMQFQSQSTVSSLQNP GPTQSESSQTPL
FHSSPQIQLVQGSPSSQEQQVTLEFLSPASMSALQTSINQODMQQSPLYSPQNNMPGIQGATSSPQPQATLFHNTA
GGTMNLQNSPGSSQQTSGMFLFGIQNNCSQLLTSGPATLPDQLMAISQPGQPQNEGQPPVTLLSQQMPENSPL
ASSINTNQNIKIDLLVSLQNQGNNLTGSF

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FIGURE 1586

AGAAACGGCAGTGGCAGCAGCGTCCGGAGCAGCCGAGCCTTCTGGAAGCTCCAGGCGGTCTTTCTGCCGAGCCT
CGGTCCCGGCCCCCATCTCCCCGCCCATCGGTTGTTGTCTGGGCGGATTTAAACAGTCAAGTAAAATCAAGCT
GGGTAATCATGGCAGAAGGTGGATTTGATCCCTGTGAATGTGTTTGCTCTCATGAACATGCAATGAGAAGACTGA
TCAATCTGTTACGGCAGTCCAGTCCCTACTGCACAGACACAGAGTGTCTTCAGGAATTACCGGGACCCTCTGGTG
ATAATGGCATCAGTGTTACAATGATCTTGGTAGCCTGGATGGTTATTGCATTGATCTTGTCTTACTGAGACCTC
CTAATCTAAGAGGATCCAGCCTACCTGGAAAGCCAACCAGTCCTCATAATGGACAAGATCCACCAGCTCCTCCTG
TGGACTAACTTTGTGATATGGGAAGTGAAAATAGTTAACACCTTGACGACCAAACGAACGAAGATGACCAGAGT
ACTCTTAACCCCATTAGAACTGTTTTCTTTGTATCTGCAATATGGGATGGTATTGTTTTCATGAGCTTCTAG
AAATTTCACTTGCAAGTTTATTTTTGCTTCCTGTGTTACTGCCATTCTATTTACAGTATATTTGAGTGAATGAT
TATATTTTTAAAAAGTTACATGGGGCTTTTTTGGTTGTCCTAAACTTACAAACATTCCACTCATTCTGTTTGTA
CTGTGATTATAATTTTTGTGATAATTTCTGGCCTGATTGAAGGAAATTTGAGAGGTCTGCATTATATATTTTTAA
ATAGATTTGATAGGTTTTTAAATTGCTTTTTTTCATAAGGTATTTATAAAGTTATTTGGGGTTGTCTGGGATTGT
GTGAAAGAAAATTAGAACCACGCTGTATTTACATTTACCTTGGTAGTTTATTTGTGGATGGCAGTTTTCTGTAGT
TTTGGGGACTGTGGTAGCTCTTGGATTGTTTTGCAAATTACAGCTGAAATCTGTGTCAATGGATTAACTGGCTTA
TGTGGCTAGAATAGGAAGAGAGAAAAAATGAAATGGTTGTTTACTAATTTTATACTCCCATTAATAATCTCTAAT
GTTAAGAAAACCTTAAATAAACATGATTGATCAATATGGCAGATGATTTACAGTCCATTATATGACATTTGTAAG
CCACTCAACACTAGCCTTACAAGGTTTCATGAAAGGAGGAAAACATTAATCTTTCTGCCTTTGCTGATATAATCC
ACATAGTAATAATTTAAGCTATAATTTATTTTTTAAATGAGTGCCTCTTGGGAAGCTTCTTTCTGTTCTAACAG
TTCCCTGTAAAAATGAAAATCTTAGGCCAGTGCAGTGGCTCACACCTGTAATCTCAGCACTTTGGGAGGCTGAGG
TGGGTGGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAATA
CAGAAAAATTAGCCAGGGTTGGTGCATGTGCCTGTAATCCCAGCTACTCAGGAGGCCAAAGCAGGAGAATTGCTT
GAACCCGGGAGGTGGAGGTTGCAGTGAACCAAGATCGCACCACTGCATTCCAGCCTAAGCAATAGAGCGAGACTC
CTCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1587

MAEGGFDPCECVCSHEHAMRRLINLLRQSQSYCTDTECLQELPGPSGDNGISVTMILVAWMVIALILFLLRPPNL
RGSSLPGKPTSPHNGQDPPAPPVD

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FIGURE 1588A

CAGCCCGGCCTTCGTGCGCCGCGCCTCCCTGCTGCTCCTCCTCTTTCCCCAGCCCGCCGCGGCCATGGCGGACA
GCGCCAGCGAGAGCGACACGGACGGGGCGGGGGCAACAGCAGCAGCTCGGCCGCCATGCAGTCGTCTGCTCGT
CGACCTCGNNNNNNNNNNNNNNNNNNNNNNNAGGCGGCGGGTGGGAAGTCGGGGGGCATTGTTCATCTCGCCGT
TCCGCCTGGAGGAGCTACCAACCGCCTGGCCTCGCTGCAGCAAGAGAACAAGGTGCTGAAGATAGAGCTGGAGA
CCTACAACTGAAGTGCAAGGCACTGCAGGAGGAGAACC GCGACCTGCGCAAAGCCAGCGTGACCATCCAAGCCA
GGGCTGAGCAGGAAGAAGAATTCATTAGTAACACTTTATTCAAGAAAATTCAGGCTTTGCAGAAGGAGAAAGAAA
CCCTTGCTGTAAATTATGAGAAAGAAGAATTCCTCCTACTAATGAGCTCTCCAGAAAATTGATGCAGTTGCAGC
ATGAGAAAGCCGAAC TAGAACAGCATCTTGAACAAGAGCAGGAATTCAGGTCAACAACTGATGAAGAAAATTA
AAAACTGGAGAATGACACCATTTCTAAGCAACTTACATTAGAACAGTTGAGACGGGAGAAGATTGACCTTGAAA
ATACATTGGAACAAGAACAAGAAGCACTAGTTAATCGCCTCTGGAAGGATGGATAAGCTTGAAAGCTGAAAAGC
GAATCCTGCAGGAAAAATTAGACCAGCCCGTCTCTGCTCCACCATCGCCTAGAGATATCTCCATGGAGATTGATT
CTCCAGAAAATATGATGCGTCACATCAGGTTTTTAAAGAATGAAGTGGAACGGCTGAAGAAGCAACTGAGAGCTG
CTCAGTTACAGCATTGAGAGAAAATGGCACAGTATCTGGAGGAGGAACGTCACATGAGAGAAGAGAACTTGAGGC
TCCAGAGGAAGCTGCAGAGGGAGATGGAGAGAAGAGAAGCCCTCTGTGACAGCTCTCCGAGAGTGAGTCCAGCT
TAGAAATGGACGACGAAAGGTATTTAATGAGATGTCTGCACAAGGATTAAGACCTCGCACTGTGTCCAGCCCGA
TCCCTTACACACCTTCTCCGAGTTCAAGCAGGCCTATATCACCTGGTCTATCATATGCAAGTCACACGGTTGGTT
TCACGCCACCAACTTCACTGACTAGAGCTGGAATGTCTTATTACAATTCCTCGGGTCTTCACGTGCAGCACATGG
GAACATCCCATGGTATCACAAGGCCCTTACCACGGAGAAGCAACAGTCCTGACAAATTCAAACGGCCCCACGCCGC
CTCCATCTCCCAACACACAGACCCCAAGTCCAGCCACCTCCACCTCCACCTCCGCCACCCATGCAGCCCCACGGTCC
CCTCAGCAGCCACCTCGCAGCCTACTCCTTCGCAACATTGGGCGCACACCTCCTCCAGCCTTAATGCATGAGCT
TAGTCTGAATTTCAAGTTGGGACTCATCCAATGGAGCCGTCTACTCAACGCCAAAGGCTTCCTTCTCTGGCATAT
TTGGATATGACTTATTTGCACTGAGGTTATCTAGGCTTCACTATCCATTGTGTTGTAAATGTTTGTGAGAAATGC
AGCCAGTGTTGTGGGTCTACAACACTAACCAGACGACTTTTTCCATCAGTGTTTTACTTGAATCTTCATGTACGT
CCATTCCCTGGCTGGAACCTTCGCTGTTTGGTATTTGGTATTTTACGAGCAGTGTCGAATTTTTGCTTGGCCCAG
AGCTTCATTCTCCTGGCTTTTAGGTTTGTAAAGAAAAAGGGATATCTTTTTTATATTTTTTCCATGAATCTGC
AGAAAATTACTGAGCTGTTGTTACCCTCCTCTCATTATAATAGTGTTTACCAACATACCAATAATTCAGCACTA
CAATTCAGACCTTTGAAAATCTGGCTTTTCAAGTGTAACAGAAAGTTAGATGAATCAGTGCCCAAGACATATTTT
CTGTTTAAACAGAACTTTCTACAGATACATTTTTTACAGGTTATTTTTCATTGTGTTATTGACATCCATGTCTCTCG
TAAACAGATGGCCCAAAGTAATGAATCATGTGGCTGTACCTTCTCCACATAAATGGGATGGATAATTATCGTAT
ATTAAGATGTGATTCTTTTTTATCCTTAATGTTAATCTACTTAACCTGGCCCCCTTAACATGAGTCGATAAA
TGTTGTCTACTCACCGGTGGTTTCAATGGCTAATTAGAATGTGTTATTTGATTCTGCTGCAGAAGGCAGTGTG
ATTGTAACAAAAACAATGCGGCTTCCCCCTTTCGTACTTCAATTTGTGTTCTCTTAAATAGAGTTTGAACAAATA
TTTTAAAGGTGCAAAATACCATTAGAAAATACTATTTGAAATGGACATTATCGCATTATCTTGGCATAATGGCCA
GAAAATATTGTATTGCTTGGCAGAAAAGAAAATAAGGTCTAAAGGAAAGTAGCACATTAGCATTGATGGCTGTTT
ATTTACCCAGTATAAGCAAGTGCAGTGTACAAAGAAGTATATTCTGAATACATTATTTCCATTCAATTTAGCACA
AATAAATCATTGTTTTCACTTTGCAGTGGAACACTGAGTCACTCTTTCTTAACACGTGCAACATCTTAATTTT
TGTTTTTCAGCAGTTGCTGTTTTGTACTTTGGTAGTGAAGTGATTTTACCACCTGTGTTTGCATATTTATATAT
GCTGTGGATGAAAATAACTTACTAGAGAATGTATATTTTATGACAAGAATGTGTATCTGTTGGATATAATCAGAG
AACTGAAAAGTAATTTATCAGTAATTTTTAAGAGTCCATGTTTTGTGACAACCATCTCTAATAGCCAACCTCTTA
TTAAACACACTCCTAAAAATAAGGAACCATGACATTGTAGATATTTAATATTGTACAGTATAGAAACCTCCATTT
TTGCCCTCGAATGCATATTTAAGAGTTAACAGAATGAAAAAAGTCTTGTTGGATAATAGTGTGTTGACTAGC
GTTTTAAGAAGTTGAGAGTAAAAGCAACAATAAGATTTTTTACCTCTTCCTGCTTCCACCCCCAACTGAGAAC
ATCACTCAATTGTTTGAAGAACTGTAGGTCTATATAAATTTTTATTATAATGTATGTGAATATACATAATCA
TAATACAGTTCTCAGATGCAGGGAAGAAGTTTGGCATTTAATCATTGAGGCTTTAGGTTTTTGATGTGATCAGAC
TGGGCCATGTCAAACCCGGAATTTTACCAACAGTTCACCTCACCTCCTGGTACATTGCCATTCCAAGGAATTCT
GAGAGTAGGCAACAAATTTTGCTTCATGGTACAGTTCTCAGTTTTTCTTATAGGAGAAATATGGTATATGTTT
ATAAGAATCTTTTATGAGATTATAGATTTCAATGCTGTGGATAGTGTCTTGACCCAAACAAGAAAGTCCATAAT
GGAATGATCTTCCCTCAGCTTCTATCGATTTAGTTACCTCTTGAAAGCACAAAAATTAAACATTGCCATATGT

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FIGURE 1588B

TGAATTTTTTAAAAAGCACTTGGAGTGAGCGAACATTTTCCTGATAAATGCCTTTTAGAGATAGGTTCTTGATATTC
AGACATCTGCAGAAATGTTCTGGTTCCCAAAGTCATTTCACTTCGAAATAAAACACAGCTCCTTCAAACAGCACT
TTTTCCACATAAAATCTAGTTGCCTCTCCCTGTGGACATTGAGAACTGATAGAACAAACACTACTCTTTTGAATTT
GATGGTTTCGTGTCCTTTAAAGTGTTTGGAGACCTATGCAGAGCCTGTAACACTTGGGTAGTACCTGCTAGGACAA
TTTCTTGGCAATTGTCTTACTACTAGGGATCAGTAAGATTTAGATTCTGAGCCCATAATGGCAACAGCCCCCTCA
CCTATGGGAAGCTGACTTCCCTCAGTCGGGCACCTTCTCATGGGGGCTGAACATGGTTTCTGCCATTCTGTTACCC
ACTCTCCAGGTGAGCCCTGGATTGGCTCCAGAAAGGCCTTTGTAAATCAGTAGCCATCCTGCAGGCAGGTGGG
AGCAACAGGGGCTTCAGTAGCTTCATTTTCCTGTCTTGAGACAGAGACCCTTGGCTACCACTGTGCTGCTAATA
GGATAAGTACTCTGTTGCCAGATTACCATGCCTTTTATACAAAACCAAATTAACCTACCTAATACCTGACACCTC
TTTGGGCTCTGAACTGCTTCTCTCATCAAGCATGCTAGCACTCTAGACAGAATTCTAGAAATTTGGCAGACAGT
GGAAGCCTTTAATTGAACTTACTCCTTCGTTGACTGAAAGGAGTTTTAAATTCTGAGCTCCTGAGATACTGACTA
GCAACCATGGAATGAATGTGTGACCAGAAAGTGGCTTTGACACCAAGTGCTACTGTCCCTTTGTAATTGGCTTCT
AACAGATTCAACCAGAAATAATTGATAATGTGAATTTTTGTAAATTGTTCACTTGTAGGAAAATAGAACATGTAT
CACCTTTTGTTAGGTAGACATGAACTTTTCTGCACAAAGCCTTGCTTTTAGAGAATGCCCAATAAGGCAAGAAA
AAGCATAGTAACTTGTGCTTTGAGAGCTCAATATTTGTATCTTATCAGTACAGAAGAAATATTTCTGTGTAACCT
GATCTTCTGTCTAGTACTTGTCTTATAGGTAACCAACACTGAAAACCTTTGTAGTGATGACTACCAAAGAAATACA
TAGTAAAACAACCTTTTATTTCCAAATTGTTAAAGAGCCAGCCATTGATGCTGCTACATGAGTTCCATGCTCAAG
AGCCATTGTAAGAGATTAAAGGGTTTCTAGGTTTTTGGTGATTTTTTGTGTTCTTTTTCTTTGTTTTTTAGGG
TTTTTTTTTCTTCTTTAATTTTTTGATTAAACATACACACAGCTGTTAGCATAAAGTCGTGGGGGGCATTCTCT
GGAATGCTCAGCAGTTCTGATTAACTGCCAAGCCCAGGTTGCCTCTCATGAGGCAACTGAAAAATCCTGTGTCT
TGATAGCATGGGTGCTGTGTGTGTGTCATGTGTGTGTCTGCATTATGCCTTAACTCGGGTTACTGCACAACCTTTA
GTTCTTGACTTAGTCTGCACCGTCATCTAGATTGTATTGTACATCTCGGTCTGAACTTCATCCTGGCAAAAACAA
AGTTGCAGGCACAAACAGTTTAAAGATGCATTCCTCCAGAAGAGTATCTGGTCAGGTTGACCCTGAGCCTTCTTTG
GACTTGATTTGGAACCTTAGCCTGGAAAGCGAAAGTGGACTGTCCAACAGAAAAGATGTCAACAAGGAAAAGAGGAG
AGCCAAGCGCTAGCATGCCTTTTGCCTCTGCATATCTGTGCACACTGTATGTTGTTTCATGATAGCTTGTCTACAA
CTTGACTAGGTTGGAGTTCTGGTAATAGTGGCAATCTTGACATTCTTGGTCAGAGTTTAGAGAGATGTAAGACTT
TCAATTAATGTCTTATTTACTCCTTTATGTTGATTAGTCTTTGATACATGTGCTGAATCAGAAACCTAAATAAAG
ATAATTTTTTAAAAATGTAAAAA

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FIGURE 1589

ARPSSPPPPCCSSSFQPAAMADSASESDTDGAGGNSSSSAAMQSSCSSTSXXXXXXXXXGGGGGKSGGIVISPF
RLEELTNRLASLQQENKVLKIELETYKCLKCKALQEENRDLRKASVTIQARAEQEEEFISNTLFKKIQALQKEKET
LAVNYEKEEEFLTNELSRKLMQLQHEKAELEQHLEQEQEFQVNKLMKKIKKLENDTISKQLTLEQLRREKIDLEN
TLEQEQEALVNRLWKRMDKLEAEKRILQEKLDQPVSAAPPSPRDISMEIDSPENMMRHIRFLKNEVERLKKQLRAA
QLQHSEKMAQYLEEERHMREENLRLQKRLQREMERREALCRQLSESESSLEMDDERYFNEMSAQGLRPRTVSSPI
PYTPSPSSSRPISPGLSYASHTVGFTPTPTSLTRAGMSYYNSPGLHVQHMGTSHGITRPSPRRSNSPDKFKRPTPP
PSPNTQTPVQPPPPPPPPPMQPTVPSAATSQPTPSQHSHTSSQP

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FIGURE 1590

ATAAAATTCTGCTTGTTAAGAACAAGTTTGGCTCTGGTAACTGACCTTCAAAGCTAAATATAAACTATTTGGG
AAGTATGAAACGATGTCTCGTGATCTGGTGTACCCTTATCCCTGTGACGTTTGGCCTCTGACAATACTGGTATAA
TTGTAAATAATGTCAAACCTCCGTTTTCTAGCAAGTATTAAGGGAGCTGTGTCTGAAATGGCACTGTCTTGTCAGT
CATTTCTGTTTACCTTTTTCTTCTGCCCAGAGTGTATTTGTGAAGAGTCTCTTATATTATGTTTTGTGGAAATCA
GCACACAACCACAATGACATTTAAGCACAGGATCATTATTAGTCTATGTTTTTAATAAACATATCAATTAAGAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1591

GGCACGAGGCCGCCATGGCCTCTCTACTCGCCAAAGGACGCCTACCTGCAGAGCCTGGCCAAGAAGATCTGCTCCC
ATTTCGGCCCCGGAACAGCAGGCGCGCACGCGGGCTGGCAAACTCAAGGCTCAGAACTGCAGGGCCCCCAAAA
AGAAAAGGAAGAAAACACAAAAGAAATTCCGGAAGCGAGAAGAGAAGGCTGCTGAGCACAAGGCCAAGTCTTGG
GGGAGAAATCTCCAGCAGCCTCTGGGGCCAGGAGGCCTGAGGCAGCCAAAGAGGAAGCAGCTTGGGCTTCCAGCT
CAGCAGGGAACCTTGCAGATGGCCTGGCCACTGAGCCTGAGTCTGTCTTTGCTCTGGATGTTCTGCGACAGCGAC
TGATGAGAAGATCCAGGAGGCCCGGGGCCAGGGCAGTGCCAAGGAGCTGTCCCCTGCCGCCTTGGAGAAAAGGC
GGCGGAGAAAGCAGGAACGGGACCGGAAGAAGAGGAAGCGAAAGGAGCTGCGGGCGAAAGAGAAGGCCAGGAAGG
CTGAGGAGGCCACGGAGGCCAGGAGGTGGTGGAGGCAACCCAGAGGGGGCCTGCACGGAGCCGCGGGAGCCGC
CCGGGCTGATCTTCAATAAGGTGGAGGTGAGCGAAGACGAGCCGGCCAGCAAGGCGCAGCGCAGAAAAGAGAAGA
GGCAGAGGGTGAAGGGGAACCTCACGCCGCTGACCGGGAGGAACCTACCGGCAGCTGCTGGAGCGCCTGCAGGCAC
GGCAGAGCCGGCTGGACGAGCTGCGCGGCCAGGATGAGGGGAAGGCGCAGGAGCTGGAGGCGAAGATGAAGTGA
CCAACCTCCTCTACAAGGCGGAGGGCGTGAAGATCCGTGACGACGAACGCCTGCTGCAGGAGGCCCTGAAGCGCA
AGGAGAAGCGCAGGGCGCAGCGGCAGCGCCGGTGGGAGAAGCGCACGGCCGGCGTGGTGGAGAAGATGCAGCAGC
GCCAGGACCGGCGGCGGCAGAACCTGCGCAGGAAGAAGGCGGCCCGCGCCGAGCGCCGCTGCTCAGAGCCCGCA
AGAAGGGCCCGCATCCTGCCGCAGGACCTGGAGCGCGCAGGCCTGGTCTCAGTCTTTCCACCTGGGGCCCGCGTC
TTCCGTCCTAGGAGACTCCAGGACACCCTCTGAGTCTTTGACGCTGGCTCTGTCCCAGGATCTCCACAGACCTCG
GCCTCTCCATGTGAGGGGGACACAGTGGTGTCTGTCTGAGTTGTGAGGGCCAGATCACAGATCCCATGTGAGAA
AGAGAGAGTTTCAGCGTCATCCTTGAACGCAGGATCCGGGACCTTCAGACCCAGGGAAAGGTGAGGGAGACTGG
GGCCTGGTCTGCTTTCCCGGGCCTGAAAGCTTCCCCGAGGTTTGCAGGGTCAGGGAGGAGGAACGGTGGGGGTGG
GCAGTCACTGCCTGTTCCCCACTGCCTGTGTTTCGACAGGACACGGGACAGAAAGACGGTGGCCTCTGCTGCCGGG
CCACGTTAGTCCGCAGCTCACCCGAACAGAGGACAACCTGAGGTGTGGCATATGGGCACCTGGCACTGGGAGTC
GGGGGAGCACGTCCAGGCGTGGTGCATCCTGGGGCAGAACGCCATGGCTCCTCCCCGCTCTCTTGGCTTCTGCCT
GTTGGGGTCTCATTCTTTCTGTTCCCCAGTGCCCCGGGGCGGCATTTTACTGCTCAGAAATTTGGAGGGAGGGAG
CAGTACCTTCCCGGAGTCCACGCATGTGAGTTGGGTCAAGTGCATTGGACCTAGGGAAAGAGAAAGAAAGAATAA
AAGCTGGAGAGAGAGTGAAGTGAATGCAAGATACAAAGTGGGATGGAAGAATTAAATCCAGAGTTCCAGGCAATC
AAAATGAGTGCAGGTTGAAAGAAAACAGGTGAATTTTAGTGGCATATGGATGATAAAGCTGTAAATAAAATTTCTT
TTGATGAAACTCTCCGTTATGAGACAAAGACTGTAAGTGAACAGGAGCTGGTGTGACTGTTACCAGACAGAGGC
AACTGATGAAAAGCCCTGTGAAAGATAGGATGTGAGGTGAGCATGAGCTTGAGCTGAGAGACAGACACAACAGT
ATCTGAAAAGAATACATACTCTTTCCATGCATATATGGAACATGGATGGAACTGACCACCTACTTTGTCCAGAA
AAGAAGTCTTAAGATATTTCAAGGAATCAGTGTGTTATCTGACCGTATCCCAATGTCATTAAAAAAAATTTGAG
CTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1592

MASLLAKDAYLQSLAKKICSHSAPEQQARTRAGKTQGSETAGPPKKKRKKTQKKFRKREEKAAEHKAKSLGEKSP
AASGARRPEAAKEEAAWASSAGNPADGLATEPESVFALDVLRQRLHEKIQEARGQGSAKELSPAALAKRRRRKQ
EKDRKKRKRKELRAKEKARKAEEATEAQEVVEATPEGACTEPREPPGLIFNKVEVSEDEPASKAQRRKEKRQVRK
CNLTPLTGRNYRQLLERLQARQSRDELRGQDEGKAQELEAKMKWTNLLYKAEGVKIRDDELLQEALKRKEKRR
QRRWEKRTAGVVEKMQQRQDRRRQNLRRKKAARAERRLLRARKKGRILPQDLERAGLV

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FIGURE 1593

GGCACGAGGGGATGGCAGAGGAGGTGAGGAGGGAGGAAGCGTCCGGAGTGGGGCGGGCCCGGACTCCGACCCCCG
GGGCGCTTCGAGCCCCCAGCTGGTCAACGAGGCACCGCCGCTTCACCCAGGCCAGTAGCCGCCCCCCTCGCGCA
CCCCGGCCCCGCTCACACGCGCGCCCCGAGCGAGCCCCGGGCTCCCCTCGGGCCAGCGTGGCGCAGGGGTCACT
GGTTCTCTCGGGTCTCGGGACAGGTGAGCACCTGATGAAGGCCACGGTCCTGATGCGGCAGCCTGGGCGGGTGC
AGGAGATCGTGGGCGCCCTCCGCAAGGGCGGCGGAGACCGGTTACAGGTGATTTCTGATTTTGACATGACCTTGA
GCAGGTTTGCATATAATGGAAGCGATGCCCTTCTTCTTACAATATTCTGGATAATAGCAAGATCATCAGTGAGG
AGTGTCGGAAGAGCTCACAGCGCTCCTTCACCACTATTACCCAATTGAGATCGACCCACACCGGACCGTCAAGG
AGAAGCTACCTCATATGGTGAATGGTGGACCAAAGCGCACAATCTCCTATGTCAGCAGAAGATTCAGAAGTTTC
AGATAGCCCAGGTGGTTAGAGAGTCCAATGCAATGCTCAGGGAGGGATATAAGACCTTCTTCAACACACTCTACC
ATAACAACATTTCCCTTTTTCATCTTTTCTGCGGGCATTGGTGATATCCTGGAAGAAATTATCCGACAGATGAAAG
TGTTCCACCCCAACATCCACATCGTGTCTAACTACATGGATTTTAATGAAGATGGTTTTCTCCAGGGATTTAAGG
GCCAGCTGATACACACATACAACAAGAACAGCTCTGTGTGTGAGAACTGTGGTTACTTCCAGCAACTTGAGGGCA
AAACCAATGTCATCCTGCTGGGAGACTCTATCGGGGACCTCACCATGGCCGATGGGGTTCTTGGTGTGCAGAACA
TTCTCAAAATTGGCTTCTGAATGACAAGGTGGAGGAGCGGCGGGAGCGCTACATGGACTCCTATGACATCGTGC
TGGAGAAGGACGAGACTCTGGATGTGGTCAACGGGCTACTGCAGCACATCCTGTGCCAGGGGGTCCAGCTGGAGA
TGCAAGGCCCCCTGAAGGCGCAGGCTCCAGCCCGGCCCTGCAGGCCGTGGTGAGGAGGGGCGCCTCCCCAGAGTCTG
CTCCCCCGTGAACACAGAGCAGAGGCCAGGGTGGCCAGCAGTGGCTGGGTCTTCCGCGCCCCCTCCGTCCTCCTT
TCCCTGAGCACCTTCATCACCAGAGGCTTGAAGGAACCCCGCCATGTGGCAGGGCACAGGCACTGTTCTTGGTGA
ACCTTGGACCACAGCATGTCAGTGCTCTAGGGATTGTCTACTCCAGGGATTTTCTTCAAAATTTTAAACATGGG
AAGTTCAACAAATATAATGTGTGAAACAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1594

MTLSRFAYNGKRCPPSSYNILDNSKIISEECRKELTALLHHYYPIEIDPHRTVKEKLPHMVEWWTKAHNLLCQOKI
QKFQIAQVVRESNAMLREGYKTFNTLYHNNIPLFIFSAGIGDILEEIIROMKVFHPNIHIVSNYMDFNEDGFLQ
GFKGQLIHTYNKNSSVCENCGYFQQLEGKTNVILLGDSIGDLTMADGVPGVQNILKIGFLNDKVEERRERYMDSY
DIVLEKDETLDVVNGLLQHILCQGVQLEMQGP

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FIGURE 1595

CTCCGTCTCAAAAAAGATGAAAATAAAATAAAATATATATTTACAGGCCTACAACCTTTTGCCTCAGACTGTTCCC
CTTTTCTAAGGGTATTCAAGTTTTTCACCTTTTAAAGCTTCATATCCTCAGTGCTTGTAGAATGATGAGCTTAGAGG
TACCAGGTCAATTGCAGTTGTTTGCTTAAAGACTTATTGAAATGGTTACTGGCGTAAATACTTGGCCAACCTCAACT
TTATTGCCCTGATCTTTTCCATTTTTGTTTCCACCTTAACCTATAGCAGCTCCTCCAAATGAGGAATGCTGTAA
GTAAGACTCATCAAACAGATTTTAACCATTTTATTATCCTGTGTGTCCTTACATTGCTTCTGTGAGATGTTTTTT
TCTTATCTGAGATGAACTTTTCAGGAGCCTATTTGAACTCCAGACTGGTGTTCCTGGGGCAAAGAGCTATTAGCCAA
ACTGATTCTATGCAGGTGAAGGATGCACTAAAGTTCTCACTTTAGTGAGAACCTTTCTAGCTATTCCAATACAGA
GTTCTTTCTTATAGGGCTATTGATATTGACACCAAATGGAGTGGCTTCTCAGCCTCTTAATGTCTTAAGTAAGTG
CTTAATTTGGAATAGAGAAACCAGTATATTTTAAAAAAGAAAAATATTCTTTGTAGCAACTGTAAATTCTCCCA
TTATAACAGTGAACAGAGCTCCAGGTAATAACGCATAGGCATGTCAGGTTGCATCTGTATATTTGACTACATTAG
TATTAGTGACATCAGGTGGATATAAAAGAAAACCTTGGAAAGAGAACTGCCTTAGCCATGATTTCTGTAGTAGA
CCTATTTATGATTCAATTGCAATTTTCAGATAGGATGTGAACATGGAATTTCAATTGAAAATAGTTTAATTTTTTA
TATAAAAGGTTTTGTATATAATGTGTGTCAGTGACTATTTTCAAATCATTTCATCAAGACACCTTTTTTCTAA
AATAGGCATTGCATACACATATGCACACGTATGTGCATGTGCCACACATTTTTTGTATAATGTTGGGTTTGATT
TAAAAGTGTGTCAAATGTTTTATTTATCTGCAATATAGCAGTGGTTGGCTTTTTTGAATTGAAATTTTGCAT
TGATGCATTGAAATAAGGAAAATTATTTATCTCTGAGCACTAACTTATTTTTGCATATTTCTGTAATATTGCAG
TCCCCAGATCCAGAACATGGGAAGTTAGGGAAAATGTGTGATTTTTGTGTTTTGAATTACTGTCAGAATTACATAC
ACAATTACAACAACTTTTTTTAAAAGACATTTCAATTGTACTGCAAAAATCTGAATATTTATATTTCTTGTTTT
TTCTTTATATGTTTTGCATTTTAATATGTTGAGCCACTGGAAATTTGTAACAGATTAATTTGTTATAGGAGTTTA
AATGTGTTGTCAATTGTCTCCATTGTCTTTGTCCAGAGCCTATTATTATGGAAACAATAAAATTTATTGTGTCAGT
TGCTTTGATTCTT

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FIGURE 1596

MCCHCLHCLCPEPIIMETIKFIVSVALI

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FIGURE 1597

TCTCCACGTGGGTACCGGCGCTCTCGGCGCCCGTAGCCACCCGCCCGCCGGAAGCCGACATCTCGAGTTCTGGCA
GAAGCAATTTGCGCGGCGAGGAGCGGAGCGGCAGGAACCCAATAAGCTGCTTCGCCTCGGAGCTGAAGCCCGTAC
TCAAGATGGCGGCTCCGGGCGGGCGTGGCCAGTGAAGGCGAGGCGCCGCGGGACCATGCGGCGGGCGGCG
GACGAGCGGAGTCCAGAGGACGGAGAAGACGAGGAAGAGGAGGAGCAGTTGGTTCTGGTGGAATTATCAGGAATT
ATTGATTCAGACTTCCTCTCAAATGTGAAAATAAATGCAAGGTTTTGGGCATTGACACTGAGAGGCCCATTCCTG
CAAGTGGACAGCTGTGTCTTTGCTGGGGAGTATGAAGACACTCTAGGGACCTGTGTTATATTTGAAGAAAATGTT
GAACATGCTGATACAGAAGGCAATAATAAAACAGTGCTAAAATATAAATGCCATACAATGAAGAAGCTCAGCATG
ACAAGAACTCTCCTGACAGAGAAGAAGGAAGGAGAAGAAAACATAGGTGGGGTGGAATGGCTGCAAATAAAGGAT
AATGATTTCTCCTATCGACCCAACATGATTTGTAACTTTCTACATGAAAATGAAGACGAAGAAGTGGTAGCTTCA
GCCCCAGATAAATCTTTGGAATTGGAAGAGGAAGAGATTCAAATGAACGACAGTTCAAACCTGAGTTGTGAACAG
GAGAAACCAATGCACCTTGAAATAGAAGATTCTGGTCCTCTTATTGATATACCTTCTGAGACAGAAGGTTCTGTT
TTTATGGAACTCAAATGCTGCCTTAGAAATCACTCTCCTAGATGAAATGTTTCTCATAATAACTTGTCAAGAAC
TTTTTAGAGTTGTTACATAAAAATAATTGCTGCTGTAGCTTGTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1598

MAAAADERSPEDGEDEEEEEQLVLVELSGIIDSDFLSKCENKCKVLGIDTERPILQVDSCVFAGEYEDTLGTCVI
FEENVEHADTEGNNKTVLKYKCHTMKKLSMTRTLLTEKKEGEENIGGVEWLQIKDNDFSYRPNMICNFLHENEDE
EVVASAPDKSLELEEEEIQMNDSSNLSCEQEKPMHLEIEDSGPLIDIPSETEGSVFMETQMLP

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FIGURE 1599A

CGGAGCCTCTCTCGCGCACAAAGTTGTGGAGTCGTTTTTCTCGGAGCAGGGAAGCGGGCAGCAGCAGCCGGCCG
CGGGCTTTCTCCCGCCGAGGGGCGAGGAGGAGCCTCTGGCTCCAGAAGCCGATTGGGGAATCACGGGGAGCGGCG
CCCCCTTCTTTTGGGTCAATTTCTGCAAACGGAAACTCTGTAGCGTTTGGCAAAGTTGGTGCCTGCGCGCCCCCT
TCCAGGTTTGCCTTTGACTGTTTTGTTTTTGGCGGAACTACCAGGCAGGAAGATTGCACAAGTAAGGGGCGTTT
TCAGTCGGGTGTCAANNNNNNNNNNNNNNNNNNNNNNNNNNAAGATTTCGGTTCGTGTCTGCTTCTCCAAGCTTT
ATTTTTTTTTTAAATACATCGCACCACCAAACCTCACACTCGCACACACCCCCGCGGTTACTCCGTGTCAAACCTC
CTAGAGGAGCCCTTGGCCAGCTCGGGGTGCGGCGGTGGCGACCGGCAGGCGAGGAGGCCCGCGGGCAGCAGGTAT
TGATGTCAAGCTGAACCATCGTAGGAAGTTGAAAGCCTTAGAAAGAGGACTTGGTAAAGTTTTTGGATTATCTTG
AAACTCTGGCAAATGGCCAAGTATGGAGAATGAAGCCAGTCCTGACAATGGGCAGAACGAATTCAGTGATAT
CATTAAAGTCCAGATCTGATGAACACAATGACGTACAGAAGAAAACCTTTACCAAATGGATAAATGCTCGATTTTC
AAAGAGTGGGAACCACCCATCAATGATATGTTTCACAGACCTCAAAGATGGAAGGAAGCTATTGGATCTTCTAGA
AGGCCTCAGAGAACATCACTGCCAAAGGAACGTGGTTCCACAAGGGTACATGCCTTAAATAACGTCAACAGAGT
GCTGCAGGTTTTACATCAGAACAATGTGGAATTAGTGAATATAGGGGGAAGTACATTGTGGATGGAAATCACAA
ACTGACTTTGGGGTTACTTTGGAGCATCATTTTGCAGTGGCAGGTGAAAGATGTCATGAAGGATGTCATGTCGGA
CCTGCAGCAGACGAACAGTGAGAAGATCCTGCTCAGCTGGGTGCGTCAGACCACAGGCCCTACAGCCAAGTCAA
CGTCTCAACTTCACCACCAGCTGGACAGATGGACTCGCCTTTAATGCTGTCTCTCCACCGACATAAACTGATCT
CTTCAGCTGGGATAAAGTTGTCAAATGTCAACCAATTGAGAGACTTGAACATGCCTTCAGCAAGGCTCAAACCTTA
TTTGGGAATTGAAAAGCTGTTAGATCCTGAAGATGTTGCCGTTTCAGCTTCTTGACAAGAAATCCATAATTATGTA
TTTAACATCTTTGTTTGGGTGCTACCTCAGCAAGTCACCATAGACGCCATCCGTGAGGTAGAGACACTCCCAAG
GAAATATAAAAAAGAATGTGAAGAAGAGGCAATTAATATACAGAGTACAGCGCCTGAGGAGGAGCATGAGAGTCC
CCGAGCTGAAACTCCCAGCACTGTCACTGAGGTCGACATGGATCTGGACAGCTATCAGATTGCGTTGGAGGAAGT
GCTGACCTGGTTGCTTTCTGCTGAGGACACTTTCCAGGAGCAGGATGATATTTCTGATGATGTTGAAGAAGTCAA
AGACCAGTTTGCAACCCATGAAGCTTTTATGATGGAACAGTGCACACCAGAGCAGTGTGGGCAGCGTCTTGCA
GGCAGGCAACCAACTGATAACACAAGGAACCTGTGCAGACGAAGAAGAAATTTGAGATTCAGGAACAGATGACCCT
GCTGAATGCTAGATGGGAGGCTCTTAGGGTGGAGAGTATGGACAGACAGTCCCGGCTGCACGATGTGCTGATGGA
ACTGCAGAAGAAGCAACTGCAGCAGCTCTCCGCCTGGTTAACTCACAGAGGAGCGCATTCAGAAGATGGAAAC
TTGCCCCCTGGATGATGATGTAAATCTCTACAAAAGCTGCTAGAAGAACATAAAAGTTTGCAAAGTGATCTTGA
GGCTGAACAGGTGAAAGTAAATTCATAACTCACATGGTGGTCATTGTTGATGAAAACAGTGGTGAGAGTGCTAC
AGCTATCCTAGAAGACCAGTTACAGAACTTGGTGAGCGCTGGACAGCAGTATGCCGTTGGACTGAAGAACGCTG
GAATAGGTTACAAGAAATCAATATATTGTGGCAGGAATTATTGGAAGAACAGTGCTTGTGAAAGCTTGGTTAAC
CGAAAAAGAAGAGGCTTTAAATAAAGTCCAGACAAGCAACTTCAAAGACCAAAGGAACCTAAGTGTGAGTGTTCG
ACGCTCTGGCTATTTTGAAGGAAGACATGGAAATGAAGCGTCAAACATTGGATCAGCTGAGTGAGATTGGCCAGGA
TGTGGGACAATTACTTGATAATTCCAAGGCATCTAAGAAGATCAACAGTGAAGTCAAGAGGAAGTCAAGATG
GGATTCTTTGGTTTCAGAGACTAGAAGATTCTCCAACAGGTGACTCAGGCTGTAGCAAAGCTGGGGATGTCTCA
GATTCCTCAGAAGGACCTTTTGGAGACTGTTTCGTGTAAGAGAACAAAGCAATTACAAAAAATCTAAGCAGGAAC
GCCTCCTCCTCCTCCCCAAAGAAGAGACAGATCCATGTGGATATTGAAGCTAAGAAAAAGTTTGATGTCTATAAG
TGCAGAGCTGTTGAACTGGATTTTGAATGGAAAACCTGCCATTACAGACCACAGAGATAAAAGAGTATATGAAGAT
GCAAGACACTTCCGAAATGAAAAGAAGTTGAAGGCATTAGAAAAAGAACAGAGAGAAAGAAATCCCCAGAGCAGA
TGAATTAACCAAACCTGGACAAATCCTTGTGGAGCAAATGGGAAAAGAAAGGCCTTCTACTGAAGAAATAAAAAA
TGTTCTGGAGAAGGTTTTATCAGAATGGAAGAATGTATCTCAACATTTGGAAGATCTAGAAAGAAAGATTTCAGCT
ACAGGAAGATATAAATGCTTATTTCAAGCAGCTTGATGAGCTTGAAAGGTCATCAAGACAAAGGAGGAGTGGGT
AAAACACACTTCCATTTCTGAATCTTCCCGGCGAGTCTTGCCAAGCTTGAAGGATTCCTGTGAGCGGGAATTGAC
AAATCTTCTTGGCCTTACCCCAAATTTGAAATGGCTCGTGCAAGCTGCTCGGCCCTGATGTCTCAGCCTTCTGC
CCCAGATTTTGTCCAGCGGGGCTTCGATAGCTTTCTGGGCCGCTACCAAGCTGTACAAGAGGCTGTAGAGGATCG
TCAACAACATCTAGAGAATGAAGTGAAGGGCCAACCTGGACATGCATATCTGGAAACATTGAAAACACTGAAAGA
TGTGCTAAATGATTGAGAAAATAAGGCCAGGTGTCTCTGAATGTCCTTAATGATCTTGCCAAGGTGGAGAAGGC
CCTGCAAGAAAAAAGACCCCTTGATGAAATCCTTGAGAATCAGAAACCTGCATTACATAAACTTGCAGAAGAAAC
AAAGGCTCTGGAGAAAAATGTTTCATCCTGATGTAGAAAAATTATATAAGCAAGAATTTGATGATGTGCAAGGAAA

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FIGURE 1599B

GTGGAACAAGCTAAAGGTCTTGGTTTCCAAAGATCTACATTGCTTGAGGAAATTGCTCTCACACTCAGAGCTTT
TGAGGCCGATTCAACAGTCATTGAGAAGTGGATGGATGGCGTGAAAGACTTCTTAATGAAACAGCAGGCTGCCCA
AGGAGACGACGCAGGTCTACAGAGGCAGTTAGACCAGTGCTCTGCATTTGTTAATGAAATAGAAAACAATTGAATC
ATCTCTGAAAAACATGAAGGAAATAGAGACTAATCTTCGAAGTGGTCCAGTTGCTGGAATAAAAACTTGGGTGCA
GACAAGACTAGGTGACTACCAAACCTCAACTGGAGAACTTAGCAAGGAGATCGCTACTCAAAAAAGTAGGTTGTC
TGAAAGTCAAGAAAAAGCTGCGAACCTGAAGAAAGACTTGGCAGAGATGCAGGAATGGATGACCCAGGCCGAGGA
AGAATATTTGGAGCGGGATTTTGAGTACAAGTCACCAGAAGAGCTTGAGAGTGCTGTGGAAGAGATGAAGAGGGC
AAAAGAGGATGTGTTGCAGAAGGAGGTGAGAGTGAAGATTCTCAAGGACAACATCAAGTTATTAGCTGCCAAGGT
GCCCTCTGGTGGCCAGGAGTTGACGTCTGAGCTGAATGTTGTGCTGGAGAATTACCAACTTCTTTGTAATAGAAT
TCGAGGAAAGTGCCACACGCTAGAGGAGGTCTGGTCTTGTGGATTGAAGTCTTCACTATTTGGATCTTGAAAC
TACCTGGTTAAACACTTTTGGAAAGAGCGGATGAAGAGCACAGAGGTCTGCCTGAGAAGACGGATGCTGTCAACGA
AGCCCTGGAGTCTCTGGAATCTGTTCTGCGCCACCCGGCAGATAATCGCACCCAGATTCGAGAGCTTGGCCAGAC
TCTGATTGATGGGGGGATCCTGGATGATATAATCAGTGAGAACTGGAGGCTTTCAACAGCCGATATGAAGATCT
AAGTCACCTGGCAGAGAGCAAGCAGATTTCTTTGGAAAAGCAACTCCAGGTGCTGCGGGAAACTGACCAGATGCT
TCAAGTCTTGCAAGAGAGCTTGGGGGAGCTGGACAAACAGCTCACCACATACCTGACTGACAGGATAGATGCTTT
CCAAGTTCACAGGAAGCTCAGAAAATCCAAGCAGAGATCTCAGCCATGAGCTAACCTAGAGGAGTTGAGAAG
AAATATGCGTTCTCAGCCCCCTGACCTCCCCAGAGAGTAGGACTGCCAGAGGAGGAAGTCAGATGGATGTGCTACA
GAGGAAACTCCGAGAGGTGTCCACAAAGTTCAGCTTTTCCAGAAGCCAGCTAACTTCGAGCAGCGCATGCTGGA
CTGCAAGCGTGTGCTGGAATGGCGTGAAAGCAGAACTTCAGTCTGATGTGAAGGACGTAGACCTGACGTCAT
ACAGACGCACCTGGACAAGTGTATGAACTGTATAAACTTTGAGTGAAGTCAAACCTTGAAGTGGAACTGTGAT
TAAACAGGAAGACATATTGTCCAGAAACAGCAAACGGACAACCCAAAAGGGATGGATGAGCAGCTGACTTCCCT
GAAGGTTCTTTACAATGACCTGGGCGCACAGGTGACAGAAGGAAAACAGGATCTGGAAAGAGCATCACAGTTGGC
CCGAAAATGAAGAAAGAGGCTGCTTCTCTCTGAATGGCTTTCTGCTACTGAACTGAATTGGTACAGAAGTC
CACTTCAGAAGGTCTGCTTGGTGACTTGGATACAGAAATTTCTGGGCTAAAAATGTTCTGAAGGATCTGGA
GAGAAAAGCTGATTTAAATACCATCACAGAGAGTAGTGCTGCCCTGCAAACTTGATTGAGGGCAGTGAGCCTAT
TTTAGAAGAGAGGCTCTGCGTCCCTAACGCTGGGTGGAGCCGAGTTCTGACCTGGACTGAAGATTGGTGAATAC
CTTGATGAACCATCAGAACCAGCTAGAAATATTTGATGGGAACGTGGCTCACATAAGTACCTGGCTTTATCAAGC
TGAAGCTCTATTGGATGAAATTGAAAAGAAACCAACAAGTAAACAGGAAGAAATTGTGAAGCGTTTAGTATCTGA
GCTGGATGATGCCAACCTCCAGGTTGAAAATGTCCGCGATCAAGCCCTTATTTTGATGAATGCCCGTGGAAGCTC
AAGCAGGGAGCTTGTAGAACCAGGTTAGCTGAGCTGAATAGGAACCTTTGAAAAGGTGTCTCAACATATCAAAAG
TGCCAAATTGCTAATTGCTCAGGAACCATTATACCAATGTTTGGTCAACCTGAAACATTTGAAACTGGTGTGCC
TTTCTCTGACTTGGAAAAATTAGAAAATGACATAGAAAATATGTTAAAAATTTGTGGAAAAACACTTGGAAATCCAG
TGATGAAGATGAAAAGATGGATGAGGAGAGTGCCAGATTGAGGAAGTTCTACAAAGAGGAGAAGAAATGTTACA
TCAACCTATGGAAGATAATAAAAAAGAAAAGATCCGTTTGCAATTATTACTTTTGCATACTAGATACAACAAAAT
TAAGGCAATCCCTATTCAACAGAGGAAAATGGGTCAACTTGCTTCTGGAATTAGATCATCACTTCTTCTACAGA
TTATCTGGTTGAAATTAACAAAATTTTACTTTGTCATGGATGATGTTGAATTATCGCTTAATGTTCCAGAGCTCAA
CACTGCTATTTACGAAGACTTCTCTTTTTCAGGAAGACTCTCTGAAGAATATCAAAGACCAACTGGACAAACTTGG
AGAGCAGATTGCAGTCATTCATGAAAAACAGCCAGATGTATCCTTGAAGCCTCTGGACCTGAAGCCATTGAGAT
CAGAGATACACTTACTCAGCTGAATGCAAAATGGGACAGAATTAATAGAATGTACAGTGATCGGAAAGGTTGTTT
TGACAGGGCAATGGAAGAATGGAGACAGTTCCATTGTGACCTTAATGACCTCACACAGTGGAATAACAGAGGCTGA
AGAATTACTGGTTGATACCTGTGCTCCAGGTGGCAGCCTGGACTTAGAGAAAGCCAGGATACATCAGCAGGAAC
TGAGGTGGGCATCAGCAGCCACCAGCCAGTTTTCAGCAGCTAAACCGAAGTGGGGATGGGATTGTGCAGAACT
CTCCCAGGCAGATGGAAGCTTCTTGAAAGAAAACTGGCAGGTTTAAACCAACGCTGGGATGCAATTGTTGCAGA
AGTGAAGGATAGGCAGCCAAGGCTAAAAGGAGAAAGTAAGCAGGTGATGAAGTACAGGCATCAGCTAGATGAGAT
TATCTGTTGGTTAACAAAGGCTGAGCATGCTATGCAAAAGAGATCAACCACCGAATTGGGAGAAAACCTGCAAGA
ATTAAGAGACTTAACTCAAGAAATGGAAGTACATGCTGAAAACTCAAATGGCTGAATAGAACTGAATTGGAGAT
GCTTTTCAGATAAAAGTCTGAGTTTACCTGAAAGGGATAAAATTTTCAGAAAGCTTAAGGACTGTAATATGACATG
GAATAAGATTTGCAGAGAGGTGCCTACCACCCTGAAGGAATGCATCCAGGAGCCAGTTCTGTTTCACAGACAAG

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FIGURE 1599C

GATTGCTGCTCATCCTAATGTCCAAAAGGTGGTGCTAGTATCATCTGCGTCAGATATTCCTGTTTCAGTCTCATCG
TACTTCGGAAAATTTCAATTCCTGCTGATCTTGATAAACTATAACAGAACTAGCCGACTGGCTGGTATTAATCGA
CCAGATGCTGAAGTCCAACATTGTCACTGTTGGGGATGTAGAAGAGATCAATAAGACCGTTTCCCGAATGAAAAT
TACAAAGGCTGACTTAGAACAGCGCCATCCTCAGCTGGATTATGTTTTTACATTGGCACAGAATTTGAAAAATAA
AGCTTCCAGTTCAGATATGAGAACAGCAATTACAGAAAAATTGGAAAGGGTCAAGAACCAGTGGGATGGCACCCA
GCATGGCGTTGAGCTAAGACAGCAGCAGCTTGAGGACATGATTATTGACAGTCTTCAGTGGGATGACCATAGGGA
GGAGACTGAAGAACTGATGAGAAAATATGAGGCTCGACTCTATATTCTTCAGCAAGCCCCGACGGGATCCACTCAC
CAAACAAATTTCTGATAACCAAATACTGCTTCAAGAACTGGGTCTTGAGATGGTATCGTCATGGCGTTTCGATAA
CGTCTGCAGAAACTCCTGGAGGAATATGGGAGTGATGACACAAGGAATGTGAAAGAAACCACAGAGTACTTAAA
AACATCATGGATCAATCTCAAACAAAGTATTGCTGACAGACAGAACGCCTTGAGGCTGAGTGGAGGACGGTGCA
GGCCTCTCGCAGAGATCTGGAAGAACTTCTGAACTGGATCCAAGAAGCAGAGACCACAGTGAATGTGCTTGTGGA
TGCCTCTCATCGGGAGAATGCTCTTCAGGATAGTATCTTGCCAGGGAAGTCAACAGCAGATGCAGGACATCCA
GGCAGAAATTGATGCCCACAATGACATATTTAAAAGCATTGACGGAAACAGGCAGAAGATGGTAAAAGCTTTGGG
AAATTCTGAAGAGGCTACTATGCTTCAACATCGACTGGATGATATGAACCAAAGATGGAATGACTTAAAAGCAAA
ATCTGCTAGCATCAGGGCCCCATTTGGAGGCCAGCGCTGAGAAGTGGAAACAGGTTGCTGATGTCCTTAGAAGAACT
GATCAAATGGCTGAATATGAAAGATGAAGAGCTTAAGAAACAAATGCCTATTGGAGGAGATGTTCCAGCCTTACA
GCTCCAGTATGACCATTGTAAGGCCCTGAGACGGGAGTTAAAGGAGAAAGAATATTCTGTCTGAATGCTGTCGA
CCAGGCCCGAGTTTTCTTGGCTGATCAGCCAATTGAGGCCCTGAAGAGCCAAGAAGAAACCTACAATCAAAAAC
AGAATTAACCTCTGAGGAGAGAGCCCCAAAAGATTGCCAAAGCCATGCGCAAACAGTCTTCTGAAGTCAAAGAAAA
ATGGGAAAGTCTAAATGCTGTAAC TAGCAATTGGCAAAGCAAGTGGACAAGGCATTGGAGAACTCAGAGACCT
GCAGGGAGCTATGGATGACCTGGACGCTGACATGAAGGAGGCAGAGTCCGTGCGGAATGGCTGGAAGCCCGTGGG
AGACTTACTCATTGACTCGCTGCAGGATCACATTGAAAAATCATGGCATTTAGAGAAGAAATGCACCAATCAA
CTTTAAAGTTAAAACGGTGAATGATTTATCCAGTCAGCTGTCTCCACTTGACCTGCATCCCTCTCTAAAGATGTC
TCGCCAGCTAGATGACCTTAATATGCGATGGAACTTTTACAGGTTTCTGTGGATGATCGCCTTAAACAGCTTCA
GGAAGCCCACAGAGATTTTGGACCATCCTCTCAGCATTTTCTCTTACGTACAGTCCAGCTGCCGTGGCAAAGATC
CATTTACATAATAAAGTGCCCTATTACATCAACCATCAAACACAGACCACCTGTTGGGACCATCCTAAAATGAC
CGAACTCTTTCAATCCCTTGCTGACCTGAATAATGTACGTTTTTCTGCCTACCGTACAGCAATCAAAATCCGAAG
ACTACAAAAAGCACTATGTTTGGATCTCTTAGAGTTGAGTACAACAAATGAAATTTTCAAACAGCACAAAGTTGAA
CCAAAATGACCAGCTCCTCAGTGTTCCAGATGTCATCAACTGTCTGACAACAACCTTATGATGGACTTGAGCAAA
GCATAAGGACCTGGTCAACGTTCCACTCTGTGTTGATATGTTGCTCAATTGGTTGCTCAATGTCTATGACACGGG
TCGAACTGGAATAATTAGAGTGCAGAGTCTGAAGATTGGATTAATGTCTCTCTCCAAAGGTCTCTTGAAGAAAA
ATACAGATATCTCTTTAAGGAAGTTGCAGGGCCAACAGAAATGTGTGACCAGAGGCAGCTGGGCCTGTTACTTCA
TGATGCCATCCAGATCCCCCGGCAGCTAGGTGAAGTAGCAGCTTTTGGAGGCAGTAATATTGAGCCTAGTGTTCCG
CAGCTGCTTCCAACAGAATAACAATAAACCAGAAATAAGTGTGAAAGAGTTTATAGATTGGATGCATTTGGAACC
ACAGTCCATGGTTTGGCTCCCAGTTTTACATCGAGTGGCAGCAGCGGAGACTGCAAAACATCAGGCCAAATGCAA
CATCTGTAAAGAATGTCCAATTGTCGGGTTCAAGGTATAGAAGCCTTAAGCATTTTAACTATGATGTCTGCCAGAG
TTGTTTCTTTTCGGGTGCAACAGCAAAAGGTCACAAATTACATTACCCAATGGTGAATATTGTATACCTACAAC
ATCTGGGGAAGATGTACGAGACTTCACAAAGGTACTTAAGAACAAGTTCAGGTGCAAGAAGTACTTTGCCAAACA
CCCTCGACTTGTTTACCTGCCTGTCCAGACAGTTCTTGAAGGTGACAACCTTAGAGACTCCTATCACACTCATCAG
TATGTGGCCAGAGCACTATGACCCCTCACAATCTCCTCAACTGTTTCATGATGACACCCATTCAAGAATAGAACA
ATATGCCACACGACTGGCCAGATGGAAAGGACTAATGGGTCTTTTCTCACTGATAGCAGCTCCACCACAGGAAG
TGTGGAAGACGAGCAGCCCTCATCCAGCAGTATTGCCAAACACTCGGAGGAGAGTCCCCAGTGAGCCAGCCGCA
GAGCCCAGCTCAGATCCTGAAGTCAGTAGAGAGGGAAGAAGTGGAGAAGTGGAGAGGATCATTGCTGACCTGGA
GGAAGAACAAAGAAATCTACAGGTGGAGTATGAGCAGCTGAAGGACCAGCACCTCCGAAGGGGGCTCCCTGTCCG
TTCACCGCCAGAGTCGATTATATCTCCCCATCACACGTCTGAGGATTCAGAACTTATAGCAGAAGCAAACTCCT
CAGGCAGCACAAAGGTTCGGCTGGAGGCTAGGATGCAGATTTTAGAAGATCACAATAAACAGCTGGAGTCTCAGCT
CCACCGCTCCGACAGCTGCTGGAGCAGCTGAATCTGATTCCCGAATCAATGGTGTTCCTCCATGGGCTTCTCC
TCAGCATTCTGCACTGAGCTACTCGCTTGATCCAGATGCCTCCGGCCACAGTTCCACCAGGCAGCGGGAGAGGA

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FIGURE 1599D

CCTGCTGGCCCCACCGCACGACACCAGCACGGATCTCACGGAGGTCATGGAGCAGATTACAGCACGTTTCCATC
TTGCTGCCCAAATGTTCCAGCAGGCCACAGGCAATGTGAAGTATTCATCCGGCCAACCAATGTTTCCTGACGTA
CAGTGTTGCCCTTTTCAGCAAATGCCAATTCCAAGTTCATTAAATCAGAAGCTCCATGGCTCCTTGGCCACGA
TGTTGAGTGCTGACTGTGTGTTCTACTGAAAGAGTAAACACTGACTATCCAAAGAGAAATGGATATTTGTTTT
TATAATAACCATATATTATTGTTTTCTTCTTCCCTTTCTATGCAAGTGTAATTAATGAACAGAGAGGTATTTGG
AAATGGTAATACATTTGTACGGATTTGTATAATGTATACAGCATTGGGAAAGTGGGTGGGGGCTTTCTAATATG
ATACCGTCTTTTTAATAACTATGACAAAGCTTACATAAGAATTAGAAGACCCTTTACATTTTACATTCTTCT
GCTGTTTCATATTAACCTTGCACAATTACTTCATTTTTTCTTTGACTCTTTTACCACAATGTTTGGTTATTTATA
ATTTATCAGCCATATGTTTATCAGCCATATAACCAACTAGATCCCAAATAGATCCATGTATTTGTTTCCGTGATT
TGGCCACATTAATAAATTCATAAATTTCAATCAAATATCTTATATATACACACATATGGTTTAAAGCTACAGCCCT
GTGTATGCCGTTTAACTTTATTTGACGTTGCCCACTTACTTCTTTGCTGACCACTTGGATAACCGTAATAAAAT
CCTATAAGCCTAAATGGCATTCTTTTGGGATATTTTTCTGCAATTTTATTCCCTTTTATATAAGTAGGAATTA
ATTATTTATTTTATGCTTAATCTATTTGATAAAGAAGACTACATTATAATAATCTCAAAGATCATATTACCAA
GGTTGCCCACTTGAGCATATTTTCATTTTGACACAGAAACAAAATTTAGTACAACCTTTCTAGTTCCCATGTCT
TGATTTTCATCATTACATGCACAGCAGACCTTTACCTATTGTGATACCAGAACACATCATTGTCTTTGGTTCCCT
TCAAAGAGAATTTTATTGTTGTTTTGTATTTTCAAGTCCTTAATAGTTCTTGAAACTCCTAGTTGTTTTCTTGTT
GAAAGCAGACACACATTTAGTGCACGGCTTATTTTACCTTTGCGGTGAAAGATCAGATGTTTTATACCCTTCAC
TTGATCAATATATTTGGAAAGAATGTTTATCAAAGTCTATGTCACTGCTTCTACAGAAGAATGAAATTAATGCT
TAGGTGATGGTACCTCCACCTACATCTTTTGTAGTGCATTCAATTATGTATTTGGTTTAGCTTCTGATTTAACA
TTTAATTGATTTCAGTTTAAACATGTTACTTAATTAGCAATGTAGAGGAACCAAAAAAGGTGAAAATAATATGT
TTTGATTCAAACCTAAAGACATAAAACATAAAGACATTTTAACTTTGGGTCTCTTTAGCTGGGATCTGGCCAG
AAGGAGGCTTAAAGTTAGAAATTGCTATTATTTTAGAATAGGTGGGTGGGTGGGGGGCAAGGGTGTCTATTTG
CAGCAGAGATATTTTGAAGAAGAAAATTGTTTTATATAAAAAGGAAAGCCATGACCACCTTTCTACCTCAGAT
CCATCTTCATCCATTGCATTGGAACTGCTTTATGCTGCTGCAGTCTGCAAAGTCTAGAGCTTTTATCAGGCCAT
GTCATACCCAAGAAAGCACCTATTTAAAGAAAAACAATTCCTGAGCTCTCAACTCCAAGTTGTAGATTTGGTG
TCTTCCTTGTTCTTACTTTAAAAAGTCATGTGTTAATTTTTTTCTGCCTGTATTTGTATGCAAATGTCCTCTA
TCTGCTATTAAAGAAAAGCTACGTAAACACTACATTGTAACCTTCTAAGTAATAATAATAAAAAAGAAATATAT
TGCAGTAACAATGGGAAGTAAGTATGTAGTTCTTTGAAATATGTGGTAAAGAACTAATCACAGACTATCATCTA
ATCTGGTTACATATTGTATTTTTCATCCTGAATAAAAGTAATTTTAACTAAAAAAATCTATGTCGGGTGCGG
AGAAAGAGGTAATGAAATGGCAGGAATTCAGATATCAGCTTATCATACC

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FIGURE 1600

MAKYGEHEASPDNGQNEFSDI I KRSRDEHNDVQKKTF TKWINARF SKSGKPP INDMFTDLKDGRKLLDLLEGLTG
TSLPKERGSTRVHALNNVNRVLQVLHQNNVELVNIGGTDIVDGNHKLTLGLLWSI I LHWQVKDVMKDVMSDLQQT
NSEKILLSWVRQTTTPYSQVNVLNFTTTSWTDGLAFNAVLHRHKPDLSWDKVKMSP IERLEHAF SKAQTYLGIE
KLLDPEDVAVQLPDKKSI IMYLTSLFEVLPQQVTIDAIREVETLPRKYKKECEEEA INIQSTAPEEEHESPR AET
PSTVTEVMDLDSYQIALEEVL TWLLSAEDTFQEQQDDISDDVEEVKDQFATHEAFMMELTAHQSSVGSVLQAGNQ
LITQGTLSDEEEFEIQEQMTLLNARWEALRVESMDRQSR LHDVLMELQKKQLQQLSAWLT L TEERI QKMETCPLD
DDVKS LQK LLEE HKS LQSDLEAEQVKVNSLTHMVVIVDENS GESATAILEDQLQKLGERWTAVCRWTEERWNR LQ
EINILWQELLEEQCLLKAWLTEKEEALNKVQTSNFKDQKELSVSVRR LAILKEDMEMKRQTL DQLSEIGQDVGQL
LDNSKASKKINS DSEELTQRWDSLVRLEDSSNQVTQAVAKLGMSQIPQKDLLETVRVREQAITKSKQELPPPP
PPKKRQIHVDIEAKKKFDAISAELLNWILKWKTAIQTTEIKEYMKMQDTSEMKKKLKALEKEQRERIPRADELNQ
TGQILVEQMGEGLPTEEIKNVLEKVSSEWKNVSQHLEDLERKIQLQEDINAYFKQLDELEKVIKTKEEWVKHTS
ISESSRQSLPSLKDSCQRELTNLLGLHPK IEMARASCSALMSQPSAPDFVQRGFDSFLGRYQAVQEAVEDRQQHL
ENELKGQPGHAYLET LTKTLKDV LNDSENKAQVSLNV LNDLAKVEKALQEKKT LDEILENQKPALHKLAETKALE
KNVHPDVEKLYKQEFDDVQGWK NKLKVLVSKDLHLLEEIALTLRAFEADSTVIEKWM DGVKDFLMKQQAQGD DA
GLQRQLDQCSAFVNEIETIESS LKNMKEIETNLRSGPVAGIKTWVQTRLGDYQTQLEKLSKEIATQKSRLSESQE
KAANLKKDLAEMQEWMTQAE EYLERDFEYKSPEELES AVEEMKRAKEDVLQKEVRVKILKDN IKLLAAKVP SGG
QELTSELNVVLENYQLLCNRIRGKCHTLEE VWSCWIELLHYLDLETTW LNTLEERMKSTEVLPEKTD AVNEALES
LESVLRHPADNRQTIRELGQTLIDGGILDDI ISEKLEAFNSRYEDLSHLAESKQISLEKQLQVLRET DQMLQVLQ
ESLGELDKQLTTYLTDRIDAFQVPQEAQKIQAEISAHETLEELRRNMRSQPLTSPE SRTARGGSQMDVLQRKL R
EVSTKFQLFQKPANFEQRMLDCKRVLDGVKAELHVLVDVKDVPDVIQTHLDKCMKLYKTLSEVKLEVETVIKTGR
HIVQKQQT DNP KGMDEQLTSLKVLYNDLGAQVTEGKQDLERASQLARKMKKEAASLSEWLSATETELVQKSTSEG
LLGDL DTEISWAKNV LKDL EKRKADLNTITESSAALQN LIEGSEPILEERLCVLNAGWSRVRTWTEDWCNTLMNH
QNQLEIFDGNVAHISTWLYQAEALLDEIEKKPTSKQEEIVKRLVSELDDANLQVENVRDQALILMNARGSSSREL
VEPKLAELNRNF EKVSQHIKSAKLLIAQEPLYQCLVTTTETFTGVPFSDLEKLENDIENMLKFVEKHLESSDEDE
KMDEESAQIEEVLQRGEEMLHQPMEDNKKEKIRLQ LLLLHTRYNKIKAIP IQQRKMGLASGIRSSLLPTDY LVE
INKILLCMDDVELSLNP ELNTAIYEDFSFQEDSLKNIKDQLDKLGEQIAVIEHKQPDVILEASGPEAIQIRDTL
TQLNAKWDRINRMYS DRKGCDFRAMEEWRQFHCDLNDLTQWITEAEELLVDTCAPGGSLDLEKARIHQQELEVGI
SSHQPSFAALNRTGDGIVQKLSQADGSFLKEKLAGLNQRWDAIVA EVKDRQPR LKGESKQVMKYRHQLDEI ICWL
TKAEHAMQKRSTTELGENLQELRDLTQEME VHA EK LKWLNRTELEMLS DKSLSLPERDKISESLRTVNMTWNKIC
REVPTTLKEC IQEPSSVSQTRIAAHPNVQKVVLVSSASDIPVQSHRTSEISIPADLDKTITELADWLVLIDQMLK
SNIVTVGDVEEINKTVSRMKITKADLEQRHPQLDYVFTLAQNLKNKASSSDMRTAITEKLERVKNQWDGTQH GVE
LRQQQLEDMIIDSLQWDDHREETEELMRKYEARLYILQQARRDPLTKQISDNQILLQELGPGDGIVMAFDNV LQK
LLEEYGSDDTRNVKETTEYLYKTSWINLKQSIADRQNALEAEWRTVQASRRDLENFLKWIQEAETT VNV LVDASHR
ENALQDSILARELKQMQD IQAEIDA HNDIFKSIDGNRQKMKV KALGNSE EATMLQHRLDDMNQRWNDL KAKSASI
RAHLEASA EKWNRL LMSLEELIKWLN MKDEELKKQMPIGGDVPALQLQYDHCKALRRELKEKEYSVLNAVDQARV
FLADQPIEAP EEP RRNLQSKTELTP EERAQKIAKAMRKQSSEVKEK WESLNAVTSNWQKQVDKALEKL RDLQ GAM
DDL DADMKEAESVRNGWKPVGDLLIDSLQDHIEKIMAFREEIAPINFVKVTVNDLSSQLSPDL LHP SLKMSRQLD
DLNMRWKLLQVSVDDR LKQLQEAHRDFGPSSQHFLSTSVQLPWQRSISHNKVPYYINHQTQTT CWDHPKMT ELFQ
SLADLNNVRFSAYRTAIKIRRLQKALCLDLELSTTNEIFKQHKLNQNDQLLSVPDVINCLTTTTYDGLEQMHKDL
VNVPLCVDMLCNWLLNVYDTGRTGKIRVQSLKIGLSLSKGLLEEKYRYLFKEVAGPT EMC DQRQLGLLLHDAIQ
IPRQLGEVA AF GGSNI EPSVRSCFQQNNNKPEISVKEFIDWMHLEPQSMVWLPVLHRVAAETA KHQAKNICKE
CPIVGFRYRSLKHFN YDVCQSCFFSGRTAKGKHLHYPMVEYCIPTTSGEDVRDFTKVLKNKFRSKKYFAKHPRLG
YLPVQTVLEGDNLETPITLISMWPEHYDPSQSPQLFHDDTHSRIEQYATRLAQMERTNGSFLTDSSSTTG SVEDE
HALIQYQCQTLGGESPVSQPQSPAQILKSVEREER GELERI IADLEEEQRNLQVEYEQLKDQHLRRGLPVGSPPE
SII SPHHTSEDS ELIAEAKLLRQHKGRLEARMQILEDH NKQLESQLHRLRQLLEQPESDSRINGVSPWAS PQHSA
LSYSLDPDASGPQFHQAAGEDLLAPPHDTSTDLTEVMEQIHSTFPSCCPNVPSRPQAM

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FIGURE 1601A

CGCCCGGCCCCCTCCCCGGCGCCGGCCACGGGAGGCGGTGATGCGGGCGCGGGCGGCCTCGGCTGCGCCGAGAG
CGGAGACACAGGCTCAAGATGGCAGATTCCGACTGAGGCTGGGGGGGCCGAGCTCGCGCGCCGCTTTCCCGTCCC
CGTGGCCATGAACCGCGGACACCCCGGCCCGGATGCGCCCCGTGTACGAAGGTATGGCCTCACATGTGCAAGTTT
TCTCCCTCACACCCTTCAATCAAGTGCCTTCTGTAGTGTGAAGAACTGAAAATAGAGCCGAGTTCCAAGTGGG
GACTGGGTACGGCTCCACAGCAAAGTGTATAGCCAGAGCAAGAACATCCCCCTGTGCGAGCCAGCCACCA
GTGAGCACCTCCTTGCCGGTCCCAAACCCAAGCCTACCTTACGAGCAGACCATCGTCTTCCCAGGAAGCA
GACATCGTGGTCACCTCAGCAAGCAGCACTTCTGTACCAGGCAAGTCTCGGCGGACCACACAACCTAA
GCTGCAAGCACTGTGAGCCTCCTTGATACCTACCAAAAATGTGGACTCAAGCGTAAGAGCGAGGAGATCGAGA
AAGCAGCGTGCAGATCATCGAGGAGCATCCACCCATGATTGAGAATAATGCAAGCGGGGCCACTGTGCCA
GACACGCTCTACTGCCACCTCCAAAAACAGCGGCTCCAACAGCGAGGGCGACTATCAGCTGGTGCAGCATG
CTGTGCTCCATGACCAACACCTACGAGGTCTTAGAGTTCTTGGGCCGAGGGACGTTTGGGCAAGTGGTCA
CTGGAAACGGGGACCAATGAGATCGTAGCCATCAAGATCCTGAAGAACCACCCATCCTATGCCCGACAAG
AGATTGAAGTGAGCATCCTGGCCCGGTTGAGCAGGAGAGTGCCGATGACTATAACTTCGTCCGGGCTACG
GCTTCCAGCACAAGAACCACACGTGCTTGGTCTTCGAGATGTTGGAGCAGAACCTCTATGACTTTCTGAAGC
AAAACAAGTTTAGCCCCCTTGCCCCCAAATACATTTCGCCAGTTCTCCAGCAGGTAGCCACAGCCCTGATGAAAC
TCAAAGCCTAGGTCTTATCCACGCTGACCTCAAACCAGAAAACATCATGCTGGTGGATCCATCTAGACAACCAT
ACAGAGTCAAGGTTCATCGACTTTGGTTTCAGCCAGCCACGTTCTCAAGGCTGTGTGCTCCACCTACTTGCAGTCCA
GATATTACAGGGCCCCCTGAGATCATCCTTGGTTTACCATTTTGTGAGGCAATTGACATGTGGTCCCTGGGCTGTG
TTATTGCAGAATTGTTCTGGGTTGGCCGTTATATCCAGGAGCTTCCGGAGTATGATCAGATTCCGTATATTTTAC
AAACACAGGGTTTGCTGCTGAATATTTATTAAGCGCCGGGACAAAGACAACCTAGGTTTTTCAACCGTGACACGG
ACTACCATATCCTTTGTGGAGACTGAAGACACCAGATGACCATGAAGCAGAGACAGGGATTAAAGTCAAAGAAG
CAAGAAAGTACATTTTCAACTGTTTAGATGATATGGCCCAGGTGAACATGACGACAGATTGGAAGGGAGCGACA
TGTTGGTAGAAAAGGCTGACCGGCGGGAGTTCAATTGACCTGTTGAAGAAGATGCTGACCATTGATGCTGACAAGA
GAATCACTCCAATCGAAACCCTGAACCATCCCTTTGTACCATGACACACTTACTCGATTTTCCCCACAGCACAC
ACGTCAAATCATGTTTCCAGAACATGGAGATCTGCAAGCGTCGGGTGAATATGTATGACACGGTGAACCAGAGCA
AAACCCCTTTCATCACGCACGTGGCCCCCAGCACGTCCACCAACCTGACCATGACCTTTAACAACCAGCTGACCA
CTGTCCACAACCAGCCCTCAGCGGCATCCATGGCTGCAGTGGCCCAGCGGAGCATGCCCTGCAGACAGGAACAG
CCCAGATTTGTGCCGGCCTGACCCGTTCCAGCAAGCTCTCATCGTGTGTCCCCCGGCTTCCAAGGCTTGCAGG
CCTCTCCCTCTAAGCAGCTGGCTACTCGGTGCGAATGGAATAAGCAGTTCCCATCGTCACTCAAGCCCCAGGAG
CTCAGCCTCTTCAGATCCAACCAGGTCTGCTTGCCAGCAGGCTTGCCCAAGTGGGACCCAGCAGATCCTGCTTC
CCCCAGCATGGCAGCAACTGACTGGAGTGGCCACCCACACATCAGTGCAGCATGCCACCGTGATTCCCAGAGCCA
TGGCAGGCACCCAGCAGCTGGCGGACTGGAGAAATACGCATGCTCACGGAAGCCATTATAATCCCATCATGCAGC
AGCCTGCACTATTGACCGGTTCATGTGACCCTTCCAGCAGCACAGCCCTTAAATGTGGGTGTGGCCACGTGATGC
GGCAGCAGCCAACCAGCACCACCTCCTCCCGGAAGAGTAAGCAGCACCAGTCATCTGTGAGAAATGTCTCCACCT
GTGAGGTGTCCTCCTCTCAGGCCATCAGCTCCCCACAGCGATCCAAGCGTGTCAAGGAGAACACACCTCCCCGCT
GTGCCATGGTGCACAGTAGCCCGGCTGCAGCACCTCGGTACCTGTGGGTGGGGCGACGTGGCCTCCAGCACCA
CCCGGGAACGGCAGCGGCAGACAATTGTCATTCCCGACACTCCAGCCCCACGGTCAGCGTCATCACCATCAGCA
GTGACACGGACGAGGAGGAGGAACAGAAACAGCCCCCACCAGCACTGTCTCCAAGCAAAGAAAAACGTCTATCA
GCTGTGTCACAGTCCACGACTCCCCCTACTCCGACTCCTCCAGCAACACCAGCCCCCTACTCCGTGCAGCAGCGTG
CTGGGCACAACAATGCCAATGCCTTTGACACCAAGGGGAGCCTGGAGAATCACTGCACGGGGAACCCCCGAACCA
TCATCGTGCCACCCCTGAAAACCCAGGCCAGCGAAGTATTGGTGGAGTGTGATAGCCTGGTGCCAGTCAACACCA
GTCACCACTCGTCTCTTACAAGTCCAAGTCTCCAGCAACGTGACCTCCACCAGCGGTCACTCTTCAGGGAGCT
CATCTGGAGCCATCACCTACCGGCAGCAGCGCGGGCCCCCACTTCCAGCAGCAGCAGCCACTCAATCTCAGCC
AGGCTCAGCAGCACATCACACGACCGCACTGGGAGCCACCGAAGGCAGCAGGCCTACATCACTCCCACCATGG
CCCAGGCTCCGTACTCCTTCCCGCACAAACAGCCCCAGCCACGGCACTGTGACCCCGCATCTGGCTGCAGCCGCTG
CCGCTGCCCACCTCCCCACCCAGCCCCACCTCTACACCTACACTGCGCCGGCGGGCCCTGGGCTCCACCGGCACCG
TGGCCACCTGGTGGCTCGCAAGGCTCTGCGCGCCACACCGTGCAGCACACTGCCTACCCAGCCAGCATCGTCC
ACCAGGTCCCCGTGAGCATGGGCCCCCGGCTCTGCCCTCGCCACCATCCACCCGAGTCAGTATCCAGCCCAAT

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FIGURE 1601B

TTGCCACCAGACCTACATCAGCGCCTCGCCAGCCTCCACCGTCTACACTGGATACCCACTGAGCCCCGCCAAGG
TCAACCAGTACCCTTACATATAACACTGGAGGGGAGGGTGGGAGGGAGGGAGGAGAGAATGGCCCGAGGGAGG
AGGGAGAGAAGGAGGGAGGCGCTCCTGGGACCGTGGGCGCTGGCCTTTTATACTGAAGATGCCGCACACAAACAA
TGCAAACGGGGCAGGTGCGGGGGGGGGGGGGGCGAGAGGGCAGGGGGACGGGGTCTGGGACACCAGTGAAACTTGAA
CCGGGAAGTGGGAGGACGTAGAGCAGAGAAGAGAACATTTTAAAGGAAGGGATTAAAGAGGGTGGGAAATCTA
TGGTTTTTATTTAAAAAAGGAAAAGGGAAAAAAGGTCAATAACAAAAAACCAGCTCAAGAACCATTCT
ACGCCAACTGGAAAGGAGAAGAGAGCAACAGGAAGATTCCAGAAACGGGGGGCCCCAGTTTTTGAAGAACTTTA
TGAACTTTTCAAAGATTATTTTCATATGGCAGCAAGTGATACGGAAGACTGCTGTCTAGGGACACCTGATATGGAA
ATCAAATAGATTTTTAATTAATTGAACATAAGATTAGGGATTTTTCCAGAACTCGAAAGGGTCAACAGCCCTCC
AGAATGTCTGGGCTGCAGCCTGAGGAGGCTGATGTTTGGAGCTGGTGTGGGATTGGCGAAGCCCAGTCCGGGCTCC
CTAGTCAGGAAAGACGGGGGACGGCCAGGCTGCTGGAAGGCCCCCGGGGGCGCGGGGCGAGTTTTCTTTTCTGA
GCACTCTGGATAAATCCCTAAGCAACGTTGTTTCTCAAATGTCTAATAATGTGTGTTGCAAACCTTTAGGTTTT
TTTCTTTTCTGAAAATGTATTTTCTCTTTGAATCCACCCCTAGTCGCGTAGCGTAGGGCTAGCGGTCTGCACAGA
CACCCCTAGTAGAATGTAGCACTCAGCACCCCTGTCTCCTACCTTGTGTTCAACTCCAATGATACCAATAGAATAT
TCCTCAATGTAATTGCACAAAAAAGCGATATAACATAGGCATGTAACCAATGTGGCGGTGCAGGTGTGCGGGT
GAGCGAGCACGTGTGGGTGTGCACGCGCGCCCTCCCCGCTGGCCCTCGGCGCGGCCACCCCTAGCTGGCGCAGT
CTTGACACTGCATCCTTCCCTCCTAGTGCCTTACCGAGCGACAGACGCGGCGTGAGGGTTTACTTCCACTGGTAC
TCCAAGAACTGAGGCTAGTCAGACACAATCTCAGCTCTTCTGTTGTGCTGTTGTAACAGTTTACGCTGGCCTTT
TTTTTTTCTTTTTCTTTTTCTTTTTTAAATGTTAATGCCCGTTGTCTTCTTGGGCTGTTTGCTAGCGGAAGGAT
GCCAGGGAAGCCAGCAGGAGCTAGGAGAGAGTCCGTGGATCTCGAAAGAAATATGGGAGACAGATGCCCGGCGGG
TGCGTCTGGAGATGGGGACGGCGGGAGTTGAGTTGTGGCAGTAGTTGAGTTGTAATTTGTGGGCGGAGGCCCAGA
GAGACTCCCCACCCCTTCACCCTGCCCCACTCTGTCCCCAGTTCGCCCATTTGTGAGGCCAGAGGTTTCCGGACT
GTTGGCCTCGCCAGGCAGCCGTCTCCCGCCCCAGGCGGCATCCCCAGTCCCTCCCGCCTCCACGAGAGCCTGGA
GCTCTCAGCCTCGCCCGGGCTCCACTCTCTCCTCCGGCTCCCTGGGCTGTTTTGCTCTAACGATCTTGCCAGAT
CCCTCCCTCTGTAGACAACCACCAACCTCTGTTTGCTGTTGAATTCTCTCCTCACATTACCCAGGTCTGCTCAAG
ACATGATTTTGGTTTTGTTTTCTGAGGGTTCTAGTGGGCAGAAGGTTGGAGGGACACTTATGAGGGTGGCCGGGG
GTCTGACGCTGCATTTGGAAAACTCACACAGTTGAATTTCCAAAGAAATCTGCCCTTTGCCCTCTTTGCACCT
TTGATACATTCTGGAAGTTTTCTCAGGCTTTGGACACTTCTGGGGATGGAGGTGTGGAGAAGTGGGGAGTTCCCT
CTCTTCATAGTAAATAACTCTGAAATATGTGAATGTGAATGGCAGGAGAATCTGGCCAAGGATGGGGCCGAAAAG
GGTGGTTCTAATTGTTTGCTTCTGATGTTGAGTCTTTAGCTGACCCACAGGCAGGTTTCCAAGGTGCAAAGAGA
TCTTTCCCGAGTCAGCGGCCCATCCTCATCCTCCCTCCCTTTACTTCCCTCACTGTGCAGTCTCCCTCAAGGATC
TACTGTGAAAGGTGTGTTTGTAGTGATATCCAACCTAACTCAGTAACGAAGTCGTTACTTAGCTCTTAGCTGTGA
AATAACTCTGGAACTTCCCCACCCCAACCATAAATCTTACTTATAAAGAAACAGGTCCCCAACTGGAAACAG
CTTAGTCCAGGCCTCAGCGAGAAGGAAGGACACCATGACTGCTCCATGCTGGGCACAGCCGGGCAGTCTTGCCAA
GTGCTGTGGAGGCTGTGCCGGCAAGAGGCTGCAGCAAGGAGATTCCCTTCCCTCGGGCCATTATCAATACTG
TCTTTATCTGGAGGTGGGGAAGCGCAGCCCTCTGAGACAGCAGGACAATGGTCAGTTTCAAGAGGGGTGAGGGCAG
CAAACGCTTCAGAGGACACAGAAGCCAGAGGACCCCCCCCCGCCCCACAGCTGGGTGAGCCTGGAAAATCCATCT
ATTAGGGACTTTTTTGGCAGCCAGATGGCAGCAATAGCCATTAGGTCTCATCCGAGTTCCAAGTCTTGCGCTGCA
AATGAGCCTCAGTTTCGCCTTACTGGAGAGCACCCCCAGATTCTGGGCACAGTTTCAATTTCCAGCCCTTTCTAGAT
CTGATCTTTTAGGGGGAAAGACAGCTTAAATGTTCTTTTTCAATTTAAAGAAAATTATTCTGTCTGCTTAAGTTG
GAGGCTACTTACTCTTTACCTGACATTTTCTTTCTTTTATTCTTCCAGATCAGGAATGAAATTTCCATGCTGC
TCATAAGATAATATTATTGTACTAATTATTTTTATTACCATTGTAATTATGATCATTATGTTGATATTTTAGTC
AGGGTTTTTAAATGCACATTTATTCCAAGTATCTTTGTGTTTTCTCTTTAATATTTAAACTTATTCTCTGTGAG
TATATAAGTAGACTGGAGGGACATCCAGATGTCCAGTTTTGTGAGGCCAAAAAAGGAAAGACTTAGGAAGT
AGGAAAATTGTTTCTGTCTCTCTATCCCAACAAGAGACGTCAAGAAAGATCCACCACAGAACAAGTTTAAAG
AAGAATCAAAGCCTTGATTGGGCTTCTGACAACATGGTCAACATCAAGGTTGTCAATTTTCTAGATCCCAGAGGCC
TGGGATGCGACGTGAGGTGGCATCTCATGGGCTCGGGGAATGTGAGTCACTGACTGTCCAGCCCTTAGCCAGCT
TCTCTCCACATCCTCAGAGCTCTCCTGTGCTTCTGAAATCTGTAACTAAATCTTTGGCTTGCCCTCTGGTATTT

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FIGURE 1601C

AAGCAAGAAAATTCCCTCGCAGAGGTGACCCCATCCGCTTCCCCACAATCCATCCTTTTGCCATCGGGCGACCTG
GGGCGTGGCTTAGGTTCTTCAATGCAGGGACATTGCCCCCTCCCAGAAGCTGCTGGGCACAGTGAGGTGGCGTA
AGAGTGACTGGCAGGTGGTACCTTCCCCAGGAAATTTACCACACCACCCAGTTCCTCAGCCTGCCCCCTCCCC
TGTGATGCATGCCCCAGCACCCAATTCTAGCCAGCTGGAAGTGGGTGGAGGGACAGCAGGAGGCCAGAGAAACC
CTGAACAAAGCTGGGCGGCTGCTCAGGCATCACAGGCTGCACCCCTCTGAAAGCATCCCCACTGGGCTCCGGCC
ACATCTTCAGTGCCTGTGCTGTGTGCGCTGGGTGCTCACACGCTGTCCCCAGACCCACAAAGTGCTAGGCCCA
GTTGAAGAAAGGGGTGAAATAGCCAGCTTCACCGAAGGGAAGGGAAGGGAAGTATTGGGCGATGCCAGCCCCACA
GACGCTCAGCAAACATTAGTGACATTCTCCTAGTCCCTACCCAAATGGCCTCCTCTACCCCCATGCATGGAGCTG
CCACATCAGAAGCCCCAAGAGAAGCTCCCTGCAGGAGAGGCCAGCTCCCTGGATGCCCAATTGCATACCTGGCCG
AATCTGCCATTGAGTCACCTTAGCAAATAGGCTGCTGTCACTAGGACCAAGCTCTCAAGCAGAGGGATGCCAACC
TAGTCCTTACTTAGCCACGAATCATCTAGAGCATCCTCTAGTCTTTTGTGGGCTCCCTCCTTCCCATTGGAAGA
GACATTGTTTCAGAGGAAGAGGGGAAGATTTGAAATGTCAGGTCACGGAGGAGTGTTAACTGGAGCCTGGTGAAC
CGCAGGGCAATTTGCTTCTGCTCACTGGGTTCTGACTGGCCCGTCTGGACGTGGGCCCCCATGTCTCTGTGCTTA
GGGCTCTTCAIGATGTTTTGGATGTTTTCCAAGGGAAGTGGGTGAGCAGATCAAGGGGTGGGAGAGTCGAGGCTT
GATTCCAGTTAATACTGTGAAGTGGAGCGTGCGGTCACTGGAATTGAGAGGAAAAGAAGGGTTGGAGCAAAGCG
GCATTCACTCCTGGACTGTTAGCCTTTCTAGTCTTCTGCTGGTGGCTGAGGTGTTACGGGCTGGGGAGCCAGCT
GACCTTTGTCCTCTTCAACCTAGAAGACTCAGCCCGCCAGACACCAACGTGTGAGACGGATGGACATCAGGAAG
GGAAGGGGAGATTAGCCCAACTGCTGACAGAACGATTCCCTTGTTGGACCTTGGGAATGGCAAACACTCATAT
TGGAACAAGCTTGGGGTGGGAAGATTTAGGCCGTGTGAGCGTGTGTGAGTGAGTGAACAACTTTCTTGAAACT
GGAGGGAGGAGATGAGGAGGCTTCGGGAAGTATTACTGATGGCTCATGTTGAGAGAGCGACGTGGGGACCCAGC
TCGCCCCAGCTTTTGTCCCAGGTTCTCTTTGTCTGATGCTGAGGGCAGGGTGGGGTGTGGGACCACCACTCTTGT
TGGCCTGTCAAGTAGACCCTAGGACAGAAAATGGAAAGAAGGAAATGGCTCGGTGCTCTCAACTAGCAGAGAGAA
TTGAGGAGAGGTAAGGGTTCTTCTGCAGGCCAGCCTGGGACTCCACAGCGCCAGCAGGAGTGACTTGGCCACAA
GACATTCCAGCCCCAGGGACTTTGCAGGCTTCATTCCCTGTCTGTGCTTTTCTTCTGTTGTGTTTTACAGACT
TCTGATGGGGAAGCTTCAAACCTTGAGCAGGCCAGAGATGTCCTTACCAAATTGGAAAGGAAGGTGAAACTGTTCC
TTTCTTTAGCCAAAGAACCCTTCTCAAAGACGCCTCCAGAAATGGACAAAATGGCCTTCCCTTCGTTTCTTTCCA
GGCAATAATGACATCATTAGTGATGCAATTCTATTGTCTTTCTCTTCTCTCTGTCCNNNNNNNNNNNNNNNN
NNNTGCATTTATTTCAAACCTGTGCTATTCTTTTAAGAGGAGTGAGGTGACCCCTTCGATGCTGCTGCTATCGG
GAGACAAGGTGCCATACCAATACGTGGGCTTGACTAATCCAGGCCACCATGGGAGAGAGCAAAGCAGGGCTGCC
AGGAGTTCAAGTGCATCAAGGGCGTAGAGCACGCGGGGGCTGGGCTCGGAATAGCAGTACTTTTCCACTTTGATG
CCTTAGAACTCTCACTTCTCATCTCCACAGACCAGACTCAGTAAATCTCAGGCCACTAGAGAATGGAAGGCGGT
GAAACAGGATTTAAATGCAAAAAAACCTATTGGAGGCTTTTGGACCGTGGCTCACTAGAGGGACCCAGCATAG
TAGAGGTTTCTCTTGTGTCAGCTTCTGAAAAGTTCAAAAAAGAACTCCAGGCCGTTCTTCCCTCAAACCCAGTGA
GAGTTTGCAGAGAAGTGCCCCCTGCAGGGCTCCCGTCCCAGAACACCAGCACCAGAGAGGGTCTTCCCGATGCC
CCCGCTGGACTTGCCCAAGCCTCTGGGAGCCCCCTCATCTCAGATCCCTGTGTTGAACATGACACTGACTGTCCCT
TATTTGTTAAATTTGCAATATCTCTCAAGTAAATAATAGCCAACATTTGTTGAATGCTTTCATGACTCCCGGGC
TAAGGCCTTTATGAGCGTTGTCTCAAGGGGCCCCAACAGCCATCCCACAGGGAGGGGGATAACAGCCCCCATTTA
TAGATAAGGGAGCTGACCGGATGCTCTGAGAAGTGGCAGGTGTTGAAGGAAGGATAAAGCAGTGATGGGCCAGAA
TCCCCAAGGTTCCCTTTTTTGTTCATCAGGCCCTTCTGAGATGTGATTTTAACTCTTTAACTTTTTTAATTA
ATAGCAATGCGTGGCCTCATATTTCTATGAACATTTAGTGATACTCCCGCTTCTGTCATGCCACACACTGTGCT
GGGAATTGCTCATGGGTGTCTGTTTCATCTTCTCCGTAGCCCTGTGAGATCGGCAATATTAGTCCCCCTACAG
CCAAGGAACTGCCAGAGCCACAACTCTTGAGGGCGAGGAGGGCTTGAACCTGAGTCTGCCAGCTCCAGA
ACTGAGCTTGCAGCCATTAGCCACAGCTGTCTCCTGCATGTCTGAGCAAAGAAAGGCCTTTACACAGCATCACCC
TGTGCCATCCCATGCACCGTGGGACTCAGCTAAAGGACTGTGCAAAGAGGGGGCTCCTGAGTTGGATTTAGGCAA
AAGGGGCAGAATTCGTTTGAATTTTAGAGAAAATCTCTGGAGAGTTTCTTTTGATTATAGAATTCCTTTTAGAT
TTCTTTCCAGCATACCAACTAGCTTTAGTAGTGCTGCTACAACCAGCTCTATAAGTAAGAGTGAAAAAGTATTC
TTTTCTTTTAAAAATAAGTTTTTCTTGCTTATAGTTAATCTAGAAAGGCAATACTAAAGGTATATATTTTT
TTCAAATGCTATTTTTTACTGCACTTGATAATTATCCTGACAGCTCTGATCTCTGTAATAGATTCACTCTTCAG

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FIGURE 1601D

CTCTGGGCAGAACCAGAGGCAGGGTTCACACCAAATTTGTAAATACCATATGTGGGTCTGGTGTCCAGGAACTTT
TTTCTTTCTGTTAAAAAAGAACAACAAAAAAGAAGTAGAGGTGGAAGAAAGACAAGACTTAG
AGGAACAAAAGAATGTTTTCTTTTGTAGATACTCTTCTCAAAGAAATAGCAACAATTGTATAAACAGGAAAACCAG
CCAGCTTTCATGATAAAAGGAAGGCGTGTCTCTTGCCCTGGTATGAGATTAAACAGAAATACAGATGCATTTTTAT
TTTGATTGAAAGATGGTGAGAATGTAGAAATGCTTAGGACTAGATTTTTAATTTTTTAAAATAACTATTATCATT
TATTATGAAATATTTGTTTCAGTTGTTTTGAGTGGGTTTCTTGTCCTTTTTTTCATTTAAAACCTTCTTTGTTGAC
TGGCTCCAGGCTTGTGTTGCCTAAATTCCTAGGTAGTTTACACAAGTTCTAGAATCTTTTAGAACCTTTAACTCCAT
TGGAAGCAAACCTAACTAATCGGAGTTTGAGATCCTGGTTGGTTTCAATAGGTATTCTGGAATTCTGGCAGAAACA
CCTAAAGATTTTTTTTTTTTTTTTAGAAGTTTTAGATACATTATCTTACACAACTGTGACCTAATGGCAATAATT
ACCTCAAATGTGGGCATTTCATCCTGGTTTTAGCCTTTTTTGAAATCATGTAGCCAGCTTGATCTTGGAATTTAAA
GACTATGAATTCCTGTGGGCTGAAAATAATGATTACTTCATACCCCGGTCATCGTTGCTTAAGTGAATTCCTGA
AAATAGCTCATCTTTACAACAAAAATTAAACCAAGGAAGAGATTATTCTTTGTGTGTTGTACTCAAATGCGATGT
TCAAATGCACATGTTAAGTATATATGTTTTTAGCTACTGTAAATGCTGTTAGCCTTCTAAGCTATCAAAACAGT
CACATTTTAAATGAGTAACTAAACAATTGACTGTGGATACTTAAGCATATTTCTGGCTACGTTTTATAGTTAAA
GTGTTTTATAGTTTACATTTAGACTGGTACTTTTTAAAGAAAAGTTCTGTTTATAACTGACATCCGCAACCCCA
GTGAATGCCTCTTAGTTGGAGGTTGTGTCTCCCCAAGGCAAGTGTGTTGTCCAGACTCTTCTGTAGTCCAGCA
TGCGCACTTCCCTCTGGATTATTACTTCCACGTGAAGTCAAGAGAACATGAAAGGCAATCCAGATGGAGGGAAA
- AGGTGTGAGTCCGAGCCCGGGCCAGATGCGAAGGTCTCATGCGTGTCTCTAAACACTTGTCTTCAAGGCCTTC
TCTCTGACATCTTGGAAGAGTCATTGAGAACAGATAACCTGGTTCATTGATTTTTGTCTTGATTGAATATTTAA
CTTATTAATAGATCCACTGATTTCCAGGCACCAGGCAGTAGAAGAGACTGGGATTACAGGTGACCATGAAGGCACA
GCTGCTACTTCTGGGCCGGGGTGATATTTTGATCAGCGTTTTGTAGGGGAGGACCATATACCCCTATTCCCATG
GTCGCTGGCTGGGTTTTCCATATATCTGCTGTCATTTATTCGTTTTCCCTTAAAGCAAAATCAATGTAAAAGG
CTATGTTTACGTTTTACTCATTTGTCAGCTTAGACTCAAAGTCTAGTTCGGTGGGAGGGGGACCTTAGCATCCTC
TCAGAGATGGTCAGGGCTGAGCAGGAGGAGGCAGAGACAGAGGGGCAGCTCAGCCTGGTCCATTGAGACCCACTC
TAAACAGACATCATATTTGGAACAAGAAGATGCTTCGAGACAGGAATGGGCCCCACTGTGCATGCAGAAACAGACT
GGGGGAATGGCAGTTTCCCTGAGTCTTGTTTTCTTTATGTTTTCTTGTGCCACCACCAAACTGCAGAGGACC
TGCTGTGACCTAAAGGGCATTCCCTTAGCAGATAAGACCTTGAAAACCTGCAAAACACCTGGGACCAGGGAGCTTT
TAAAAAATACAAAAAATACCACATTTGCTTTTTCCCTGTGAACTGTATTGACAGCGTGTCTTAGGACAGTCTT
TTGGTGGAAATGTTACTGTAAAATAGTTTTCATCTCACCCCTCCTAATCATACTCCCACTTTCTGTTTTGTGTGG
TGGTGTGCTGTTTTTTCCCTTACATGAATTAACCAATGAATTTTGTGTCAATTGTTTTTGGGGCTTATATTTTT
AAAACATAGAAATTGCCTTTTGTTTCATTTGAAAAGTAAGTATGTTGTATCTGAAAAAGGGCTCTGCCTCTGCTCT
CCCTCGCTTCCCTGTAAACCAATCTCCAAACGAATCTCTCCTGGCACCGCCCCCTTCCCTATATAGGGTCACTGTC
CCCCGGGGCCACCTCTGCCTCCACCCTGCTGTCACTGTCCTGGGCCAAGGCACCCAGGACTCCCAGAAAGCGC
GAGAGCCAGCAAGAAGGCCCACTCAGCCTTGAGACTGGTGGTCACACCTCCCTGTGAGAGTCGCCTGCTGGGCT
GAAGGGGCAATGGATTGTCATTGTTGAAATTGTTTGGCTCAGGTTATAAGGAGGAACCTGGGAAGTAGAAAGTGA
CTTGACCATGTGCATCCTTGTTAGCTTCCCTGTAACATAACAAATGGAACAGAGACACACCCCGCCCCGCCCCAC
CCCAAGCAGATGTTCCCGTCAGCGCTGCCCTGAGTCAGTCGGTCCCCCGTTTCTGCTCTCCTCCCTTTTGTGTTC
CTGCTCACTTCAAGCTTCTTCCATGGACTTTCAGGGCACAGTCATCTCTAGCCCCAAATCATCTCTTCATCCT
CTGTGTGTGCATTTTTTTAACCAAATGAAATAGACAAGAAAGTCATACTTTGGGGCAGCAGAATTTCTAATTTAG
TAGAATCACTGTATAGAGATAGATGTTGATATATATGTTTGTGTATATATCAAAACCAATGGATAGGAGAAG
TATAGCTTTACAGATGAGGAGAAGGAGCTCTTTAGAGGTCGGAGTCAAGACTGGTGTCTTGACGTGCATGGGCT
GTGTCCCAGGCCACTCCGCACACATGGGGCTGAGGCGTGGCGCCGGGCCCTTGTGCATCCACCTCACCACGGCAGA
GCCAGCAGGCCCTGTAGGGTGTGCTGCTGTCTCACTGGGTCCCAGCTTCAAGCGCATCAGTGGGTGACGGGGC
AACAAATCAGAGTGACTGGAAGTTCCATCCCGTTTTGCTTTGACCACGTGTACTGAGCTGCAGCCTCTGATACT
CTGTACGTTTCCAAAAATGGTATCCATTAGGATAGAAAGAGAATGGATCTGCAGAAATGTTTACCTTTCAACTG
CTCATGAATTCAGGACACTGGATAGAAAGACTCACTCCCCAAATGAGAACAGGGGAAGAGGAGACCCGGCGACAC
TAAGTCAACCAGGTCCAAGGAACGTGGCTCCCTCCCCAGGGTCATCTCACCTAGATCTTCTCTCCAGGTCACTCT
CAGCTCAATCTCAATAACCCTATGAAAGCCCTGGTCTGTTGTGTTTCCCTTACCGTACGGTTTTCTGTAATAAAAAAG

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FIGURE 1601E

TGTTAATCCATGTTAATCTGTGTGAAAATTATTGCGTGCAACAGTATTTTCTCGTGTACCTCTTTTTCCCTATGTG
AATTGTCCCTCTTTTTTATTTATAAATGTCTACTTTTGTTTTTTTAAAGACAAACCAATGTGTTGTAGACCTATA
TGTAACCTATTCCTTAGTCTCATATTATAGGTATGTTATAAGAATGGATATTTTACTTGGCTTTAGAATGTTTTA
CAAGAAAACATAATTCTTAACGATCAAGTCCTTGCTACTAAAATGCTTGTGTTTTTCATCATGACGTCGTGTGCT
TCTAAATTAATCATTTTTCGTTGTAGAAAAATGGAGTGAATTTATATTAGTCTTGGAACATAATAATAGCATTGTA
AATTTATGAGATGATTTTAAACAGAAAAAATATAGAAGAATATAGTTATTTTAATTGTAATATTACTAACTGTAGG
GTGAGAAAAAGGGGGGGGGTCCCATTTGTGGTGAACATGTTATAGCTTGTTACTCATAGTTTCTTTTTGATCAT
TTTTTCGGTCTCCGAGGTGAAATGACTTATTAATTAAAATTTGTAACTCACATATGCATATTGTATATGTGTAG
AAATGTAATCACACTTTGTCTTGGAATTACATTAAACTGTTTGAAATCACTGTAAAAAA

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FIGURE 1602

MAPVYEGMASHVQVFSPTLQSSAFCSVKKLKIEPSSNWDMTGYGSHSKVYSQSKNIPLSQPATTTVSTSLPVPN
PSLPYEQTIVFPGSTGHIVVTSASSTSVTGQVLGGPHNLMRRSTVSLDITYQKCGLKRKSEEIENTSSVQIIIEH
PPMIQNNASGATVATATTSTATSKNSGNSSEGDYQLVQHEVLCMTNTYEVLFLGRGTFGQVVKCWKRGTEIV
AIKILKNHPSYARQGQIEVSILARLSTESADDYNFVRAYECFQHKNHNTCLVFEMLEQNLYDFLKQNKFSPLPLKY
PPVQLQQVATALMKLKSGLIHADLKPENIMLVDPSPRQPYRVKVIDFGSASHVSKAVCSTYLQSRYYRAPEIILG
CEAIDMWSLGCVIAELFLGWPLYPGASEYDQIRYISQTQGLPAEYLLSAGTKTTRFFNRDTSPLYLWRLKT
HEAETGIKSKEARKYIFNCLDDMAQVNMTTDLEGSDMLVEKADRREFIDLLKKMLTIDADKRITPIETLNHP
VIMTHLLDFPHSTHVKSFCQNMIECKRRVNMVDYTNQSKTPFITHVAPSTSTNLTMTFNNQLTTVHNQPSAASM
VAQQRSMPLQTGTQAICARPDFFQALIVCPPGFQGLQASPSKHAGYSVRMENAVPIVTQAPGAQPLQIQPGLL
AWPSGTQQILLPPAWQQLTGVATHTSVQHATVIPETMAGTQQADWRNTHAHGSHYNPIMQOPALLTGHVTL
AOPLNVGVAVHMRQOPTSTTSSRKSQHQSSVRNVSTCEVSSSQAISSPQSRKRVKENTPPRCAMVHSSPACS
TCGWGDVASSTTRERQRTIVIPDTPSPTVSVITISSDTDEEEQKHAPTSTVSKQRKNVISCVTVHDSPLYS
SSNTSPYSVQQRAGHNNANAFDTKGSLENHCTGNPTIIVPPLKTQASEVLVECDLVPVNTSHHSSSYKSKS
BNVTSTSGHSSGSSSGAITYRQQRPGPHFQQQQLNLSQAQQHITTDRTGSHRRQQAYITPTMAQAPYSFPHNS
PSHGTVHPLAAAAAAHLPTQPHLYTYTAPAALGSTGTVAHLVASQGSARHTVQHTAYPASIVHQVPVSMGPRV
LPSPTIHP SQYPAQFAHQTYISASPASTVYTGYP LSPAKVNQYPYI

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FIGURE 1603A

GTATATGTTTCGTGAGTAATTTTAAAAAATAAAACAGGTTAATAAGAAGATCCATTCCCTTGCATGTGATTGTT
ATAACATTCTTTCCCAGGGAGTTCAATTTAGCAACCTCAGAAATCCATACTTGATATTAGGAACTGTAAATGT
AACACCTGAAATTATTATGTTCACTATTCTACATGAACCTTATGGAAATTCATGATTTATGTCTTTGTTTTCTT
TTTCCAAGTATATGCAGGACTCCCCAACCTTGATTTTATAATGGTGACTGCATTTTGTAGGTGGAATCATTCTA
CCGAAATCATTTTGAAACACAAGAATATTGATCAGTACTGTTTCACTCTGATTTAGTAAATCAGAAAGCCTCCCC
CTACCCCCAGCCCCACTTTCACATACCTTCTGGGAGGTGCTCAGTATAGACTTGGTATCTGTGAAGGACTGAG
TTCATGAATATGCACAGAAGCACTTAAACCATGCCTCTTATTTCTATAATATCTGAAAATGGCTTCATAAAAGTT
AAGTCAGGAGAACACTGTTTACATGACACTTCTTAACTCAATTTTAAATGTTTATTTTAAATTTCAAAAACCTTGTT
GCCTATTTGGTTTTTCACTACTGCATAACACTGACTTTCTTAAATTAGTCATAGTTGCAATAATTTACTTAAATTT
GGTAATGTCACATTTGGGTTGGGGTTTCACTGAGGAAATAGTAACCTTGCCGCTAGTGAGAAATGGCATTGAATACTA
AAGACTCAATATGAACAGGCTTTATAGACCCTTAGAGAACTGTTGCCTTAATGTTTGGTGCAATTTCTAGTAGT
GCATAAGTGAATTTAGTCTTATGATAAGTAACTTTGAGCTGTTTTTGTAGCTTAGTAAGAATTGTGGAACCCACATG
TTTATTGTGCCCATCATTTTACACAAAAGAAAAGAGGATTATATTATTTCTTCTAAGGAAGTAGGAGTTTTCTTCC
TAAAGTGCTTACATATTGTAGTACTATTACTTAAAGTTATTTATGAAGTTGGGAGCCTTCTAGTTTGCCTGTG
TTGATGTATTTTGAAGAACAAAATTGCAATAAAGGATGAGCTTCCATCGGTGTGTATGGTATACCAGATACAGATG
GTTGCAAGGAAACCTTTTCCCCACTAGAAATAGTCTATTAGTAAGTGTAAAGTCTAGCTGCATTTTGTAAAT
GCCTTTCTGCATGTTAGCACCCAGACTTTCTTTGTCTATTTCTTTTATAGCTACAACCTAACTGTAGCTTATCA
GAGAAGCTCTGTAGTCTTACACTGAAGTGTGTTCCCTTGGCTGTTTCAATATGGGGCTGGGTTTGGTTGAACCTCCA
TTCTGTATAAATGCTAGAACACAGTTACTACAGATTGATTACAAACTGCATGTGCTGGTGTCTGAGGCAGCCAA
AATGGAATGCTGTGGAAGCATATCTATATCTTAAAAAACTCAGACAGGAGTTAAGGACAGCTTTAATAATTT
TTTTGTTTACCCTTAATCTTTATCAACTTTGATTTTAGTTAGGGCTTAGCTCATGGTTGAAGAAAAGTGGA
TAACAAGTGCCATTTAGGTTTGAAGAATCCAGAATGTTTTACCTTTGACTTTATGAGTTATAGAAGCTTGGCTT
TGCTCTAGGTTTCATGTTCCCAAATGAGCCATCTGTCTAGTATATTCACTTAATTTCTTACTAATTTTCACTTCTG
TAAAGGAAACAACCTTACATATTGATGCTTAAATCCAGAAAGTGTAAGGTTTTCTTAACTGTTAAATATAGT
GTCTGATATAAAGGATGTAAGTTACTCAGCTTTCTGCTCCCTAAGCCAAACAGTGTTTGTCTTCAGTGTGAAT
TAAGTGTAAAACTACTTGTAATGTCAAGAGATTATAGATCATATTATTAATAAAATGGACCTGGGTCTAATATT
TTTTTTTCTTCAAAGGGAGTGTAAGCTGTTTATTTCTTTTATTTGTCATATGAGTTTTTCTTTTAGTTTTAGTTTT
TCATGTTTATATTTCCACTGATTTGAAAACACAAAATTTATTTTTATAATTTTGTGCTTGTAGCATAATCAAGT
GCAAAATCAAGTGCAACCTACTTGTGACTAAATCTCTTTGGATTTATAGCTGAGGATATTGTTAGCTAGGTTTTG
TCAATCCCTAATCATTTTTTAAATCAATGCTGTATTCCCAGGAGGCTTTGAGACTCCTATGAACCTGAAGCACT
CCCTTTTGAACCTTGGAAGATCCTCAAAGAGTGAGCACTCTTGTGCTCTTCTAATCATAATTAATTCCTTAACAA
ATCAGAGTAAGGACCACTGACATATAGAACACTCAAGCCAAAGAACCATCACAGAATTTAGTAACCTTTAGTTCTG
TGAACATGAAAAGATTTCTTTTTTGGTTTTCAAAGGAGATTATTTATTTTTTCCACAAGGAAAAACATCTTGAGA
GACTCTGAATTTCAAATCTGAGTGAGAAAGAAAAGGAAAAAATCTGTTTCATGGTGGATTTCTAAGCAACATAT
ATACATGTTTTTAAAGACAACCTTTTGTGGCAGTGTTTTTCTGAACACCATATGCACCCTAGGAAACGTTTTTC
CTTTAATCTTGTTCACATATCAGAAAAGGACATGAAATGCTCATACTGGCATAACAAGTTTCTATAAGTAGTTATT
TTTTGAGCTACTTATACATATATCCCCAAAAGCTCACAGTGCTTGTGGGATTTTTTTTTTCCATGAAGTAGCCA
TTATTTTAAATGAGTGGGAGAGGGTAAGTCTTTAGACAGAGGTCATTCAGCAGTCAAGACTATTCTCTTCAAG
AACATGTCAGGAATTAAGCAGTTATATGTGGAACACTGGTAATTTCTTCCACAGTGTTGTTTTGGATAATCTGT
TCTAGTATATTTAACTAATTGTATGGTGGACCTGTACTCTGATACACATCGAATCAGTCAATGGGATTTGTATGT
GCTTTTCTTCTACATTTTCACTTCTTCTGCTTCTGCTCAGGCTCCCTGAGGAGCAGAACCTGTGGAGC
TGAGCCTCAAGACACTCACTACATTCTTTCTGGATGTTTGTCTCACAGGCTCCCTGAGGAGCAGAACCTGTGGAGC
TGGGGAGTGCGGGTGGTTTCTATTCTTAATATTGTGTGTGCTCAGTCTTTTCTGTTGATGGTGCCTTCAGAATAAC
GAATATTTCTGTTCTGGACAATGATTAATCTTATGAGAAATATATGTAGGTTATATTAATTTCTTGTCCATTTTT
GCTAAGCCTGTGAAATACTTTGGCTCTGATACAACCTTAACTTGAATAATATCTTATCTCTGAGTCTTCTTCAAGG
CAGTACATATTTCTGCCAGGACTGTAGTAATCCTTTGGGAACACATGTGAGTAAGCACTTGTATGTAAGCCATT
ATACTGCTGTAACATATGCATACAAACAATTCTTCTCTTTACATTTATAGTCTAAAAGGGGATATGCAGTGGGAA
GGAATTTCTGAGAGATTCCAGCATAGCTTTGTCAATTCCGACTGAGCCATACTGTTTTCCACAAGGGCTCAAC

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FIGURE 1603B

ACATAGTCAGTATTCCGTGCTTTCAGTGTGTGTTTCAGATTCTCCTCTTACTGGTTTTCTTAGACTGTATTGTTCT
ATAAGCAAATGCCCATGTGTGATTTTTAAGATGTGCTGGGGAAAAATAAATCAATACCACAACGGAAAAATCACA
CATGGGCATTGCTTATAGAACAATACAGTCTAAGAAAACCAGTAAGAGGAGAATCTGAACACACACTGAAAGCA
CGGAATACTGACTATGTGTTGAGCCCTTGTGGAAAACAGTATGGGCTACTAGGTTGGGGCAGTAGGAATGAAAAT
GTAGGAAGGAAAAGCACATACAAATCCCATTGACTGATTCGATGTGTATCAGAGTACAGGTCCACCATACAATTA
GTTAAATATACTAGAACAGATTATCCAAAACAACACTGTGGAAAGAATTACCAGTGTTTCCACATATAACTGCTT
AATTCTGACATGTTCTTGAAGAGGAATAGTCTTGAACGCTGAATGACCTCTGTCTAAAGACTTACCCTCTCCC
ACTCATTTAAATAATGGCTAGTTCATGG

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FIGURE 1604

MASS

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FIGURE 1605A

AGCGGCCGCCAACGCCGCCGACTGGAGCCCTGACATTGCTGCGCTCGGGGGGCTCCAGGCAGCCCGTATCGGG
GCCTTTATTTCTCGTCGGCGGCGCCCTGCACCGCGCCTCGCAAAGCCAAACACCAGAGCACCCTAGAAGGTTTAA
CTAAAGAATGCTCATGTTTGACCCAGTTCCTGTCAAGCAAGAGGCCATGGACCCTGTCTCAGTGTACATCCCAT
CTAATTACATGGAATCCATGAAGCCTAACAAGTATGGGGTCATCTACTCCACACCATTGCCTGAGAAGTTCTTTC
AGACCCCAGAAGGTCTGTGCGACGGAATACAGATGGAGCCAGTGGACCTCACGGTGAACAAGCGGAGTTACCCC
CTTCGGCTGGGAATTCGCCCTCCTCTCTGAAGTTCCCGTCCCTCACACCGGAGAGCCTCGCCTGGGTTGAGCATGC
CTTCTTCCAGCCCACCGATAAAAAAATACTCACCCCTTCTCCAGGCGTGCAGCCCTTCGGCGTGCCGCTGTCCA
TGCCACCAGTGATGGCAGCTGCCCTCTCGCGGCATGGAATACGGAGCCCGGGGATCCTGCCCGTCATCCAGCCGG
TGGTGGTGCAGCCCGTCCCCTTTATGTACACAAGTCACTCCAGCAGCCTCTCATGGTCTCCTTATCGGAGGAGA
TGGAAAATTCAGTAGTAGCATGCAAGTACCTGTAATTGAATCATATGAGAAGCCTATATCACAGAAAAAATTA
AAATAGAACCTGGGATCGAACCACAGAGGACAGATTATTATCCTGAAGAAATGTCACCCCCCTTAATGAACCTAG
TGTCACCCCCGCAAGCATTGTTGCAAGAGAATCACCTTCGGTTCATCGTGCAGCCTGGGAAGAGACCTTTACCTG
TGGAATCCCCGGATACTCAAAGGAAGCGGAGGATACACAGATGTGATTATGATGGATGCAACAAAGTGTACACTA
AAAGCTCCCACCTTGAAGCACACAGAAGAACACACACAGGAGAAAAACCCTACAAATGTACATGGGAAGGGTGCA
CATGGAAGTTTGCTCGGTCTGATGAACTAACAAGACATTTCCGAAAACATACTGGAATCAAACCTTTCCAGTGCC
CGGACTGTGACCGCAGCTTCTCCCGTTCTGACCATCTTGCCCTCCATAGGAAACGCCACATGCTAGTCTGATTGC
CTCTGTGCTCCTGCCTCAGCGTGACTCCCCACTCACCTGGCTCTCTCTGTCTCCTGCCCTCCATTATCTAACACAT
TTTTTACATGTACATTTTAATTTGATTGAGCTGGTCTGAATCTCTGAATTTATATCATCCAAAACCTTCCATATGG
TCAGTAGTAGATGTTCTCTAATCCTCCCTCTCCTTACCACGGGTGAGACCTAAAGAATGTGAACACTTTTTTTTT
TTTTTCTGGGGATGCTAAGCAAACCTTCTTACAGATACGTTTAAATGTAATAAGAACAAGGGAACATGTAAACTA
ACATAACCAATTGTCAGTTCTCCATGTATTCTCAAAGAATGTCAGAGTAAATGTATTAGAAATACAGTATCCA
GACTGCTAGTCCTTGCCAGAGACATTCTTACCTCTGCCCTGTGATAATATTTTATGCTTGACAGTGAAAAAAGT
GTGGCCCCCTGCACCGGTTAGCTAGAAGTACAGCCAGATTTCAAGCTAGTGCAGTCACCTCTTCCGTCATTCTTC
ACAAATCTTGTCAACCTGGATCTTAGACTTCATCTGAATCGAGTTCTTGGCCCTCCTTTGTGCCTGCAGCTCATA
TGGAGGTCTTTGCCACCAATGGGAGATGAGCCCAAACCTTTCGATCTAGGTGGGTGATGTGTAGCAGTTCAAGGGA
AGGGTGCTGTGTTTTCATAGCATGGAGTGGGAGGAGAGGGCCATTTAGCAGGGGGAGCAGAAGAGGCAATTCCTC
CTGGGCTAGGGGTTGTCAATGAGGTTTCAACATTTTGTAGCTGTGTGCAGCATTCCCAGAGCTTCAGTCTCTGT
GCATACTCAGCTTTGTAGAACCATGCTGCAAAGCCATATACCGATGGGGTTATCCATGCAACTATCTCCATTCTC
ACAATGTCCTTAATATGAGATCATCAAACATTGATAGTAGGGACTCCATGGAATATTTGCCAGTAATGGTAAGA
AATCTTTCGGGTAAGAGTATGGATGGTTCTTCTTTTACCCAATCTGCTTATAGCTTTTTTTGTAAACAGGGAAAT
GTTGAGTGGTACTTGTATTCCCTTATCAAATTAATCACATAGCTTTTATACAGAACTCTTCTGTGTGAGCTGT
TAAGGTGCCAAATTGGCTGTCAATTTGTATTGATGACACATACCATAAAGCATCTGCTAATGCTTTAATGGATTGA
TTCAATTAAGACCTGAGTGACACTATTTGTAAATATAACTAGTTGTGAAGCACACATACCTTTATTTTGGGAATT
TATGAGAAAATATAGAAAACACAGATCAGGGATTCAATATATGTAGCTCAAAAATTCCCAAAGTTTACTGTTAG
AGTTGGCAATTTCCATCACTATTTAGTGTGAGAACAACTGAAAATAATGGCTCGTGTATGTTGAAGATAA
ATAGCACCATTATTGGGGGAAGTTATTCAAAGCAGGCTTTTGAGCACCATAGTCTAAATGCCAATAAAAAATAAT
TCATACATAGAAATGTCATTGGTCCTGAATTTGAAGAAAGTGAGCAACAGTAGTTAAATGTGGGTGCATATAACC
AAATTCCTTTCATCAAGAATGGAGGAGAAGAGAGAAGAATGAAATCCTGAAGATTCATCCAGCCGCAACTCAG
GATCCAACACAACCTTTAACTGGGAGGAATACATTGTTGATCATTTTTTAAACATCTGTGAATGAGTGATTCCGG
AGGCCTGTGAATTGTGTGGGAGCTTGCTTTGATGGCACTGTGTTAATAAAAGTTGTAGGGACTGTGCACCTAAG
AGGCTAAGAGSTCCCACTCATCCGCCCTGTGAACCAGCTGTAAAGAAATGTAGTTAAGAAATGCAAAGAAATGTG
TTATCTTGGCACTTGGGTTTGATTTTCTTTTTTAAAGCACTGCAAACTTCTTTAGGATACTAAACATCCTA
ATTGGGCTGTTTTTTTGTTTTGTTTTGTTTTTTCAGCTAAAGGCAAAGATAATTTTTTTTTTCAGCTGAAGTTTTTC
TTTTTGCAACTATGACATGAATTGAGTGATAAAATGGCTCTTTGAAAAGTAGATATTGTCTGTATTGTAAATGC
TTAGTCATATTGATGGCAAAGTGTTCATTTCTTGAGATGGTTCTTTCACAACACACAAGAATCAAGATGGAACGC
AAGGAAAATCTTTTTGTTTTGACCGAGGTAACCAAGTTTATGTGTGTTCCAATCCATAGAGAAGTGGGGGAAAGGG
CGAGAAAGGATCAGATTGATCTGGGATCAGCTTTGAGCCTGAGTTCAGTGAATAGCCTCATGGGCATCTCATGGA
ATTGATGCATTTGCTGTGGCATATTTAAATTTTGTTCAAAAGATTGAAGCAAGACCTTGCAAAGACTCTTAACA

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FIGURE 1605B

TTACTGTTTCAGCTTGCTTAGATTGTGTTAACAGTTCATTTAACAAAGATCCGTTTTAACTCTGAACAAAAGCAAC
CCAGAGCGGCCATTCTCTATTCCCATGCTGGTCAATACGCTTTCATTACCAATTGGCCCTTACCAAACCTTTCTT
ATATATATATTTGTATTTTACTATGATAGTTGAGAAATTTAGCCCTCTAGTCATTTTTAGCTGTTATTGTGGAAG
ACCTCAAATACAAGATTAGATGCCCTTGAACATGTTTTAATGATGTGTGTCATGTTACTATCAATGGTGATTTCA
ATCGCAATATTTTAAATTGATGAGAATGATTTGTAAACATGAAGTTACTATTACGTAAATTCGTGTTTGTTATAGA
GTTTCTTCAGTTGTTACCCAAGTGTCATCCTAGAGAAGTCAGAAGAATCAGAATCCATCGTATTTTAGAGTTATG
TGAATCTACATCATAAATGGGCATTAACATTCTAAATTGCTTGGTTTGGAGAATGTGTTAGCAGCATAGCTATAT
TCAACTAGGGAGATGCTAAATACACAGAAGTTTCAAGAGCCTTGGAACAGAATTACAGGGGAACTATATATGTAT
ATGTATATTTTATTAAACACCCATCTGCACTATCAGTATTGCACTAATGTGGAATTTGAAAGACTATTTTGCTGA
TACTGTATATATGCGCATCATTCTGATTAGATTGTTGTAAAGACAATCTGAAAGATCTAAGGTTTTAAATAAT
TTGGTTTGAATAATACAGTTGTCTTGAAGGAATTGCTGTCATACATGAAGTTGCTCCGAGCTGTCTTTATTCTC
TTCTTGGTCAAGGTTAACAATTGCTAAATGATCGCAATTCACCTAAACAATACATTTACAAAGCCATCTTTACA
TGCATTAAACGAGGGCTACAACAATATTGTTTTACAAATACTAGCACTTTTTTTTCTGTTATGTACTTAGTGTTA
GAGGGTCAAATAATCTTTCTGCTTAGCATCTCTTAAACCATACCTGCAAATATAGCAGGATTATTACATTTACA
GTACTTTAATACTTGTATAAACTATGCAGAAATTTTTAATAAAGTGTAATATATTTTATAAGCTAATAAGACTGA
ATGGGTAAAGGTTTTTAGCATGCGTTAGTATACTTGCAGATACTGAAACATTTTGGTAATCTTTCTTACTAAAGA
TGTGAATGTTTAAATGTACCTTCTCTGTTTCTACTCTGTAGTCCAATGGGAATTCAGTAATGACATTTTGTCATGT
CAAACGTGAACATAAATTTGTACTGTACAGTCCTCATATACTATATACAGTATGCAATATATATTATATACTTG
TTAATAAAACCATCAGAATATTAAAAAAATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCAGGAATTC
GATATCAGC

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FIGURE 1606

MLMFDVPVPVKQEAMDPVSVSYPSNYMESMKPNKYGVIIYSTPLPEKFFQTPEGLSHGIQMEPVDLTVNKRSSPPSA
GNSPSSLKFPSSHRRASPGLSMPSSSPPIKKYSPPSPGVQPFQVPLSMPPVMAAALSRHGIRSPGILPVIQPVVV
QVPFMYTSHLQQPLMVSLSEEMENSSSSMQVPVIESYEKPISQKKIKIEPGIEPQRTDYYPEEMSPPLMNSVSP
PQALLQENHPSVIVQPGKRPLPVESPDQQRRIHRCDDYDGCNKVYTKSSHLKAHRRTHTEKPYKCTWEGCTWK
*SDELTRHFRKHTGIKPFQCPDCDRSFSRSDHLALHRKRHMLV

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FIGURE 1607

TTTCGCAGGCCGATCCCCACTCCAACCGTTCCCTCAGCAACCCCAGGGGTGTCAGACGGGGCACCCCTCCCACTGT
CTTCTCCAGCCAGCCTTAAAAACCCAGAGACGCCAGCCTGGGAACGATCTCAGTATGGAATCTGAAGTCGCCTT
GTCAGCACAGACACCTCTGGGGTCCCCAGAAGACCTGTGGCAAAGTTCTCTAAACCGAACCTGGAGAGGGGAAGG
TTTTCAAGCAGGAACACATAAATTCACCTAAACTCACGCCTACACCCCTCTGTGATAAAAGATTCTGTGTTCT
TCTGTTGGAGACTGAATTTCTCTTCAAGACTACAGTACTGTATCTGTCAATCTGTGGAAA

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FIGURE 1608

CTCTTACAACATTGGCTGCCGGCGTGACTTTGACCGCTTCCCGGTGCGTTACCGGCAGCTGAACCCACCCGGCGC
CACGGGACTTTGACGCGTGCTCTGCGCTTGCCATGAGACTCCTGGGAGCTGCAGCCGTCGCGGCTCTGGGGCGCG
GAAGGGCCCCCGCCTCCCTAGGCTGGCAGAGGAAGCAGGTTAATTGGAAGGCCTGCCGATGGTCTTCATCAGGGG
TGATTCTAATGAAAAAATACGAAATATTGGAATCTCAGCTCACATTGATTCTGGGAAAACATTAACAGAAC
GAGTCCTTTACTACACTGGCAGAATTGCAAAGATGCATGAGGTGAAAGGTAAAGATGGAGTTGGTGCTGTCATGG
ATTCCATGGAAGTAGAGAGACAAAGAGGAATCACTATTCACTCAGTCAGCAGCCACTTACACCATGTGGAAAGATGTCA
ATATTAACATTATAGATACTCCTGGGCATGTGGACTTCACAATAGAAGTGAAAGGGCCCTGAGAGTGTGGATG
GTGCAGTCCTTGTCTCTGTGCTGTTGGAGGGGTACAGTGCCAGACCATGACTGTCAATCGTCAGATGAAGCGCT
ACAACGTTCCGTTTCTAACTTTTATTAACAAATTGGACCGAATGGGCTCCAACCCAGCCAGGGCCCTGCAGCAA
TGAGGTCTAAACTAAATCATAATGCAGCGTTTATGCAGATACCCATGGGTTTGGAGGGTAATTTTAAAGGTATTG
TAGATCTTATTGAGGAACGAGCCATCTATTTTGATGGAGACTTTGGTCAGATTGTTTCGATATGGTGAGATTCCAG
CTGAATTAAGGGCGCGGCCACTGACCAACGGCAGGAGCTAATTGAATGTGTTGCCAATTCAGATGAACAGCTTG
GTGAGATGTTTCTGGAAGAAAAATCCCTCGATTCTGATTTAAAGCTAGCAATTCGAAGAGCTACTCTGAAAA
GATCATTACTCCTGTATTTTGGGAAGCGCCTTGAAGAACAAAGGAGTTTACGCCTCTTTTAGATGCTGTTTTAG
AATACCTCCCAAATCCATCTGAAGTCCAGAACTATGCTATTCTCAATAAAGAGGATGACTCAAAAGAGAAAAACCA
AAATCCTAATGAACTCCAGTAGAGACAATCCCAACCATTTGTAGGCCTGGCTTTTAACTGGAGGTAGGTTCGAT
TTGGACAATTAACCTTATGTTTCGAGTTATCAGGGAGAGCTAAAGAAGGGTGACACCATCTATAACACAAGGACAA
GAAAGAAAGTACGGTTGCAACGGCTGGCTCGCATGCATGCCGACATGATGGAGGATGTTGAGGAAGTATATGCCG
GAGACATCTGTGCATTGTTTGGCATTGACTGTGCTAGTGGAGACACATTACAGACAAAGCCAACAGCGGCCCTT
CTATGGAGTCAATTCATGTTCTGATCCTGTCAATTTCAATAGCAATGAAGCCTTCTAACAAGAACGATCTGGAAA
AATTTTCAAAGGTATTGGCAGGTTTACAAGAGAAGATCCCACTTTAAAGTATACTTTGACACTGAGAACAAAG
AGACAGTTATATCTGGAATGGGAGAATTACACCTGGAAATCTATGCTCAGAGGCTGGAAAGAGAGTATGGCTGTC
CTTGATACAGGAAAGCCAAAAAGTTGCCTTTGAGAGACCATTACTGCCCTGTCCCGTTGACTTTACACATA
AAAAACAATCAGGTGGTGCAGGCCAGTATGGAAGTAATAGGTGTCCTGGAGCCTCTGGACCCAGAGGACTACA
CTAAATTGGAATTTTTCAGATGAAACATTCGGATCAATATTCCAAAGCAGTTTGTGCCTGCTGTAGAAAAGGGGT
TTTTAGATGCCTGCGAGAAGGGCCCTCTTTCTGGTCACAAGCTCTCTGGGCTCCGGTTTGTCTGCAAGATGGAG
CACACCACATGGTTGATTCTAATGAAATCTCTTTTCATCCGAGCAGGAGAAGGTGCTCTTAAACAAGCCTTGGCAA
ATGCAACATTATGTATTCTTGAACCTATTATGGCTGTGGAAGTTGTAGCTCCAAATGAATTTTCAGGGACAAGTAA
TTGCAGGAATTAACCGACGCCATGGGGTAATCACTGGGCAAGATGGAGTTGAGGACTATTTTACACTGTATGCAG
ATGTCCCTCTAAATGATATGTTTGGTTATTCCACTGAACTTAGGTCATGCACAGAGGGAAAGGGAGAATACACAA
TGGAGTATAGCAGGTATCAGCCATGTTTACCATCCACACAAGAAGACGTCATTAATAAGTATTGGAAGCTACAG
GTCAACTCTCTGTTAAAAAAGGAAAAGCCAAGAAGCTAACTTTGCTTACTGTGAGTTGACTGACTCTAATTGAATC
TGCGTGGTTTTGATACTTTGATGGATTCCAGTGAATAAATTCAGGCTGCTGAAACAAGAAATCTGAGCCCAGG
AAGCGGGCTCTTCTTTCTTCAAAGAAGCCCTTCTTGTTCAATTCAGGAGCTTCTGTTATATTCAAAGGTAATT
CTATGTCTATCTCAACTCTATTGATTGGTTTTATAGTTTATTGAAAATCCTCAAATAAAATATAATTATTACTGA
AATATGTTTAATATTTAAGGGGAAAAGAGACTAATTTCACTTATCTTTTAAAGCTTAGAATGTATGTTTCAATTC
AAATTTTGTATCATAAGAGTTTTCAACATAGAGAAAAGCTGAAAAAATGCAAAGAATAACCACATACTTTCCATC
TACCTTCCTTTGTTAACGGGTTGTTTATCATATAATAATTTGTTTTGTTCATATTTGCTTTTCACTGTCTATTATCT
GTTTAAAGTCTCATAACTCTATTTTATGTTTGTGCTGAAGACTTGAAAGTGAATCGCATATATCATGACACTTCTTGG
AGTGTCTAATATGGGCAGGCTTTTCTGTTGAAGAGTGGATTCCGTATGTTCTTCATAGAGAGTGTTTTTTCAGATT
CTTCATTGGGATATTAATAATATTAGCCAAATTTCTCTCTGTTTTATATATGTCTGTTTATTTTCAGTTTGTGGTTT
CTGCAAATTTGTAAGTGCCTCTGTTTTAGGAGTATAAGTATTACTTCTTGTGGTCTATTGTGAAGTAAAAAGTA
GACCTTGCATATACTATTCTTGTGTTGTGTTTCATCTTAATGTTTTTGTACAGCTAAATCAAATGTAATTTATAGA
GTTAGTTTTCATCAACCTAATGAATGCTAGTTAAATTTGAATTCCTTGGAAATTTATCGTATATTGTATTCACTGAG
ATTATGAAGGGACAAATGTTAATCTTTTGTGTTCCAGAAAAAGTTGGGCTTTCCCAAGCAGTTCTATTACCCGGTT
CAGAATTGCTTCATCCAAAAATCATCTGATGGTATAGATGGATCCTAGTCCTTTTCACTACCTGATGGTAGAAAT
AAAATAATTGATT

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FIGURE 1609

MRLLGAAVAALGRGRAPASLGWQRKQVNWKACRWSSSGVIPNEKIRNIGISAHIDSGKTTLTERVLYYTGRIAK
MHEVKGKDGVGAVMDSMELERQGITIQSAATYTMWKDVNINI IDTPGHVDFTIEVERALRVLDGAVLVLCVGG
VQCQTMTVNRQMKRYNPFLTFINKLDRMGSNPARALQQMRSLNHNAAFMQIPMGLEGNFKGIVDLIEERAIYF
DGDGFGQIVRYGEIPAELRAAATDHRQELIECVANSDEQLGEMFLEEKIPSISDLKLAI RRATLKRSTFPVFLGSA
LKNKGVPPLLDVLEYLPNPSEVQNYAILNKEDDSKEKTKILMNSSRDNSHPFVGLAFKLEVGRFGQLTIVRSYQ
GELKKGDTIYNTRTRKKVRLQRLARMHADMMEDVEEVYAGDICALFGIDCASGDTFTDKANSGLSMESIHVPDPV
ISIAMKPSNKNLEKFSKGIGRFTREDPTFKVYFDTENKETVISGMGELHLEIYAQRLEREYGCPCITGKPKVAF
RETITAPVPFDFTHKKQSGGAGQYGKVIGVLEPLDPEDYTKLEFSDETFGSNIPKQFVPAVEKGFLDACEKGPLS
GHKLSGLRFVLQDGAHMHMVSNEISFIRAGEGALKQALANATLCILEPIMAVEVVAPNEFQGGQVIAGINRRHGVI
TGQDGVEDYFTLYADVPLNDMFGYSTELRSCTEGKGEYTMEYSRYQPCLPSTQEDVINKYLEATGQLPVKKGKAK
N

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FIGURE 1610

GGCACGAGGCCTTCGGCCACCCCGCTGACCAATGGCAGTGTTTCATGACGAGGTGGAAATCGAGGACTTCCAATA
TGACGAGGACTCGGAGACGTATTTCTATCCCTGCCCATGTGGAGATAACTTCTCCATCACCAAGGAAGATTGGA
GAATGGGGAAGACGTGGCAACGTGTCCTAGCTGCTCTCTCATTATAAAAGTGATTTATGACAAAGATCAGTTTGT
GTGTGGAGAAACAGTCCCAGCCCCCTTCAGCCAACAAAGAATTAGTTAAATGCTGAGAAGCCTTCAGGAATCCAA
ATCCTGAACATTTGGAATGAGCCCAGATAGAAATATCGAATGCAAAGCTACTGGCTTCACAGAGACAACCATTTA
TGATTTGCTGTTCTGTAAGAGTGTGGATTCTTTCTATCAACTGCTGATATCATCTTCAGGAAGCAAGTCCATAAC
ATGACATATCTGGATTTTGTGCTTAGAACCTTAAATTGGAAGCATTCTTAATTATGCATCTAAATTTAAAAGAAG
ATAATTTCAAAACAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1611

MAVFHDEVEIEDFQYDEDESETYFYPCPCGDNFSITKEDLENGEDVATCPSCSLIIKVIYDKDQFVCGETVPAPSA
NKELVKC

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FIGURE 1612

GGCACGAGGCCAGATACTACTGGCCATCAAGGGACAGAAGAAAAAGGCGCTCATTGTGGGGCACTGCATGCCTGG
CCCCCGAATGACCCCCAGATTCGACTCCAACAACGTGGTCCTCATTGAGGACAACGGGAACCCTGTGGGGACACG
AATTAAGACACCCATCCCCACCAGCCTGCGCAAGCGGGAAGGCGAGTATTCCAAGGTGCTGGCCATTGCTCAGAA
CTTTGTGTGAGTTGAGCCCAGGCCTCTGGTTGCAGGACTCGTGAATGGAGCAGTTCTGAGAACCACCCTTTGCT
*GGAGCTTGGGAGCCACATGGCTGCTCCCTTCACACTGGGTAACAGTGTAGTATCCTGTGAGAGAATAAATGT
..ATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1613A

GCACCGGCCCCGGAACACGCTAGTGGAGCGGAAGATTGCGGCGGCGGTCAGGCGGCGCCTTGACGCCGGGACTTCA
GTTGGGCTGAGGCGGAGGAGCCGCCCTTCTGACCTCGCTCTGGCTCCGGTGCGCGCGGCTGAGCGCGTGCGAGG
CCCCGCGCGTCGGGCAGGGGCGGCGGCGGCCACTGCGCGCCGCCCTGAGGAGCGCCCCAGCGGCGGCGCGACTGC
GGCTGAGGAGAGAGCCGGCTCCGGGCCCTCCGCGTCTCTGCTCCCCCGGCCCCCGCCTCCTCGGGGGGGCGGC
GGCGACTACGGAAGTGGTACGCGCCGGCTGCGGCTTCGGGAAGGACTTCCCGTAAGGGCCTCCTCAAGAAGGGCGC
GTGCTACGGGGACGACGCGTGCTTCGTGGCCCCGGCACCGTTCGCGGACGCTGCTCGGGGTTGACAGATGGTGTAGG
AGGCTGGAGAGACTATGGAGTTGATCCATCTCAATTCTCAGGGACTTTAATGCGGACGCTGTGAACGTTTAGTAAA
AGAAGGACGGTTTCGTACCTAGTAATCCCATTTGGAATTCTCACCACAAGCTACTGTGAGTTGCTGCAAAATAAAGT
CCCTTTGCTCGGTAGCAGCACCGCCTGCATTGTGGTGTGACAGAACAGCCACCGCTTACACACAGCAAACCT
GGGCGATTACGGCTTCCTGGTTGTGACGGGTGGTGAAGTCGTGCACCGATCAGATGAGCAGCAGCATTACTTCAA
CACTCCATTCCAGCTCTCAATCGCTCCCCCTGAAGCCGAGGGAGTCGTCTTGAGCGACAGTCCGGATGCTGCTGA
TAGCACGTCTTTTCATGTCCAGCTAGGAGACATTATCCTGACGGCAACAGATGGACTCTTTGACAACATGCCTGA
TTATATGATTCTTCAGGAGCTAAAAAGTTAAAGAATTCAAATTATGAGAGTATACAACAGACTGCCAGAAGCAT
TGCTGAGCAAGCTCATGAGCTGGCCTATGACCCAAATTATATGTACCTTTTGCACAGTTTGATGTGACAATGG
ATTGAATGTGAGAGGTGGAAGCCAGATGACATCACCGTCCTTCTTTCAATAGTGGCTGAGTATACAGACTAGCT
GAGGTGTCAAGTCCTGCCTTTCTTTTCATCATCCCAATTTCCCTGCCATGTGTGCTGATCCTGCTGGCAGGAC
CACATTTCTTTGCCACTGATCTCAATGGCCAGTGATGTAAGTCTTTTGCTGTCTTCTTGAGACTCGTTGAGATC
TTTGTGAGAACCCTACTATCATTCACTAGCTCATATCTGCCGGCAGCAATTGAAGAGATCCAATATTTGAAGA
TTGGCCTTCATTTCTCGATGTTCTTTCCATGATGGGGATGGAGGTGTTGAGTCCACCGTGGCTGTTACTTTTCA
AAGTAGTTGAAGTATTGAAAATGAGTAATGTTGGTAAAGTGAATTCAAAATCCTAGTATGCTAAAGGGATGGTAC
AAGTCTAACACAAATTGTACGTAATGATACATCTACTAGAAACATACATTATTCATCAAAAGAAATGTTACATGT
GTACTCCACAGGCATAGTCTTTGTTATGATGATTGGTGTGGCTTTATGTCTTTGTTATAAACTCCTATTTTTCAG
GGGCTTATGATTCTGCTCTAAACATTGCTCTGGGTTATACAGTTTTGATCCCAAAGCTTTTTTGTGTACAAATC
GGGAGAAAAATCCATTTTAGTTCTATGGATGGAATATTTTCATGCTTTTAAAAAGATGTTTGTGTTCTCTGTGGTT
AAAGTTTTGGCAGTTTATTGATTAGTCCAAATCACAGGCTAAGGCCTGATCTCCAGGAGGGGTAGGGGAGACACT
TTACCAGTATTTTTTTATGAAAATAATACTCAAGGTTGTAAAACCCCTCAAAGCCTAGAAATTTAATTGTTATGG
CTGAAATTCCTCCTAGTTGTCTGATAGAATGCCCTGAATGGGAACCTAGGTCCCAAGGCCTGAAGGGTTGAGA
ACAGACAGCTGTAACTTTGAATTTTGTGGCTTTTCAGTGGTTCATGCTACCTACCCATACTCGTACTCTCAGACCT
TTTATTAGTAGCCTTGCTTTCTATAGAGCATGCACCAATCCAGTGAGTCCATGTGGAGAGAGCACTGTGTGCGC
AGCGGCAGCAGCAGACAGCTCCATGAGGAAAACCTCCAGTGATGATCTGACATTTACAATTACCCACATGGAAA
TTTAGGGGTTTTCTGAATCAAGCTTAATGTTTACAGTTTTCAAATAGCCATTTTGCAGTGTATAGTTTCTTACAA
AACTACCCCGCATTACAGTTTTTCACATTATCTGCAAGCTGAAACTTATTTTTAAGTTTTGTGTACAAGTTGACTGC
TGTAAGATATATATTTTTTGGGTCAGTTTTTTTCTTCATTAACCTTGGTGGTAGAAAAAATATATACTTAGAAA
TCCTTAAATTAAGCCATGTTTTATATATAAGTCAGGTAACATTGGTGTATAGATGAGAATGCAATTAAACCTGA
TGAGAATCTACTTGAGAATATAGAAAGTCTTCTCTAAAGGAGATACTGACTCCCTGGTTTATTGCATTAAAATT
TATGTTTGAGGTTACCTCAACTGTTTTTAAAAGATTTTGTGTTGTAATTTGTACTGTATATTTGAGTAACTGTC
AGGCTTTTTATTTAAAATTGTTTAAACATGTACCATGTACATGTCATTACTATATTTCAATGCATCATGCTTGTAAC
AGGCATTTTCAATTTATAATAAGAATGAGTTATTCATTTGTAAGCGTTTCAGTAATTTATCTACTATTCCTAAATTG
GCATAATGTTAGATAATCTATTTTGAATCACCTTTAATTACATGTCAGAATGCCTTAACTACCTAACTTGACAA
AACAGAATTCCTTTGGTAGACGCGGTGGGGGCGGGGTGGGGGCTGAGCGGAGTCTCTATTTAAGGAGAAATCAT
CATGCTATGATAAAACACAGAAAGCATGAGTGGCAAGTGGCGGGGTATTTATTTTGCACAACTATTTGCAGTCTC
TGTGTATTTAAAAAGTAAAGAAAGTTGCATCCAGAAGGGTTTTGTTAGAATGAATACATTTATATTAGGACTGAC
AACTTCAGCTCTTTTGTGTTAGGTTTTCAATTATTTTTGGTAAGAGTATGTAGCCTTATGATCTGGATATATTTTG
CATTCAATTTTCCAACGCCTACATTTAATTCCTGGTAAGAGCAGTGCTCGTCAAGTTTCTGGTTTTTCTCTGCTCT
CATTTAACCCTGCAACACAATCTTTGTAAAGCTAGATTGGTGGTGTGTTTATACAACCTATTTACTCAGCTTACC
TTTTTGAGAAACGATTGTTAGAAATTGACGATGTGTTTGTTCAGTGATACTGAAAGTAGTGGGGGCAAGAAATTG
AGTTTCACAGTGGAATTGGCTTTGGATCTGGCCTATAGATTAGTGACATAAAATATTTTCTCTATTTTCCCTGT
TCTTTTTGTGTTATGCACTTAATTTTATGACTGCCGGGGGGGTGAGCTGGAGTGCTGCTTAACAAGTATCTCTCC

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FIGURE 1613B

TACTCTCAGTGGTCAGAGGCTGTGTTGGACCCATAGTAGAATTTTCCAGGTCACAGACCCAAGCTTCCATGGGTT
GTTACTGTGCTGTACCACTTGGTGGGTCTGATTCTGAACCTGATGTGTGTGTTAATTATATTTTAAGCAACACAC
ACGACACACACACGCCTCATGTAATGGACTTTTATAACAAAAGAAAAAATTTGGATTTCTAATTTACAAATGGCA
AATTATTTATCCCTCTCTGGATGCACCAAAGACCAGTAAAGTTTATAGCTTTTCCATCTATATTTATAAAGCAAT
ACTGTATTATAAAAATCAATATTTTTATCACATGCTTGAAATTTTATTTTGTGTTTTAAAATGTGCACTCTAA
ACATATCAGAACCTTATTTCTTCCTATGAACTTAAGCTGCCTGCGCACAAAAAATAATTTTACCAAATGGA
GATGCAGTAGAGTCCATAGGCTCTAAAACTAAAAGAAATGGGATGCAGGGGGAACAAGTTATTTGTCCTGAGTT
ACTGTACTTGCTTGACATGGTTGTTGGGTACTAAATCACAAAAGAATCCATTCCAGGTATGCATGTCTGGGGGT
GGGCTGTGTCTAGATTAGAACTGGGTTTCAAGCTTTGCATGATGGGAGAGCGTCCTCTCCTCTATCAGCTGCGT
GTGTTCTGGATAGGACAGTAGCCCGGAGATGGAAACCACCTTCAGTACCATTAGCCCACCATACCAAGTAACAAG
TTAGGCAGGAATCGTGGGAATTTATTGAGTCAGCTTTGAGTGTTGAGAGAATGTAAACAAGATTGGCTCGAATT
GTAAACGTTTGTACTTTGGATGAGTTTCATGGTTCTTTAGGTACCTTAATACCAGCTATCTTTGGTAGAAGCTAC
AGCATTCAGTTTCTCTGGAACTGTATCACATTTTGCATTTTAAAAATTTTACAGTATCAAAAAACCAAAATCT
GCTTATGAAACAAAACATGAAGCAGGACATATTGGATTCTATTTATTTAAAATTAAATTCCTTTGCAAAATTGAA
CTTCTCAACTAAAACGTGTCCATGTCAGAATTTTAACTGTTAGCAGGTAGTTTGTGGCAAAGATGGCTAAATAAT
GAAGCAAATTAGAATCTGTGTGTATACTAATGAGCTGCTTTTTTCTGTTGAGACTATCATTATTTGTCTTATTA
CCCAAGAGGCAATTACCTGAATTTGGATGTCTGAATTATACTTATGCAGGAATAGTTCTGTAAATACATTTAAA
TAACTGTAAAGATATTTAATAAATATAGTATTTATACTAATCTGTGTGCTTCTTTTGGTTTGAATAGTAACTAA
ATGAGACACCAGCCCTTGACATTGAGTTTGTGGTCACTATCAGGTCCTCATTTCCAAGCCTCCTAGTCATTCTA
GCACTGATTATATGCTGCTACTTTAACTGGCTCCAGCTGCTTCACTACATCAGTTT

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FIGURE 1614

TGPEHASGAEDCGGGQAAACSRDFSWAEAEPPLLTSLWLRCARLSACEAPRVGQGRRRPLRAALRSAPAAARLR
LRREPAPGLRVLLPRPPASSGGRRRLRTGDRPAAASGRTSRKGLLKKGACYGDDACFVARHRSADVLGVADGVG
GWRDYGVDP SQFSGTL MRT CERLVKEGRFVPSNP I GIL TTSYCELLQNKVPLLSSTACIVVLDRTSHRLHTANL
GDSGFLVVRGGEVVHRSDEQQHYFNTPFQLSIAPPEAEGVVLSDSPDAADSTSFDVQLGDIILTATDGLFDNMPD
YMILQELKKLKNSNYESIQQTARSIAEQAHELAYDPNYMSPFAQFACDNGLNVRGGKPDDITVLLSIVA EYTD

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FIGURE 1615

GGGCTTATGAGGTCAATTGGAAATAAGAACACCATTTTACTGGGTCTAGGATTTCAAATATTACAGTTGGCATGG
TATGGCTTTGGTTCAGAACCTTGGATGATGTGGGCTGCTGGGGCAGTAGCAGCCATGTCTAGCATCACCTTTCCT
GCTGTCAGTGCACCTTGTTTCACGAACTGCTGATGCTGATCAACAGGGTGTCGTTCAAGGAATGATAACAGGAATT
CGAGGATTATGCAATGGTCTGGGACCGGCCCTCTATGGATTCAATTTCTACATATTCCATGTGGAACCTTAAAGAA
CTGCCAATAACAGGAACAGACTTGGGAACAAACACAAGCCCTCAGCACCACCTTGAACAGAATTCCATCATCCCT
GGCCCTCCCTTCCTATTTGGAGCCTGTTTCAGTACTGCTGGCTCTGCTTGTTCCTTGCTTATTCCGGAACATACC
AATTTAAGCTTAAGGTCCAGCAGTTGGAGAAAGCACTGTGGCAGTCACAGCCATCCTCATAATACACAAGCGCCA
GGAGAGGCCAAAGAACCTTTACTCCAGGACACAAATGTGTGACGACTGAAATCAGGAAGATTTTTCTATCAGCAC
CCAGGTCTTAGTTTTTACCTCTAGTTCTGGATGTACATTCCATTTCCATCCACAGTGTACTTTAAGATTGTCTTA
AGAAATGTATCTGCATGAACCTCCGTGGGAACTAAAGGAAGTGGGAACTTAGAACCAGACAGTTTTCCAAAGATGT
TACAATTTCTTTTGAAAAACCTTTGTTTATTAGCACCAATTTCTCGCCACTAAGCTATTTGTTTTATTATACAT
CCTTTAATTAAAACTATATATGTAACCTCTTAGATATTAGCAAATGTCTCTGCTACCATTTCCCTTAAGGTGTTG
AGCTTTAACTCTATGCTGACTCAGTGAGACACAGTAGGTAGTATGGTTGTGGACCTATTTGTTTTAACATTGTAA
AATTTTGAGTCAGATTTTAATATTGTAAATCTTGGGTCAAATAATTCAAAGCCTTAATGCAGATGCACTAAAC
AAAGAAATGGTAAATGAATTGTTTGCATTTAAAAAATACTCTTAAGAAAAGTGTACTAAATCTGAATCATGT
TTTGAGCTTGTTTGCAGTACTTTTAAACATTATTCCTACTGTTTTTTGAAGTGAGAAAGTATCAGCCATTTAGCA
TTTAAGTTGGGGTATTTAGAGCCTGTAATCTAAATGCTGGCTCAAATTTATTCCCAGCTACTTCTTATACCACT
ATTCTTTTAATGTTTGCATAATCATAAGCACCTCAACACTTGAATACATAATCTAAAAATTATATAGTAAAGCTG
GTAGCCTTGAAAATGTCAGTGTGATATCTATTATGTAGATAAATATATATAGTGGCCTTTCAGGACTGTCACAGT
AACACTTTATTTACAGAGCTAATGTTTGTCTTAAATTTTTCAGGACCCTAGAGGAGAGCTTTATACAATTACCGAT
GTGAATTTCTCTAAAGTGTATATTTTGTGTCCAGTTATATTATTTAAAAAAGTGTTACTTTGTAAAAATTGTAT
ATAAAGAACTGTATAGTTTACACTGTTTTTCATCTCGTGTGTGTTATTGCTTAATGCTTTTTAAACTTGGAACAC
TCACTATGGTTAAATAAGGTCTTAAAGAAATGTAAATATTCTGTTAATAAAGTTAAATATTTTAATGATTTTTT
TTAAAAA

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FIGURE 1616

TCATGGCCGGCTCCTACCTGAAGGTGCACCTGCAATCCTCGCCGATAAGAGGCAGCAGTTCGGAAGCCGGTTCC
TGAGCGATCCGGCGCGGGTCTTCCACCACAATGCCTGTTGATTATGAGATCAATGCCACAAATACTGGAATGAC
TTCTACAAAATCCACGAAAATGGGTTTTTCAAGGATAGACATTGGCTTTTTACCGAATTCCTGAGCTGGCACCT
AGCCAAAATCAAATCATTGAAGGATTGGTCTTGGAGAACAAGAGTGAAGTATGTGAATGTAGAAACAATGAG
GATGGACCTGGTTTAATAATGGAAGAACAGCACAAAGTGTCTTCGAAGAGCCTTGAACATAAAACACAGACACCT
CCTGTGGAGGAGAATGTAACCTCAGAAAATTAGTGACCTGGAAATTTGTGCTGATGAGTTTCCTGGATCCTCAGCC
ACCTACCGAATACTGGAGGTTGGCTGTGGTGTGGGAAACACAGTCTTTCCAATTTTACAAACGAACAATGACCCA
GGACTCTTTGTTTATTGCTGTGATTTTTCTTCCACAGCTATAGAAGTGGTCCAGACAAATTCAGAATATGATCCT
TCTCGGTGTTTTGCCTTTGTTTACGACCTGTGTGATGAAGAGAAGAGTTACCCAGTGCCCAAGGGCAGTCTTGAT
ATTATCATTCTCATATTTGTTCTTTTACGCAATTGTTCCAGACAAGATGCAGAAGGCTATCAACAGGCTGAGCAGG
CTTCTGAAACCTGGGGGGATGGTACTTCTGCGAGATTACGGCCGCTATGACATGGCTCAGCTTCGGTTTAAAAAA
GGTCAGTGTCTATCTGGAATTTCTATGTGAGAGGTGATGGAACCAGAGTTTACTTCTTCACACAAGAGGAACTG
GACACGCTTTTACCACCTGCTGGACTGGAAAAAGTTCAGAACCTGGTGGACCGCCGACTGCAGGTGAACCGAGGG
AAGCAACTGACAATGTACCGGGTTTGGATTCACTGCAAAATACTGCAAGCCCCTTCTGTCCAGCACCAGCTAAGAG
GCACCTGCTGCCAACACGATGCAAGCCCGTTGTGTTTCCGAGCTTTTTTTAAAAAAAATTTGTAGCACCGGGCA
TGGTGCATGCCTGTAATCCAGCCACTCAGGAGGCTGAGGCAGGGAGGATCCATTGAGCCAGGAGTCCAGCCTG
GGCAAAATAGCGAGAGACCCTGAATCTGAAAGTAATGATAAAATAAAAAGAATATAAATGAGGTCTCGTTGATGC
TGGACAATTCAAGAATTCAGACTTGAACCTTAAACCTAGGAAAAGTTACTTTGTATCAGGATTCTAACAATTATG
CTTCATATTTGTGAAGTCCTTTAAACATAATTTTCTCAAGTTCTTTCTTTGAGACCTCAATCTGTCTTAGCATT
TTGTAACATAAATACTGAAATTTTATTCAAAGGAATTGTAAACCTTAAACCACCAATTTATTTCCATGTGAAAAAG
TGTTATATATGACAAGTGTTTTTTGATTGTAATTGCGTTAAATCTTTTGAGAGTGTAATGCCGGGCTAGGCAAT
TGCAGTTAATACATACAGGGGTTAGTGAAGGGCTTATTAAGTTGTAGGGGAAGCAAGCTGGGAAGAATCAGATCA
GATATTTTCCTGAC

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FIGURE 1617

MPVDYEINAHKYWNDFYKIHENGFFKDRHWLFTEFPELAPSQNQNHLDWFLENKSEVCECRNNEDGPGLIMEEQ
HKSSKSLEHKTQTPPVEENVTKISDLEICADEFPGSSATYRILEVGCGVGNTVFPILQTNNDPGLFVYCCDFS
STAIELVQTNSEYDPSRCFAFVHDLCDDEKSYVPVPGSLDIIILIFVLSAIVPDKMQKAINRLSRLKPGGMVLL
PDYGRYDMAQLRFKKGQCLSGNFYVRGDGTRVYFFTQEELDTLFTTAGLEKVQNLVDRRLQVNRGKQLTMYRVWI
+ /CKPLLSSTS

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FIGURE 1618

CATGCTGAAAGCAGGGCGGGACCGGGGCGGTCTTCCAGCAGGGAAAATGGCGCTGGCCATGCTGGTCTTGGTGGT
TTCGCCGTGGTCTGCGGCCCGGGGAGTGCTTCGAACTACTGGGAGCGACTGCTACGGAAGCTTCCGCAGAGCCG
GCCGGGCTTTCCAGTCCTCCGTGGGGACCAGCATTAGCAGTACAGGGCCCAGCCATGTTTACAGAGCCAGCAAA
TGATACCAGTGGAAGTAAAGAGAATTCCAGCCTTTTGGACAGTATCTTTTGGATGGCAGCTCCCAAAAATAGACG
CACCATTGAAGTTAACCGGTGTAGGAGAAGAAATCCGCAGAAGCTTATTAAAGTTAAGAACAACATAGACGTTTG
TCCTGAATGTGGTCACCTGAAACAGAAACATGTCCTTTGTGCCTACTGCTATGAAAAGGTGTGCAAGGAGACTGC
AGAAATCAGACGACAGATAGGGAAGCAAGAAGGGGGCCCTTTTAAGGCTCCCACCATAGAGACTGTGGTGCTGTA
CACAGGAGAGACACCGTCTGAACAAGATCAGGGCAAGAGGATCATTGAACGAGACAGAAAGCGACCATCCTGGTT
CACCCAGAATTGACACCAAAGATGTTAAAAGGATAACTTCACAGTAAATCATTTCCTGAAATAGAGGAAGATT
CTTTACGTTGTTGTGCTTGTTTTTAAATCATCAGTATAGTTTAACACATTCTTTCTAAGCAGTTTTGTGTGGGAT
AATTTGAAGAATATATTATGAGTAACTCCGAAAATTTTGTATCCAAAGGCTCAATGGATTATGTTTCTATTA
TATACAAGGTTTTAAGTAAACATAAAATTTCCAGAACAAAAATAAAAAATTTAAATTCATAGCAAAAAAAAAA
AAA

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FIGURE 1619

MALAMLVLVVSPWSAARGVLRNYWERLLRKLPQSRPGFPSPPWGPALAVQGPAMFTEPANDTSGSKENSSLLDSI
FWMAAPKNRRTIEVNRCCRNPQKLIKVKNNIDVCPECGLKQKHVLCAYCYEKVCKETAETIRRQIGKQEGGPFK
APTETVVLTYTGETPSEQDQGKRRIERDRKRPSWFTQN

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FIGURE 1620A

CTCGGGCAGAGCGCTAGGGCTCCGAGCGAACCAGCGAGCGAGCGAACGAGCGGCGCTCGGCGGGNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
GGGTGCGGGTCTGGGCGCCGGAGCGGGGAGCGGGGCCGCGTCCCTCTCAGCGCCAGCTCTACTTGAGCCCCACGA
GCCGCTGTCCCCCTGGCGCGCTCGGGGCCGCGGGACGGGCGCACGCCGCTTCTCCTAGTCAAGTATCCGAGCCG
CCCCGAACTCGGGCGGCGAGTCGGCCACGGGAAGTTTATTCTCCGGCTCCTTTTCTAAAAGGAAGAAACAGAAG
TTTCTCCCAGCGGACAGCTTTTCTTTCCGCTTTTGTGGCCTGTCTGAAATCGGGGGTCCCCAGGGCTGGCAGGC
CAGGCTCGCTGGGCTCCTAATCTTTTTTTAATTTCCAATTTTGTATTGGGCCGTGGGTCCCCGCTGAGCTCCGG
CTGCGCGCGGGGGCGGGAGGGCGCGCGCAGGGGAGGGACCGAGAGACGCGCCGACTTTTTAGAGGGAGGGATCGG
GTGGACAACTGGTCCCGCGGCGCTCGCAGAGCCGGAAGAGTGTGTAAGGGACGCTCGGGGGACGCTGTTCCCT
GAGGTGTGCGCCGCTCCCTGTCTCGCCCTCCGCGGTGGGGGAGAAACCCAGGAGCGAAGCCAGAGCCCCGCGGC
GCGGCCGGCGGACGAACGAGCGCGCAGCAGCCGGTGC CGCGGCCGCGGCGAGGGCGGGGGAAGAAAACACCTGT
TTCTCTCCGGCCCCACCGCGGATCATGTACCAGGATTATCCCGGGAACCTTGACACCTCGTCCCGGGGCGAGCA
GCGGCTCTCCTGCGCAGCCGAGTCCTACTCCAGCGCGCGCGGCGGCCAGCAGAAATTCCGGGTAGATATGCCTG
GCTCAGGCAGTGCATTATCCCCACCATCAACGCCATCAGACCAGCCAGGACCTGCAGTGGATGGTGCAGCCCA
CAGTGATCACCTCCATGTCCAACCCATACCCTCGCTCGCACCCCTACAGCCCCCTGCCGGGCTGGCCTCTGTCC
CTGGACACATGGCCCTCCCAAGACCTGGCGTGATCAAGACCATTGGCACCCGCTGGGCCGAGGAGGAGAGATG
AGCAGCTGTCTCTGAAGAGGAGGAGAAGCGTCGCATCCGCGGGGAGAGGAACAAGCTGGCTGCAGCCAAGTGCC
GGAACCGACGCCGGGAGCTGACAGAGAAGCTGCAGGCGGAGACAGAGGAGCTGGAGGAGGAGAAGTCAGGCCTGC
AGAAGGAGATTGCTGAGCTGCAGAAGGAGAAGGAGAAGCTGGAGTTCATGTTGGTGGCTCACGGCCAGTGTGCA
AGATTAGCCCCGAGGAGCGCCGATCGCCCCCAGCCCCCTGGGCTGCAGCCCATGCGCAGTGGGGGTGGCTCGGTGG
GCGCTGTAGTGGTGAACAGGAGCCCCCTGGAAGAGGACAGCCCCCTCGTCTCTCGCGGGGGCTGGACAAGGCC
AGCGCTCTGTCAAGCCCATCAGCATTGCTGGGGGCTTCTACGGTGAGGAGCCCCCTGCACACCCCCATCGTGG
TGACCTCCACACCTGCTGTCACTCCGGGCACCTCGAACCTCGTCTTACCTATCCTAGCGTCTTGGAGCAGGAGT
CACCCGCATCTCCCTCCGAATCCTGCTCCAAGGCTCACCGCAGAAGCAGTAGCAGCGGGGACCAATCATCAGACT
CCTTGAACCTCCCCACTCTGCTGGCTCTGTAACCAGTGACCTCCCTCCCCAGCTCCGGAGGGGGTCTCTCTCG
CTCTCTCTTCCAGGGACCAGCACCTTCAAGCGCTCCAGGGCCGTGAGGGCAAGAGGGGGACCTGCCACCAGGGA
GCTTCTGGCTCTGGGGGACCCAGGTGGGACTTAGCAGTGAGTATTGGAAGACTTGGGTTGATCTCTTAGAAGCC
ATGGGACCTCTCCCTCATTATCTTGCAAGCAATCCCATTTCTTGAAAAGCCTTGGAGAAGCTCGGTTTGGTAG
ACTTGGACATCTCTTGGCTTCTGAAGAGCCTGAAGCTGGCCTGGACCATTCTGTCCCTTTGTTACCATACTGT
CTCTGGAGTGATGGTGTCTTCCCTGCCCCACCACGCATGCTCAGTGCCTTTTGGTTTTACCTTCCCTCGACTTG
ACCCTTCCCTCCCCAGCGTCAGTTTCACTCCCTCTTGGTTTTTATCAAATTTGCCATGACATTTTCATCTGGGTG
GTCTGAATATTAAGCTCTTCAATTTCTGGAGATGGGGCAGCAGGTGGCTCTTCTGCTGGGGCTGACTTGTCCAGA
AGGGGACAAAGTGCAATACAGAGCCTTCCCTACCCTGACGCTCCAGTCATCATCTCCAGAAGCTCCAGCGGGG
CTCCCTGAGCTCTCAAGGAGATGCTGCCATCACTGGGAGGCTCAGAGGACCCTTCTGCCACCTTCGGAGACGG
CTTCTGGAGGAACGGCTTGGCCAGAAGACAGGGTGTGAGTGAGACAGTGGGGCACAGGTTGGGTTTGCCAAACGC
CTAATTACCAGGCCAGGAAGCATGCCAACAAAGCCACACGGGTGTCTAGCCAGCTTCCCTTACCTGGTGTCTT
GAGTAGGGCGTCTCTGTAAATTACTGCCTTGCCATTCTGCCCTGGACCCTTCTCTCCGACCCAGGGAGGCGTCC
CTCCCTAGGAGCCACACATTATACTCCAAGTCCCTGCCGGGCTCCGCTTTCCCCACCCTGGCTCTCAGGGTGA
CGCCACCCACAGAGATTTAATGAGCGTGGGCTGGACCTTCCCAGATGCTGCCAGGCAGCCCCCTCCCCAAGCCT
CAAAGAAGCATTGTCTGAGGATGGAGAGGCAGGGGAGGGAGGCGGGAGGCCGTCACTGGAGTGGCGTCTGCAGCA
GCTGCTGCCCCAGCACCCGCTCAGCCTGTCTGGCTGCTCACCTCCCCGCAGGGCACCGGGCCTTTCTGCCCTC
TGTGGTCACTTGCCACCTGCTGGATCAAGTGCTTTCTCTTTTACACTCCCCTGTCCCCACCCAGTGCACTCTTC
TGGCCCAGGCGGAAGCAAGCTGTGAACAGCTGGCCTGAGCTGTCGCTGTGGCTTGTGGCTCATGCGCCATTCT
GGTGTCTGTTGAATCTTTCTGGCTGCTGGAGTTGGAGATAGGATGTTTGTCTTCCACTGCAGGAGAGCTGCCC
CCTTTACGGGGTTGGGGAAGGGTCCCCCTGGCCTCCAGCAGGAGCACAGCTCAGCAGGGTCCCTGCTGCCACC
CCTCTGAGCCTTTTCTCCCCAGGGTATGGCTCCTGCTGAGTTTCTTGTCCAGCAGGGCCTTGACAGGAATCCAGG
GAGTAGCTCCTGGCCAGAACCAGCCTCTGCGGGGCTTGTGCTCTGCAAAGACTCTGCTGCTGGGGATTGAGCTCT
AGAGGTACAGTATCCTCGTTTGAAAGATAATTAAGATCCCCCGTGGAGAAAGCAGTGACACATTACACAGCTG

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FIGURE 1620B

TTCCCTCGCATGTTATTTTCATGAACATGACCTGTTTTCTGTGCACTAGACACACAGAGTGGAACAGCCGTATGCTT
AAAGTACATGGGCCAGTGGGACTGGAAGTGACCTGTACAAGTGATGCAGAAAGGAGGGTTTCAAAGAAAAAGGAT
TTTGTTTTAAATACTTTAAAAATGTTATTTTCCTGCATCCCTTGGCTGTGATGCCCTCTCCCGATTTCCCAGGGG
CTCTGGGAGGGACCCTTCTAAGAAGATTGGGCAGTTGGGTTTCTGGCTTGAGATGAATCCAAGCAGCAGAATGAG
CCAGGAGTAGCAGGAGATGGGCAAAGAAAACTGGGGTGCCTCAGCTCTCACAGGGGTAATCATCTCAAGTGGTA
TTTGTAGCCAAGTGGGAGCTATTTTCTTTTTTGTGCATATAGATATTTCTTAAATGAAGCTGCTTTCTTGTCTTT
TATTTCTAAAAGCCCCCTTATACCCCACTTTGTGCAGCAAAGATCCCCGTGCAGGTCACAGCCTGATTTGTGGCC
AGGCTGGACAAATTCCTGAGGCACAACCTTGGCTTCAGTTCAGATTTCAAGCTGTGTTGGTGTGGGACCAGCAGA
AGGCAAACGTCAGCCAACACACAGGACTGTAAGAGGACTCTGAGCTACGTGCCCTGTGAAGACCCCCAGGCTTT
GTCATAGGAGGTGCTTCAGCTTCCCCAAAGTCAGAGGTGATTTGATTTGGGGAAGACTGAATATTCACACCTAAG
TCGTGAGCATATCCTGAGTTTTACTTCCTTATGGCTTGCCCTCCAAGTTCTCTCTCATACACACACACACCCCT
TGCTCCAGAATCACCAGACACCTCCATGGCTCCAGCTATGGGAACAGCTGCATTGGGGCTGCCTTTCTGTTTGGC
TTAGGAACCTCTGTGCTTCTTGTGGCTCCACTCGCGAGGCAGCTCGGAGGTGTGGACTCCGATTGGGCTGCAGGC
AGCTCTGGGACGGCACAGGGCGGGCGCTCTGATCAGCTCGTGTAACACACCCGTCTTCTTGGCCTCTGGCCAG
TCTTTCTGCGAATAGTCCTCTCCCTGGCCAGTTGAATGGGGGAAGCTGCTGGCACAGGAAGGAGAGGCGATCCCG
GCTGAGGCTTAGGAAATTGCTGGAGCCGGCTCCAAGCAGATAATCACTGGGGAGGTTTTTCAGAGTCAAACATCA
TTCTGCCTGTGTTGGGGGCCAGGTGTGTACACAAGCATCTCAAAGTCAAAGCCATCTGGGGCTGCTGCTTCTC
TTTCTCAGGCTCTGGGGAAGGAATCTCCCTCTCCTCTCACTTGATTCCAAGTGTGGTTGAATTGTCTGGAGCAC
TGGGACTTTTTTCTCTTTTCTTGTATGGACCAACAGTGCAATGCAATCTCGCCATTTAACTTTTCAAGTCTGATT
TCCTTTCTGATCAGACATCTTTGTGCCCCCTTTAGGAAGGAAAAGAATACACCTACGATGTGCCAGGCACTGTG
TTAGGCGCTTTTATATAGATCCTCGTTAGGATGAGACTAAGGGATGAGGACATCTCTTTATAAAAGGCCCTAAG
TAATGGATAAACAGAAACACTTAGAGGTGAGAAGGTCTGTCTTCAAGATCCAAGGTAAGATTGCCTTCACTCTGA
TGTTTGTCTCAAGGACTTATCCCTACAATATTCTCCCACTCCATACTTCTCCTTCTACCCACCATGTGCTCC
CGTGCCTCCTCAGATGGTCAGAGGGGTAAACCAAGTCCTTAGAGAATTTGGGGACCAATAGAATATGTGATGTG
TGAATTTTCTTTAAAAAATTAAGGAGTCTTTGCTACCTTCTGCTTGTGAGTTGTTTTGGCATTTCATATTAAAA
GCCAGCATCTCACTATTTATTGACAGGTGGGCTGTGTGTGTGCGCATGTGTGTATACATTTCCAGGCGTGCCTG
TGTCCTGTAGCTTTTTTAAAAGGAAACCCAGTCATCCCACTATGAATCTGGCATCTTCTTATGCTTCTAGTGT
GGCCATACATCAACCAAGGGGTTAATTTATCCAATGCTTGACGACATGTTTCAAGGAGGGGCTGGATCAAATTTG
AGAGGGTTATGGGAAAGGGAGGGGAGAAGAAATTGACATTTATTTTATTATTTTAAATGTTTACATCTTC
TTTATGTTGTATCAAGCCTGAATAGAACTGATAGCATTAAAAATACTCCGTTCCCTCTCTCTCTCTCTCTCTCT
TTTTTTTTTTTTTAAATTTAGGATAACACATTTTGTCTTAAAGTGATTTGTGATTTGTGCTGTATAAACTGTA
TAAAAGGTTCTGTTTTTAAAGGTGGATTTTCATTCTCTGGGGACAGTGGTCGCCAAGACATCTACATTGTAAGA
GAACACAGTGGAAGATCCTGTCTGATTCTCAAAAATTATTTCTCTGTATGATTAAAAGTTTATTCCATTTATT
TTAGTTTGTGTTTACTTGATTTTGGGAAGAAAATATTTGACTTTGTGTAAAGAGTAGGGTATCAGGGTGTCTTT
TCTGCGGTGGGAGATGTGTATATATATAGTATTTTGGTGTATAGTAGAAAATAAGCTTTGTGCATCTGTATTTGA
GATATGTTAATGACGTGGAGTAAAGTCAGCTGTAAGACTCTGGAGGCAAACAAGTTGTATATGGTTCATATGGCT
CTATGGGGAATTTAATTACCTTTCTGGGCACTTTCTTTTTTTTTTTTTCTTAAGTAATGGTGAAATGGTCCCAT
TGGAGAGTCTCCTAAATAGACCTTCCAGGCAGAACCGCAAGCTCAAAATCTTTGTATAGTTTGAATTTGAGGA
GTAGCTTTGTTTGAAGCCTTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
CAAGCCTACAGTATTTGCACTAAAGAAAGCTTGTTAGAAAAGCTTGCTGCTATGGAAGAAAGAACATATTAAAA
CTTCTTTCCCTTGCGATTTTTTGGGNGAGGGGGGTAGCATTTCCACTTTTCAG

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FIGURE 1621

MYQDYPGNFDTSSRGSSGSPAHAESYSSGGGGQQKFRVDMPGSGSAFIPTINAITTSQDLQWMVQPTVITSMNP
YPRSHPYSPPLPGLASVPGHMALPRPGVIKTIGTTVGRRRRDEQLSPREEEKRRIRRRERNKLAAAKCRNRRRELTE
KLQAETEELEEEKSGLQKEIAELQKEKEKLEFMLVAHGPVCKISPEERRSPPAPGLQPMRSGGGSVGAVVVKQEP
LEEDSPSSSSAGLDKAQRSVIKPI SIAGGFYGEELHTPIVVTSTPAVTPGTISNLVFTYPSVLEQESPASPSESC
SKAHRSSSSGDQSSDSLNSPTLLAL

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FIGURE 1622

CTGAGGCAGGGGTCTCTGGGGGCGAGGAGGGCGCGTCGCCCTCTGCCCCCGCCGGCACCCCTGGCCATGACAGGCA
AGTCGGTGAAGGACGTGGATCGGTACCAGGCTGTCCTGGCCAACCTGCTGCTGGAGGAGGATAACAAGTTTTGTG
CAGATTGCCAGTCTAAAGGGCCGCGATGGGCCCTCTTGGAACATTGGTGTGTTTCATCTGCATTTCGATGTGCTGGAA
TCCACAGGAATCTGGGGGTGCACATATCCAGGGTAAAGTCAGTTAACCTCGACCAGTGGACTCAAGAACAGATTCT
AGTGCATGCAAGAGATGGGAAATGGAAAGGCAAACCGACTTTATGAAGCCTATCTTCCTGAGACCTTTCGGCGAC
CTCAGATAGACCCAGCTGTTGAAGGATTTATTCGAGACAAATATGAGAAGAAGAAATACATGGACCGAAGTCTGG
ACATCAATGCCTTTAGGAAAAGAAAAGATGACAAGTGGAAAAGAGGGAGCGAACCAGTTCAGAAAAAAATTGG
AACCTGTTGTTTTTGGAAAGGTGAAAATGCCACAGAAAAAGAACCCACAGCTACCTCGGAAAAGCTCCCCGA
AATCCACAGCGCCTGTTCATGGATTGTTGGGCCCTTGATGCTCCTGTGGCCTGCTCCATTGCAAAATAGTAAGACCA
GCAATACCCTAGAGAAGGATTTAGATCTGTTGGCCTCTGTTCCATCCCTTCTTCTTCCGGTTCAGAAAGGTTG
TAGGTTCCATGCCAACTGCAGGGAGTGCCGGCTCTGTTCCCTGAAAATCTGAACCTGTTTCCGGAGCCAGGGAGCA
AATCAGAAGAAATAGGCAAGAAACAGCTCTCTAAAGACTCCATTCTTTCACTGTATGGATCCCAGACGCCTCAAA
TGCCTACTCAAGCAATGTTTCATGGCTCCCGCTCAGATGGCATATCCCACAGCCTACCCCAGCTTCCCCGGGGTTA
CACCTCCTAACAGCATAATGGGGAGCATGATGCCTCCACCAGTAGGCATGGTTGCTCAGCCAGGAGCTTCTGGGA
TGGTTGCCCCCATGGCCATGCCTGCAGGCTATATGGGTGGCATGCAGGCATCAATGATGGGTGTGCCGAATGGAA
TGATGACCACCCAGCAGGCTGGCTACATGGCAGGCATGGCAGCTATGCCCCAGACTGTGTATGGGGTCCAGCCAG
CTCAGCAGCTGCAATGGAACCTTACTCAGATGACCAGCAGATGGCTGGGATGAACCTTCTATGGAGCCAATGGCA
TGATGAACTATGGACAGTCAATGAGTGGCGGAAATGGACAGGCAGCAAATCAGACTCTCAGTCTCAGATGTGGA
AATAAAAAACAAACACCTGTATGGCTGCCATTCTCTTCAGCCCTCGCTCTCCCTTTCCACAGCCTCCACCCCTG
ACCCCCATCTCTTTTCTACCTCTCTGTTTGGTTTAGAAATTGCTCAATAAGTCATTGTTGGGGTTTGGCATCCTG
CCCAGCCACTTCCCAAACATGAAGACCTCTCTGTTGCTTTATGTTGTACATGCCCCATAGCCATCCCAACGTCTCT
CCCCAGTCTCTCTCTGGCACCAGCACCTTAGAAGTTGTTGGCAGAAGGCACTTAACTGTGGGAGAAGTGTGCAC
ACCTTTGAGTCCCTTCCCTCAAGGTTAAAGCTCCTGTGAGACTCTCAGAAGGGTCTGTGGGTGTTGTATATTAGG
CAAACAGGGGAAAGCTTAGAGGTCCTTCTATATGTGTTAATAAGCTGTTTCTAAGTGTTTAAATTTGAAAAGCAT
CATGTTCTCATGATTTATGGGAATGAAGCAAGTACTGAAATCAAATTAAATACTCCCTGGGTCTGGGTGAGTTT
GACCCTAGCCCTGGGGTGAGGCAAGCCCCCTCCTATGAGGATGAGCAAAAATACTACTCTCTTCGCCCTGAGTTG
CTTTCTGGATCTGGGGCTTCAGGACTTGCTGCTTCAGTCAGCTTTTATTAGCACCAAAGACTTTATGAAGATCCC
ACACACAGACACACATCCCTTCCCGCTCCCCCTGCCTTCAGTAGGATCTGGCTCCGTGGCTGGAGGACCAACC
CCTATAGTGGGAATGCAGAGCTTAACGTGTACTGCTTGTGTGTGTGCGTGAGTGTGTGTGTGTATGAGTGTGT
GTTCCGCTCCCAACCTCTCCCATCTGCTCTGGGTATTTTTGTTTTTGTAGTTTATAGGTTTACAACAGAGAG
GAATTAATTTATCAGCAGCCTAAACTGTTGTGTTTTTCTTATGGTTTAAAAACGCCATGTCATTGATAACTCC
CTTTCTCCCTTCCCTTCTCCCGGTCTGCTGATCACTCTTTCATGCCTGTGTATCCAGGGTGCTCTGTTTCCCCAC
CGTTCCCAGGTGTACGAGGCAGAGGGCCGGGACAGCTTTCCTCTCAGTCATTGTTACCCCACTTGAAAATTCAG
ACAAGAAAACCTTGCTTAAAGATTTTCATGTGTGGGAACCACAGTTCCTGGCTGCCTTCTCCTGTGTATGTGTA
AATTCCTTAATAAATATTGCAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1623

MIGKSVKDVDRYQAVLANLLLEEDNKFCA DCQSKGPRWASWNIGVFICIRCAGIHRNLGVHISRVKSVNLDQWTQ
EQIQCMQEMGNGKANRLYEAYLPETFRRPQIDPAVEGFIRDKYEKKKYMDRSLDINAFRKEKDDKWKR GSEPVE
KKLEPVVFEKVKMPQKKEDPQLPRKSSPKSTAPVMDLLGLDAPVACSIANSKTSNTLEKDLDLLASVPSPSSSGS
RKVVGSMP TAGSAGSVPENLNLFPPEPGSKSEEIGKKQLSKDSILSLYGSQTPQMPTQAMFMAPAQMAYPTAYPSF
PGVTPPNSIMGSMPPPVGMVAQPGASGMVAPMAMPAGYMGGMQASMMGVPNGMMTTQQAGYMAGMAAMPQTVYG
PAQQLQWNLTQMTQQMAGMNFYGANGMMNYGQSMGGNGQAANQTLSPQMWK

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FIGURE 1624

AAGGGTGAAATAGAAGATTATCGTTTGCTGACAGATATTTTGGGAATTGAAGATTACAATGGTGACATGGACTTC
AAAATAGCTGGCACTAATAAAGGAATAACTGCATTACAGGCTGATATTAAATTACCCGGAATACCAATAAAAATT
GTGATGGAGGCTATTCAACAAGCTTCAGTGGCAAAAAAGGAGATATTACAGATCATGAACAAAACCTATTTCAAAA
CCTCGAGCATCTAGAAAAGAAAATGGACCTGTTGTAGAACTGTTTCAGGTTCCATTATCAAAACGAGCAAAATTT
GTTGGACCTGGTGGCTATAACTTAAAAAACTTCAGGCTGAAACAGGTGTAACCTATTAGTCAGGTGGATGAAGAA
ACGTTTTCTGTATTTGCACCAACACCCAGTGCTATGCATGAGGCAAGAGACTTCATTACTGAAATCTGCAAGGAT
GATCAGGAGCAGCAATTAGAATTTGGAGCAGTATATAACGCCACAATAACTGAAATCAGAGATACTGGTGTAAATG
GTAAAATTATATCCAAATATGACTGCGGTACTGCTTCATAACACACAACCTTGATCAACGAAAGATTAAACATCCT
ACTGCCCTAGGATTAGAAGTTGGCCAAGAAATTCAGGTGAAATACTTTGGACGTGACCCAGCCGATGGAAGAATG
AGGCTTTCTCGAAAAGTGCTTCAGTCGCCAGCTACAACCGTGGTCAGAACTTTGAATGACAGAAGTAGTATTGTA
ATGGGAGAACCTATTTACAGTCATCATCTAATTCTCAGTGATTTTTTTTTTAAAGAGAATTCTAGAATTCTAT
TTTGTCTAGGGTGATGTGCTGTAGAGCAACATTTTAGTAGTATCTTCCATTGTGTAGATTTCTATATAATATAAA
TACATTTTAATTATTTGTACTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1625

ATGGCGCCGAAGGTTTTTCGTCAGTACTGGGATATCCCCGATGGCACCGATTGCCACCGCAAAGCCTACAGCACC
ACCAGTATTGCCAGCGTCGCTGGCCTGACCGCCGCTGCCTACAGAGTCACACTCAATCCTCCGGGCACCTTCCTT
GAAGGAGTGGCTAAGGTTGGACAATACACGTTCACTGCAGCTGCTGTCGGGGCCGTGTTTGGCCTCACCACCTGC
ATCAGCGCCCATGTCCGCGAGAAGCCCGACGACCCCTGAACTACTTCCTCGGTGGCTGCGCCGGAGGCCTGACT
CTGGGAGCACGCACGCACAACCTACGGGATTGGCGCCGCCGCTGCGTGTACTTTGGCATAGCGGCCTCCCTGGTC
AAGATGGGCCGGCTGGAGGGCTGGGAGGTGTTTGCAAACCCAAGGTG

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FIGURE 1626

MAPKVFRQYWDIPDGTDCHRKAYSTTSIASVAGLTAAAYRVTNLNPPGTFLEGVAKVGQYTFATAAAGAVFGLTTC
ISAHVREKPDDPLNYFLGGCAGGLTLGARTHNYGIGAAACVYFGIAASLVKMGRLEGWEVFAKPKV

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FIGURE 1627

AGGCCACAGGGCATGGATCAGCCCCACTGCATCTCAAGTGAAGTGTATAGCCAAGTCTTAAACCTCTCACGGGGC
AAGCCTGACACAGACCCCTTTAGATGCTCAGGCATACTGTTTCCATCCCGATTCCACTCTTCGGCTCTGACACG
TCCCTTGCAAAGTCTCCGCAGGTGCTGTGAAGAGCCTTCCATGGTAGAGATTTCTCTTAAGAGTGTGATTTCTCA
TAGGGCTAGTAAGGGAGATTGTATACCTGTTGTCCACAGTCTTCAGGCAGCTCCCCAGGTCTCTGAACCCAGAG
TGTGTCATTGGAGAGAGCAGTGACTGCGAGAGATGGTGGAGGCCGCTAAGCATGGTAGAGGCTAGAGGAAGTCT
TCCACAGGCAGTTGTGTTCCAGCAATTCCTCCCATCCTGCATGGTTCACACCAAGAGAACCTTCAGATCCTAC
TAGCAACCGTAGCACCTTCCACCCAGGGGACTCCCAGAAGCCAGTAAAGAGACCAGGAGCCACCTCAATCAGCAG
GACAGCCTCACTGCCCCCTTTGCGAGAGTCCCCCTTTGCCCATCCTTGAATGCACAGTCTCCCTGCTCATGCCCTTCA
TCCCTGCTTGGCTGTATGCACTGTCTATATTGCACTGAGAGAGGAAGGGACAGCAGGAGTGAGGTGAAGAGGG
TAGAGAGGGGGCAGGCTCGGCACCGGCCCTCCCAGCCCGGCCAGCCTGAGCTTGCTGCCCTCCAGTAGAGACA
TAGGGGCAGTGTGTTGCAAGGGAGGTGTTTCTGCCTGTCCCTGCCTGATGTCCCTGGTGGAGCAGGTACCTCCGGG
GGCAAGCCTCTGATTTGCACACCTGAAAAATCGCGGAATTGAGTTTCGATAGATTGATTTTTAAACTTTTTTG
AGTAGGGGGTATAGGGGAATCATTAAATTTAAATCATTAAAGATTCCCCTGCTCAAACCCAGATTCCCTGTGTACA
CATGCTATTTAGAGGGAATCAGAAAAATGCCAAGCCTTTTCTCTTTGAATGTGCTATTTTTATAACTGAACTTGT
ACATATGTATAAAGAGAGACACATCTTCCTTTTACTAACTGGATAAAAAAATCTTAAATAAAATGGAGTGAGATA
ATTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1628

MVEISLKSVISHRASKGDCIPVVHSLQAAPQVSEPQSVVIGESSDCERWWRP LSMVEARGSLSTGSCVPSNSSHP
AWFTPREPSDPTSNRSTFHPGDSQKPKREGATSISRTASLPLLQSPLCPS

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FIGURE 1630

MSSSSSSPRETYEEDREYESQAKRLKTEEGEIDYSAEEGENRREATPRGGDGGGGGRSFSQPEAGGSHHKVSVS
PVVHVRGLCESVVEADLVEALEKFGTICYVMMMPFKRQALVEFENIDSAKECVTFAADEPVYIAGQQAFFNYSTS
KRITRPGNTDDPSGGNKVLLLSIQNPLYPITVDVLYTVCNPVGKVQRIVIFKRNGIQAMVEFESVLCQAQKAKAAL
NGADIYAGCCTLKIEYARPTRLNVIRNDNDSWDYTKPYLGRRDRGKGRQRQAILGEHPSSFRHDGYGSHGPLLPL
PSRYRMGSRDTPELVAYPLPQASSSYMHGGNPSGSVVMVSGLHQLKMNC SRVFNLFCLYGNIEKVFMKTIPGTA
LVEMGDEYAVERA VTHLNNVKLF GKRLNVCVSKQHSVVP SQIFELEDGTSSYKDFAMSKNNRFTSAGQASKNIIQ
PPSCVLHYYNVPLCVTEETFTKLCNDHEVLTFIKYKVFDAPSAKTL SGLLEWECKTDAVEALTALNHYQIRVPN
GSNPYTLKLCFSTSSHL

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FIGURE 1631

GGCGGGCGAGCAAGCGAGCGGCGTCTCCACCAGCATCTGCCGCGGCCGCTTTGCCCGAAGCCCGGGGACGAACC
GACGGACCGACCGCCTGGCGCACGGACGCGGGCGCTCGCTTTGTGTTTCGGGGCTAGCGTCGGCGAGGCTTGAGCT
TGCAGCGCGCGGCTTCCCTGCTTTCTCGCGGCCACCCCGGCTCCGGCGGCCTCGGCGCGCGAGGGGCTGGAGGTG
CGGGAGCCGCTCTCCGCCGGTCCGGTCCCCGCGCGGCTGAGCCCAGGCCGCCAGCGCCGCGGCCCGCTGCGGTGTC
CCTGAGCTCCTGCTCCCCGCCGGGCTGCTCCGAGCAACGGTGCTTCGGAGCTCCAACTCGGGCTGCCGGGGCAA
GTGTCTTCATGAACCCAGAGGATGTCGGGAAGCACTACAAGGTCTGAAGTCAGTTGTTGCATCAAATACTTC
ATATTGGCTTCAATGTCATATTTTGGTTTTTGGGAATAACATTTCTTGGAATTGGACTGTGGGCATGGAATGAA
AAAGGAGTTCTGTCCAACATCTCTTCCATCACCGATCTCGGCGGCTTTGACCCAGTTTGGCTCTTCCCTTGTTGGT
GGAGGAGTGATGTTTCAATTTTGGGATTTGCAGGGTGCATTGGAGCGCTACGGGAAAACACTTTCTTCTCAAGTTT
TTTTCTGTGTTCTGGGAATTATTTCTTCTGGAGCTCACTGCCGGAGTTCTAGCATTGTTTTTCAAAGACTGG
ATCAAAGACCAGCTGTATTTCTTTATAACAACAACATCAGAGCATATCGGGATGACATTGATTTGCAAAACCTC
ATAGACTTCACCCAGGAATATTGGCAGTGCTGTGGGGCTTTTGGAGCTGATGATTGGAACCTAAATATTTACTTC
AATTGCACAGATTCCAATGCAAGTCGAGAGCGATGTGGCGTTCCATTCTCCTGCTGCACTAAAGATCCCGCAGAA
GATGTCATCAACACTCAGTGTGGCTATGATGCCAGGCAAAAACCAGAAGTTGACCAGCAGATTGTAATCTACACG
AAAGGCTGTGTGCCCCAGTTTGAGAAGTGGTTGCAGGACAATTTAACCATCGTTGCTGGTATTTTCATAGGCATT
GCATTGCTGCAGATATTTGGGATATGCCTGGCCAGAAATTTGGTTAGCGATATCGAAGCTGTGAGGGCGAGCTGG
TAGACCCCTGCAACCGCTGCTGCAAGACACTGGACAGACCCAGCTTTCCGGACCCTCCCGCGTGC~~CG~~AACTGAT
CTTCGAGCTGCATGGACCTAATCACAGATGCAGCCTGCAGTCTCGCCTAATGGAGCTGCCATTAGGGGAGTGTA
AACTGGGAAATGCTGCTCACTGACAGAATTAATAAAAAAAAAATAACCAGTATGAAAGTCGTTGCGCCGTGAATCTC
TACTGTAGCCATGAATTTATGGACAGTTAGATGCTTACCAAAAAAGAAAAAGGGAGGGTAGGGGACCCAGATG
TACTTGAATGTGCAGAAAATACATTCTTGTCTCATCTTCCGTAATTGGAGGGCTGGGAGAGGCAGCTTTGCTCT
TCACCACACCTTGGACGGACACCTTCTTCTGTTCATGGCCTGAAGGAGTGCATCTCCTCAAAGACTCAGCCC
CTCACCTGGGAGGGCAGTGGTTTGTGGGCATCCCTCCATGTACATTTTAGGAAACACTTGCAACTCTCATCTGAA
GAAGAAAACAACCTCATCTTTGGGTTGAGATTTTGTGATGGTATTCAGCAAGTCACTTGGGCGAGCACACTTGGTC
TATCCTGGAAAGTCTCCTTATAAGAGAAGTTGTGATTTTCATGTGCACCGAGCAAGGGCATTGGAAGACGTCATG
AGGCTGTATTTTAGCAGGACTGATCGTTTTTCTAAGTAGACCTGAGCTTTGTTTATCAGTGAAATTCAGGAGAA
AATGAGGTTAATGAAGAGGTATCAGTTAAATATCCCCTTCTTCTACCCCTGCCAAAATTAGCAGTTGGATTTTG
GAACTCTGGAATATTCTGGGTCAATTTGTTTTGTATGTTTGTGTTTTTCTGTTCTCAAAGGTGAAAGCTATGA
TACAGTTCCACTTAAATTTTAGTGTCTTCTTACTCAGCTCAAGCATTATTTTTGATTAAGTCTTAATCTGCATG
ACCTGTGAATCTGAATCCATCATCTCCCTTTCTGCCAGCTTTTCTACAAACATTGAAATATGTTATTTGGTCAG
CACTTATTTCTAGGTTACAGCCTTGGGAGGTTGTGGCATGTCCTCCAGTCTGGCTGGGAAGAGACCAGCTGT
ACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGATCTGAGTGGCCTTTTCTGCACCCCTCCCT
TCTTTCTCTTTGAATGGAATTAACCCAATTTGGAAACAACATTGACCCAGTCAAAGCTTCTAATGGTTTCTTT
TTCTTCTCCAGTTTATGTTTGTCTTTATTAATAAAAAAGAAATAGTGCATGGCCATAGCTCCTTCAGTTCTCTTA
TTGCAGACTAACCATCAGGATGGTATCAAAGCACAAATACTTTGGAGGGGAATGCGTTGAAGTGGGCAAGTACT
CTGTAACACAAAGTGGGAAACCACTTCTGGTGCTGCCGCTCCTGCCCCACTTTAGGTGGGAGGGACGATTTT
GCCCTCTAGATTTTAATCCAGCTGGTGTCACCGGATGTTGCCCTCCTGGGAGCAGATATCAGTCTGTGGAAC
CTGGGAAAACACAGGCACATTTTCCGGTGCGGACAGATTTGCCAGCACATACTGGGCAGCCAGCTAGAATACT
TTGTGGAAATTAAGCGAGGTTTCCATTTAGCCCCATGGTGATGGTGGTGGCCGATGAATGTGTCAGTCTGCT
CAGAGAAAGGACAAAAAGGAAATATTTTCAAACCTGTGTTCACTGTTTGGGTGTGTGATGGCTCTGCATGTGT
GTGTTTTTGTCTCTGTATAGGTAGAGGTATTCACATCTTACTCCGACTGTAAGGTTGTCTTACTTCATCTCTGCC
CCCACCACAGTTGCCATTTTGTAAATGTCCTTCCAACATGGAGAAGACACGAGCTCTCTCCAGTTGGCATCATTTG
TCTTTTTTGTGATTGCCTCATCTCCAGTGAATCCATCTGGCCAATTGATTGAGAAATCAGGCAAGATCCCTGC
CCTTTGGCACATCCACTGAAAGGCCAAACAGCAAGTCCGAGTGAGTTTTAAATATTAATTAATCACCCCTTATTT
TTTACACTTGAGAGTGATTGTAATAAAGGCTGTCATTAATAAACTTGGTTCTACCTAAAAA

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FIGURE 1632

MSGKHYKGPEVSCCIKYFIFGFNVIFWFLGITFLGIGLWAWNEKGVLSNISSITDLGGFDPVWLFLVVGGVMFIL
GFAGCIGALRENTFLLKFFSVFLGIIFFLTAGVLAFFVKDWIKDQLYFFINNNIRAYRDDIDLQNLIDFTQEY
WQCCGAFGADDWNLNIYFNCTDSNASRERCVPFSCCTKDPADVINTQCGYDARQKPEVDQQIVITYTKGCVPEQF
EKWLQDNLTIVAGIFIGIALLOIFGICLAQNLVSDIEAVRASW

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FIGURE 1633

GGGAACCCACAGGCGCGCGCCGCTGCTTCTGGCCGGGCGCGGGTCGTGGTGCACCACGGGAGCGCCGCACCGG
CCGGCATGGAGGAGCGCGGCGATTCCGAGCCGACCCCGGCTGCAGCGGCCTGGGTCCGGGCGGTGTTGCGGGCT
TTGGCGACGGCGGTGGAGCTCCTTCGTGGGCCCCCTGAGGACGCCTGGATGGGCACTCACCTAAGTATCTAGAAA
TGATGGAATTAGATATAGGAGATGCCACCCAAGTTTATGTAGCGTTCTTGGTTTACCTGGACCTCATGGAAAGCA
AAGCTGGCATGAAGTAACTGTGTAGGATTACCAGAACTCCAGCTCATCTGCCTTGTGGTACTGAGATAGAAG
GAGGGGTTACAGACTGTGGTGCCTACCCCATCACTGCTTCCCTCAGCCATAACAGGATAAGGGAGATCTTGA
AGCATCTCGAAAGTTGCAAGGTGATCCAGATTTGCCGATGTCTTTTACTTTGGCCATAGTGGAGTCTGATTCTA
CAATAGTCTATTATAAACTTACTGATGGATTTATGCTGCCAGACCCTCAGAATATTTCTCTTAGAAGATGACATC
ATGTTTCCGTATGCTTGTTTTATTCATACAAGATTGGATTGAGACCCATCAGACTGCTTCATCTTTTATCTCA
AAATAGGGTTGACGTACATAGTGAGGGTTGACTTCCCATTCATAAGGTTTTTATTCTGAAGAGTAAAACTTC
AGGTAGAAAGACTTTCTCCTTCTTAAAAAATATAGGGTGATTTCTTTAAACTTTTGTTATCTAGAGACAGTTT
TTACAGTTATATACAGGTTTATGCCTAGGATGTATTCAGATGGGTGGGACCTGTGTGCTGCTTTTGTTCATCCC
ACTCAAAGTTGTCTCTTTGTTTCTTGCTGCCACTGCCAGCTCATTGTTGAGACTGCCATTTCTTTCTCTTACT
CAGCTCTCCCCAGTGCCTTTTTGGCCACTGCAGCTACCGTAGAATGGCATTATATATGTACCTTGTACCCACTTC
TGTTTACTTTTTCTCTCCAGTAAAAAGTAAAAAGATTTCTTTCAATTGGTCTTCCCATTGCAGTTACTGTTATTT
CTCTTTTTTGGTTAACTTTAAATCAAACTCAAAATATGTTTCATCCAGAGTGTGTCTTAAGTAACTTACGTGTCT
TAAGTAACAGGGACCAGAGACATGTTACCTACAAGAGTTCTGGGCTATCCTTTTCACTTATCACATATCATAG
CTTGAATATTACAACAGTGTGGGAGAGAATCAACCGTAAAAATGTCTTCATTAATTAGACCCAGTTATTCCACTT
TTGTTAATGTCTCTCAAATTGTACAAAGTATAAAAAATTATATGCACAAAGATGTTCCAAGTGACATTACTTTTA
GTAGCCCAAATTATAAACCACTTTAAAGTTTGGGGTAAAGATTGGCAAACTTTTCTATAAAGGGCCAGAAAGTA
ACTATTTTAGGTTTTTAAACCTACTGTCTCTGTGCATAACTTGTCAACACTGCTGTATGAAGCACAAAAGCAGCCA
TAGACAATACATAAACAATACGGGCGTGGCTTTGTTCCAGTAAAACCTTTGTTTACAAATGTGGTGCCATAGTTTG
TCATCCCTGGGTCTAGGAAATAGTCAATAAACAGATATATACAAATGATACATAATGTACTTATTAATAAATTAGT
AATGAATATTATTAATAACATGAAAATATTACCTTAAGTAAAAATTGCAAGACGGAAAAGTGATAAGTGGGTGT
AATCATGGCTGAAATAACAGACCAAGCATATGATAAAAAGATAACAAAGTAAATCAAATTACTAACTGGTTATAG
TGGGATAGGAGGCAGAAAATGGATGACTTTGTCTTTTCTCAATGTTTTTATTTGTATTTTATAATAAAAAATGTTT
TAAATTAATAA

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FIGURE 1634

GTCGTGGCATTGAGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCGGAGAGAGA
GGCTCCAAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGGGGGGAGCCGAGGTTCCGGG
AAGGGGCTAGGCCGGCTTGAAAAGAGCTGGAACACAAGAAGTGTTTGTTTAATGAATGACGTACACATTTAAGAT
CTGTTTGGACGCGGAGGATAATCCTGTGAATTGCTAATAGTTCAC TGGGTTTGGCCCTTAGTGTTGACTTCAGTA
TGCTGAGACGGAAACCAACACGCCTAGAGCTAAAGCTTGATGACATTGAAGAGTTTGAGAACATTTCGAAAGGACC
TGGAGACCCCGTAAGAAACAGAAGGAAGAATGTGGGAAGGTTGTAG

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FIGURE 1635

GCGCGGACCTTTCAACAAGGGCTTTATTAATTCTCACGCTGCGGCCCTGGAAAGCGATGGAGGTGGCGGCTAATT
GCTCCCTACGGGTGAAGAGACCTCTGTTGGATCCCCGCTTCGAGGGTTACAAGCTCTCTCTTGAGCCGCTGCCTT
GTTACCAGCTGGAGCTTGACGCAGCTGTGGCAGAGGTAAACTTCGAGATGATCAATATACACTGGAACACATGC
ATGCTTTTGGGAATGTATAATTACCTGCACTGTGATTTCATGGTATCAAGACAGTGTCTACTATATTGATACCCTTG
GAAGAATTATGAATTTAACAGTAATGCTGGACACTGCCTTAGGAAAACACGAGAGGTGTTTCGACTTCCTACAG
ATTTGACAGCATGTGACAACCGTCTTTGTGCATCTATCCATTTCTCATCTTCTACCTGGGTACCTTGTCAGATG
GAACTGGAAGATTGTATGTCATTGGAACAGGTGAACGTGGAAATAGCGCTTCTGAAAAATGGGAGATTATGTTTA
ATGAAGAACTTGGGGATCCTTTTATTATAATTCACAGTATCTCACTGCTAAATGCTGAAGAACATTCTATAGCTA
CCCTACTTCTTCGAATAGAGAAAGAGGAATTGGATATGAAAGGAAGTGGTTTCTATGTTTCTCTGGAGTGGGTCA
CTATCAGTAAGAAAAATCAAGATAATAAAAAATATGAAATTATTAAGCGTGATATTCTCCGTGGAAAGTCAGTGC
CACATTATGCTGCTATTGAGCCTGATGGAAATGGTCTAATGATTGTATCCTACAAGTCTTTCACATTTGTTTCAGG
CTGGTCAAGATCTTGAAGAAAAATATGGATGAAGACATATCAGAGAAAATCAAAGAACCTCTGTATTACTGGCAAC
AGACTGAAGATGATTTGACAGTAACCATACGGCTTCCAGAAGACAGTACTAAGGAGGACATTCAAATACAGTTTT
TGCCTGATCACATCAACATTGTACTGAAGGATCACCAGTTTTTTAGAAGGAAAACCTCTATTCATCTATTGATCATG
AAAGCAGTACATGGATAATTAAAGAGAGTAATAGCTTGGAGATTTTCCTTGATTAAAGAAGAATGAAGGACTGACCT
GGCCAGAGCTAGTAATTGGAGATAAACAAGGGGAACCTTATAAGAGATTTCAGCCCAGTGTGCTGCAATAGCTGAAC
GTTTGATGCATTTGACCTCTGAAGAACTGAATCCAAATCCAGATAAAGAAAAACCACTTGAATGCTCAAGAGT
TAGAAGAATGTGATATTTTCTTTGAAGAGAGCTCCAGTTTATGCAGATTTGATGGCAATACATTAAAACTACTC
ATGTGGTGAATCTTGAAGCAACCAGTACCTTTTCTCTGTCATAGTGGATCCTAAAGAAATGCCCTGCTTCTGTT
TGCGCCATGATGTTGATGCCCTACTCTGGCAACCACACTCCAGCAAACAAGATGATATGTGGGAGCACATCGCAA
CTTTCAATGCTTTAGGCTATGTCCAAGCATCAAAGAGAGACAAAAAATTTTTTGCCTGTGCTCCAAATTACTCGT
ATGCAGCCCTTTGTGAGTGCCTTCGTGAGTATTCATCTATCGTCAGCCTGCTCCCATGTCCACTGTACTTTACA
ACAGAAAGGAAGGCAGGCAAGTAGGACAGGTGCTAAGCAGCAAGTAGCAAGCCTAGAAACCAATGATCCTATTT
TAGGATTTTCAGGCAACAAATGAGAGATTATTTGTTCTTACTACCAAAAACCTCTTTTAAATAAAAGTAAATACAG
AGAATTAAATTATTCTAACATATTGGCCTCTTTGTACTGGAAAAGTATTCAGTGGTACCTGGAGGTCTGGACAGTT
ATACTGTAACCTCTTAAGTTTTAATGTGCTAAATATATCTTGTATGATTTTTTATTTTTTAATAACATTGGAAAT
ATATTCAAGAGATTATGATTCTGTAAAGCTGTGGAATGAAGCTGCAGATTTAGAGAACATTGGCTTCTGAAAAA
AAAAAGAGTGAAGATAGTACTAGCAAGTATACTTATTTTTTAAAAACAGGCTAGAATCTCATGTTTTATATGAAAG
ATGTACAATTCAGTGTTTAAAAATAAAAAATATTTATTGTGTAAAAA

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FIGURE 1636

ADLSTRALLILTLPWKAMEVAANCSLRVKRPLLDPRFEGYKLSLEPLPCYQLELDAAVA EVKLRDDQYTLEHMH
AFGMYNLYHCDSWYQDSVYYIDTLGRIMNLTVM LDTALGKPREVFR LPTDLTACDNRLCASIHFSSSTWVTLSDG
TGRLYVIGTGERGNSASEKWEIMFNEELGDPFII IHSISLLNAEEHSIATLLLRIEKEELDMKGS GFYVSLEWVT
ISKKNQDNKKYEIIKRDILRGKSVPHYAAIEPDGNLMIVSYKSFTFVQAGQDLEENMDEDISEKIKEPLYYWQQ
TEDDLTVTIRLPEDSTKEDIQIQFLPDHINIVLKDHFLE GKLYSSIDHESSTWIIKESNSLEISLIKKNEGLTW
PELVIGDKQGELIRDSAQCAAIAERLMHLTSEELNPNPDKEKPPCNAQELEECDIFFEESSSLCRFDGNTLKTTH
VVNLGSNQYLF SVIVDPKEMPCFCLRHVDV DALLWQPHSSKQDDMWEHIATFNALGYVQASKRDKKFFACAPNYSY
AALCECLRRVFIYRQPAPMSTVLYNRKEGRQVGQVAKQQVASLETNDPILGFQATNERLFVLTTKNLFLIKVNTE
N

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FIGURE 1637

GTCTGGGGAGATTGGAGGGGACGGCAGCGTTCTGCATGACGGAGGCGCTGCCGGGCCCCGGGTCTGTGGGGGCC
GTGCTCTCAGGGCGTGTGCGGGACGCCACCTGTGCACACCTGCTCAGAGCACGGCTCCTCGCAGGGGTGAAGGGG
CAGACCAACGAAACCAGATGAGACCAACGACACCATGCGAGACACGCTTGACAGACACTGTTGTTTTGGAAATGTG
CTTCCCTCCATCTGAAATCTCATCCCTCCACCCGCCCACTCGGGCAGCTGTGCCGTGGGCAGGGCATGCGCTCCC
CTGGCTGAGCACCCCAGAGATTCTCCTGCACCTTCCTCATGCCGCACGCTGCTCATCCGTCTCCATGTGTGTTTA
GATCCATGCCATTCACTGACTCACTAACACCTGCAAAATCTTTAAGGAAAAAAGCTGAAGGGTACGACCATGCAC
ATATGTGACCTGGAAAATGCAAATTTAGATCTTTTATGATTAAATTATTATTGTTTCCCATAGAAGTCCCTCCC
TTTGAAATTAATATATAATGTATAAATTCTGCACTGAGCCATGGCGGAGCTGGGCAGCCCCTAGGTTAGAGTGGA
GACGGAGGCCCAGGCGCAGGGGTACACCTCATCTGGTTTCCTTCCCATCTCACAGCTTAGCTTGTGCTTCTCAA
CACCAAGTCTTTAAGAGCAATAAAAACTACACCATGAATGTTTGAATTTTTTTTTTTTTGGGGGGGGAGGGTGGA
TTTTGCTTTTCATCCAGAAGGAAAAGGGGAGGAGAGCTCCTTTACATTTTTTAAATTAAATTCATAAATCCCAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1638

GGCACGAGGGAGACGGACTCTTGCTATGTTGCCCAGGCTGGTCTTGAATCCTGGCCTCAAGCAATCCTCCTGCC
TCAGCCTCCCAAAGCACGGGGATTACAAACCCTGCTGAGGGATGCCCAAGAAGTTCCAGGGTGAGAACACCAAGT
CGGCAGCGGCCCGGGCACGGAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATG
CCTACTGGAAGGACGACGACAAACACGTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGCGCCTCG
ACCAGCTGGAACGTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGC
CGCGGGTGCCACGTCCAGCAAGGTCACCCGGGCCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGG
AGGCCCCGGACACAGCCGAGAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCGTGC
TGGAGGAGGGCAGCGTGGAGGCGCGACCATCGAGGACGCCATTGCAGTGCTCAGCGTGGCGGAGGAGGCGGCCG
ACCGGCACCCAGAAAGACGCATGCGGGCAGCCTTACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAG
AGAACCCCAACATGCGGGCTGTCGCAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCA
TGAACAGCGGGCCGTGCCCTTCAATGCCCCCAAGTGAGCCCAAGAACTTGGGGAGCCAGTTCACCCACGGGGTGG
TCCAGGTACGACTCTGCACGCCCTTAGGCCAGGTGAGCTGCGAGGGTCACAGAGCGTTCCGGGGGCCAAGGCGC
CGGGCCCCGGGGCCATGCTCTTATCACCAGCCACCCGTCCTCCCGCCAGAGGGTCCCTGCCCCGAGTGACACCCC
ATCCCTCCCATCCCCCGGCGCGTGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCTAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1639

MPKKFQGENTKSAAARARRAEAKAAADAKKQKELEDAYWKDDDKHVMRKEQRKEEKEKRRLDQLERKKETQRLLE
EEDSKLKGGKAPRVATSSKVTRAQIEDTLRRDHQLREAPDTAEKAKSHLEVPLEENVNRRVLEEGSVEARTIEDA
IAVLSVAEEAADRHPERRMRAAFTAFEEAQLPRLKQENPNMRLSQLKQLLKEWLRSPDNPMNQRAVPFNAPK

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FIGURE 1640

TTTTTTTTATCATTGACAATGTTTATTATCAAGAACTTTAGGTTTTTTAAAAGAATGCTCGTTTTAGAATACAC
CAAGAGGACACTCTGTGACAGGACATATACAAACAAGGATAATTTAAATATTTAAATACTATCTAAATTAAAAGAC
CATAATTCAAATTGCTAATTATAATATTTGTGTCGGTAGAAATAACTATAGTTCCCCTTCATGAAATTCACCCCC
ACGTTCTCATGAAGACTATGACGTCTCACCACAATTTAGTTATTTAATTTACAATAATCAATGCTGAGTTTTCT
GTGCTGAAGCATGCACTGTTACAGAAAGCACAAATCCTATTTACAGGGATTTTTAGTTTTCTTTAAATGTATC
TCAAGCATCTTTTAAAGTGCAGCTACAAATAGGTTGTATCCTTAATGAAAAAGGCTTCTTTCTAAAAGAAGTAT
GAGATAGCTATCCAATACTGCAGGAACAGTTATATACTAACCAGGAACCAGCAGCACTCTGCTAACTCTGTT
TTAGTGTAGCAACCTCCTTCTTGGTGTTCTACTACCAGCCAXACATGTACTCCATTGCTTTGGATACCAGACTTT
CATCTTTTTTTGGCGTTTGTCTGTCAGAAATACCCTGATAATCACTAGTAGAGGC

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FIGURE 1641

GGCAGATCTCACGAGAGAGGATTTGGCGCCCTCCTCTGTGGATTCTGGCCAGGCCGGGTTTCGGCGGTTGCTGTGA
GAGCGGGCTTCCCAACACCATGCCGTCCGCCTTCTCTGTGAGCTCTTCCCCGTCAGCATCCCAGCCGTGCTCAC
GCAGACGGACTGGACTGAGCCCTGGCTCATGGGGCTGGCCACCTTCCACGCGCTCTGCGTGCTCCTCACCTGCTT
GTCCTCCCGAAGCTACAGACTACAGATCGGGCACTTTCTGTGTCTAGTCATCTTAGTCTACTGTGCTGAATACAT
CAATGAGGCGGCTGCGATGAAGTGGAGATTATTTTCGAAATACCAGTATTTGACTCCAGGGGGATGTTCAATTC
TATAGTATTTTTCAGCCCCACTGCTGGTGAATGCCATGATCATTGTGGTTATGTGGGTATGGAAGACTTTGAATGT
GATGACTGACCTGAAGAATGCACAAGAGAGAAGAAAGGAAAAGGAGAAGGAAAGAAGACTGAGGGGCAGC
AGCTGCTTGGAGTTTTCGCTCCTTCCCGTCCACCCAGTGCAGCTCCAGTGTGCGTGGCGTGGGCATC
CTTCCAGCTGACTCATGGTTTGAAAAACCGTTGTTTTATTTAAATATCCACAGTGGTAGGGCACACACTGAAGTT
GGCTTTTTCAGCCAGCACTGAATGTATCCATCAGGACATGCGTCTTCAGGTGCCTGATCTTTGTAGTCAGGCTGTG
GGAACGGTCTCTGCAGAGCTTCATAACTGGGAATTTGATTGGAAGTCCATGTATATGTGTAAGTACTACTA
ATTATAAATATAAATACACAATATAAATATGAACTCAATAATAAACAGTGCCACCTGTACATGGGCACCATG
CCCTCCTCCTCGTGCTGTGTTTTCTAGTGCATGCCACAGTTCGAGTAGAGGGTGTTCACCTTCCAAGACATG
GGGCAAAGTTTGGAGACACCTGGTTGTCACTGGAGGGGTGGTGCTCCTGGCTTCTCCTGTGGAGCCCGGGTGA
TGCATAAAATCCTGTGTGCCTGGGTGAGCCGCATCACAGACAATGACTTGACATGAAATGTCAGCTGTGCTGGGG
CAGAGAGACCTTGAAGGAAGCTCTTGGAATAACGTTGTATCTCAGTTTGATGAACCAATTCACAAGAGGCTAG
GCCCTCTCTAGCAAAGTTATGGGCTGCTTTACTGAAAACAGAATGGAAGCCCTGAAGTCAACACTCCATGGAGAA
GCGTGTCTTTCTAATGTCCTGGTGTCTGTGATTTAGGTGCTTGGGAACACAATGCTCCAGTTCTGTAGGA
CAGGCATACTGTTACTTTGCAATATCCACTTTATAAATAGCTCCTGCCAGTGGCTCTTGTTCTGTCAAATG
TGGACCTGTAGTTTAAGAATGACAGGTGGTTAGAGACCCAGATATTTAAAAATAGGTGTTCAATAAGGGAATACT
GATTGTGCATTGTATCTGGATAGCATGCCTAATTGTGCATTTCTGAAAGTTACCAATTCAAAATGTAATTGGAAC
AGTTATCTTTGATTAGACAAGCCTGGGAAGAGAATGTTGAGGTGCAGAGCTCACCAGCCAAGTTTCATGCCCCCTCT
CGGGCCTTTGTGGCTGAGAAGTGGGACAGAAAGATGATTAAGGTAATGTGTCTCCTCCCTGTAGCATTGTCCAGGGC
CGTTGTGTAGATATTTGACTTCACTGACAGAAAAGAAACCAGGGAGTTTGTAGAGACTGTGCATTTTTTAGTATAA
CATTTTACCACCTCTGATATGGTTTGGCTTTGTGTCCCCACCCAAATTCATCTCAAATTGTAATCCCCATGTGTC
AAGGGAGGGACCTGATGGGAGGTGATGGGATCATGGGGGTGGTTTCCCTATGTTGTTATCATAATAGAGAGGGA
GTTCTCACAAGATCTGCTGGTTTTAAAGACAGCAGTTTCCCTGCTGTCAGTGTCTCTCCTGCTGCCTTGTGA
AGAAGTGCTTGTCTCCTCTGCCATGATTGTAAGTTTCCCGAGGCCTCCCGGCCATGTGGAAGTGAAGTCAA
TTAAACTTCTTGTGTTTATAAAGTAAAAA

CGACGCCCGGCGGCCGGAACGCCCGCGCGCGGACTCCATCGTCAGAGAAGTCATTTCAGAATTCAAAAGAAGTTC
TAAGTTTATTGCAAGAAAAAACCTGCCTTCAAGCGCGTCTTGAATTATCCAGGCAGGTGACGACAACCTTGA
TGCAGGAAATCAACCAGAATTTGGCTGAGGAGGCTGGTCTGAACATCACTCACATTTGCCTCCCTCCAGATAGCA
GTGAAGCCGAGATTATAGATGAAATCTTAAAGATCAATGAAGATACCAGAGTACATGGCCTTGCCCTTCAGATCT
CTGAGAACTTGTTTAGCAACAAAGTCCTCAATGCCTTGAACCAGAAAAAGATGTGGATGGAGTAACAGACATAA
ACCTGGGGAAGCTGGTGCGAGGGGATGCCCATGAATGTTTTGTTTACCTGTTGCCAAAGCTGTAATTGAACTTC
TTGAAAAATCAGGTGTCAACCTAGATGGAAGAAGATTTTGGTAGTGGGGGCCCATGGGTCTTTGGAAGCTGCTC
TACAATGCCTGTTCCAGAGAAAAGGTCCATGACAATGAGCATCCAGTGGAAAACACGCCAGCTTCAAAGCAAGC
TTCACGAGGCTGACATTGTGGTCTTAGGCTCACCTAAGCCAGAAGAGATTCCCTTACTTGGATACAACCAGGAA
CTACTGTTCTCAACTGCTCCCATGACTTCCTGTGAGGGAAGGTTGGGTGTGGCTCTCCAAGAATACATTTTGGTG
GACTCATTGAGGAAGATGATGTGATTCTCCTTGCTGCAGCTCTGCGAATTGAGAACATGGTCAGTAGTGGAAGGA
GATGGCTTCGTGAACAGCAGCACAGGCGGTGGAGACTTCACTGCTTGAAACTTCAGCCTCTCTCCCCTGTGCCAA
GTGACATTGAGATTTCAAGAGGACAAACTCCAAAAGCTGTGGATGTCCCTTGCCAAGGAGATTGGATTGCTTGCAG
ATGAAATTGAAATCTATGGCAAAAGCAAAGCCAAAGTACGTTTGTCCGTGCTAGAAAGGTTAAAGGATCAAGCAG
ATGAAAAATACGTCTTAGTTGCTGGGATCACACCCACCCCTCTTGAGAGAAGGGAAGAGCACAGTCACCATCGGGC
TTGTGCAGGCTCTGACCGCACACCTGAATGTCAACTCCTTTGCCTGCTTGAGGCAGCCTTCCCAAGGACCGACGT
TTGGAGTGAAAAGGAGGAGCCGCGGGTGGTGGATATGCCCAGGTCATCCCCTGAGGAGTTCAACCTTCACTTGA
CTGGAGACATCCACGCCATCACCGCTGCCAATAACTTGCTGGCTGCCGCCATCGACACGAGGATTCTTCATGAAA
ACACGCAAAACAGATAAGGCTCTGTATAATCGGCTGGTTCCTTTAGTGAATGGTGTGAGAGAATTTTCAGAAATTC
AGCTTGCTCGGCTAAAAAACTGGGAATAAATAAGACTGATCCGAGCACACTGACAGAAGAGGAAGTGAGTAAAT
TTGCCCCGTCTCGACATCGACCCATCTACCATCAGTGGCAGAGAGTATTGGATACAAATGACCGATTTCTACGAA
AAATAACCATCGGGCAGGGAAACACAGAGAAGGGCCATTACCGGCAGGCGCAGTTTGACATCGCAGTGGCCAGCG
AGATCATGGCGGTGCTGGCCCTGACGGACAGCCTCGCAGACATGAAGGCACGGCTGGGAAGGATGGTGGTGGCCA
GTGACAAAAGCGGGCAGCCTGTGACAGCAGATGATTGGGGGTGACAGGTGCTTTGACAGTTTTGATGAAAGATG
CAATAAAACCAAACCTGATGCAGACCTGGAAGGGACACCTGTGTTCTGTCATGCGGGCCCTTTTGCTAACATTG
CTCACGGCAACTCTTCAGTGTTGGCTGATAAAATTGCCCTGAAACTGGTTGGTGAAGAAGGATTGTAGTGACCG
AAGCTGGCTTTGGTGCTGACATCGGAATGGAGAAATCTTCAACATCAAGTGCCGAGCTTCCGGCTTGGTGCCCA
ACGTGGTTGTGTTAGTGGAACGGTGCGAGCTCTGAAGATGCATGGAGGCGGGCCAAGTGTAACGGCTGGTGTT
CTCTTAAGAAAGAATATACAGAGGAGAACATCCAGCTGGTGGCAGACGGCTGCTGTAACCTCCAGAAGCAAATTC
AGATCACTCAGCTCTTTGGGGTTCCCGTTGTGGTGGCTCTGAATGTCTTCAAGACCGACACCCGCGCTGAGATTG
ACTTGGTGTGTGAGCTTGCAAAGCGGGCTGGTGCCTTTGATGCAGTCCCCTGCTATCACTGGTCCGTTGGTGGAA
AAGGATCGGTGGACTTGGCTCGGGCTGTGAGAGAGGCTGCGAGTAAAAGAAGCCGATTCCAGTTCTGTATGATG
TTCAGGTTCCAATTGTGGACAAGATAAGGACCATTGCTCAGGCTGTCTATGGAGCCAAAGATATTGAACTCTCTC
CTGAGGCACAAGCCAAAATAGATCGTTACACTCAACAGGGTTTTTGAAAATTTGCCCATCTGCATGGCAAAGACCC
ACCTTTCTCTATCTCACCAACCTGACAAAAAAGGTGTGCCAAGGGACTTCATCTTACCTATCAGTGACGTCCGGG
CCAGCATAGGCGCTGGGTTCATTTACCCTTTGGTGCGAACGATGAGCACCATGCCAGGACTGCCACCCGGCCCT
GCTTTTATGACATAGATCTTGATACCGAAACAGAACAAGTTAAAGGCTTGTTCTAAGTGGAACAAGGCTCTCACAG
GACCCGATGCAGACTCCTGAAACAGACTACTCTTTGCCTTTTTGCTGTCAGTTGGAGAAGAACTGAATTTGAAAA
ATGTCTGTTATGCAATGCTGGAGACGTGGTGAAATAGGCCAAAGATTTCTTCTCGTTCAAGATGAATTTCTGTTT
ACAGTGGAGTATGGTGTTCGGCAAAAGGACCTCCACCAAGACTGAAAGAACTAATTTATTTCTGTTTCTGTGGA
GTTTCCATTATTTCTACTGCTTACACTTTAGAATGTTTATTTTATGGGGACTAAGGGATTAGGAGTGTGAACTAA
AAGGTAACATTTTCCACTCTCAAGTTTTCTACTTTGTCTTTGAACTGAAAATAAACATGGATCTAGAAAACCAA
AAAAAAAAAAAAAA

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FIGURE 1643

GTCCTCTCTGCTCTCGCGCCGACTCGCAAGATGGCGCCGCAGAAAGACAGGAAGCCCAAGAGGTCAACCTGGAG
GTTTAATTTGGACCTTACTCATCCAGTAGAAGATGGAATTTTTGATTCTGGAAATTTTGAGCAATTTCTACGGGA
GAAGGTTAAAGTCAATGGCAAACTGGAAATCTCGGGAATGTTGTTTCACATTGAACGCTTCAAGAATAAAATCAC
AGTTGTTTCTGAGAAACAGTTCTCTAAAAGGTATTTGAAATACCTTACCAAGAAATACCTTAAGAAGAACAATCT
TCGTGATTGGCTTCGAGTGGTTGCATCTGACAAGGAGACCTACGAACTTCGTTACTTCCAGATTAGTCAAGATGA
AGATGAATCAGAGTCGGAGGACTAGGCAAAGGCTCCCCTTACAGGGCTTTGCTTATTAATAAAATAAATGAAGTA
TACATGAGAAATACCAAGAAATTGGCTTTTAGTTTATCAGTGAATAAAAAATATTATACTCTTG

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FIGURE 1644

SSLLSRPTRKMAPQKDRKPKRSTWRFNLDLTHPVEDGIFDSGNFEQFLREKVKVNGKTGNLGNVVHIERFKNKIT
VVSEKQFSKRYLKYLTKKYLKKNLNRDWLRVVASDKETVELRYFQISQDEDESESED

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FIGURE 1645

CTAACTTTGAGTCAACGCTGACTACAGCACCAGGACTGCTCACTTCCAGCTTCTGCTGACACCTGCCCTCGTTTA
GTCTTTCTTGGTGGCTGCAGGTTCACTAGAACTCTATGCCAGGCTTTGTCTCCGGGACATAGGAGAGTGCTGGT
GCTCAGTCATGTTTGTGAATGAGTAATAAATGGTAAAGGTTGTTGCTGCCCCGAGACGCTTCAAGAGGAAGCAG
CCCCCTAACCCAGCTGGGAGGAGGAGGAAGAATCTGGGCTGGTCAGTTGGGGAAGGAGCTGAGCAGGCCGGGC
CTTGGGCTGACACAGCAGCAGCACCACGTGGATGGGATGCCTGCAGTCAGCTGCAGGAGGGCCTCGTCGGGAG
CAGGGCCCCCTCTTTGTCTTGAATGGAGACCTCCAAGGCTCCAGGACATAAAGGGCCTTGCCAAGCTGTT
GGCCACCTGGCCACATCTCCAGCTGCACCAGTTCTCACCTCCATTCCCCACGGCCCCAGCTGTCAGGTTTTA
GGGTGGCAGAGAGCTCCATGCACCCCTGGCCTTGGCCTCTTCTGGGGCTTAGAGCTCCAGGACTTTTGGGCCTG
TCCCTCAGCGTCCCCTCTTACGACTCCGGCGAGGACGGCCAGGTGCCTGGTGGACTCTTGACGTGCTCAGC
GAGACCTCATGTGCGCTGTCCTGAGCCACCTGTGTCTCAGATGTTCCAGGTCATCCAGCCAGAGCGTGCG
TACATCCAGGCCAACAACTGCGTGGAGGCCAAGGACTGGATCGACATTCTCACCAAAGTGAGCCAGTGCAAC
AAGCGCCTCACCGTCTACCACCCGTCCGCCTACCTGAGCGGCCACTGGCTGTGCTGTAGGGCGCCATCCGAC
TCCCTCCGGGCTGCTCGCCCTGCACTGGCGGCCTCCCAGCCAACATCCAGCTGGACATTGATGGGGACCGTGAG
ACGGAGCGTATCTACTCCCTCTTCAACTTGTACATGAGCAAGCTGGAGAAGATGCAGGAGGCCTGTGGGAGCAAA
TCTGTGTATGACGGCCCGGAGCAGGAGGAGTATTCGACGTTTCGTTCATTGACGACCCCCAGGAGACCTACAAGACG
CTAAAGCAAGTCATCGCTGGGGTTGGGGCTTTGGAGCAGGAGCAGGCCAGTATAAGAGGGACAAGTTCAAGAAG
ACGAAATATGGAAGCCAGGAGCACCCCATCGGAGACAAGAGCTTCCAGAACTACATCCGGCAGCAGTCCGAGACC
TCCACTCATTCCATTAAAGTCTGCGGGACGCGCCAGTGGCGCCAGCAAGCTGCCCATGCAAAGCCGAGCCTT
TGGGAGGGAGAAGAGAAGGAAGAGCGCAGAGCCGGCAAAGTGAGATGCACGCCGTCCCGGCCATAGACAAGTGG
CGCTGGGGTTTTCCCTCTCCAGAACCGCTGCCACCACCGCCACGCCCTCCGCAGAAAGCCACCTGGCCCTGTGG
AACGTGTGCTCATTTGATTCTGTGCTTTTGTCTCTTGTGTTGGGGATCTGGGGATCAGCTGAAGGATCAGGAA
GTGTGGGCTGTGCCCTAGCCACACCACAGCCAGCCTCAGGGAGCCACGGCCCGTCTAGTCGACTGTGACATGCAC
CTCCGGCCGTGTGTGCGTCAGTCTCGTGCACGTCTGTCTTGCCTTGCACGGTGCCTGTGACGCTGGGCTCTGTGG
CTCTGTGCCCCGGGAGGCCTGCTGGCCCCGCCTCGGCTTTCGGCTTCATCACATTGGGAGGTTTACAGCATTACTC
TCCCCTGTGCTGCCATCCAGGCAGCCATGGGAGGCGGCCTCCCTGTTCCACTTTCGAGGTTTCGTTTGATTCTT
GGCTGAGGGGTCAGTTTTATGGCTGGGAGGTGCAGAATTACACAGAAGTCCCAGTCTGAGGATGTCCTTGGTGCT
TGGGGGATACGGGTTCTGTCCACAGAGTCCCTTGGAGGGAAAGGTGTGGGCTCCAGCTTCTCCAGGCGTCTGCGG
AGCCACAGTTGAAGCCCACATCGTTTTGCTGTTGAATGGGGTTTAAATCAGAATTAACATTTGCCACCCCCCG
TGGAAGTTTGAAGATTTTAAAAATAGAAATGTACATTTTTCAAGCTGTTTTCTTTATGTTTTTGAAGGACCATT
TTTAATTAGCTCTTTGATACAAAGTAACCTCAGAACGTCAAAACCTATACCCACTAAAGGGAAGGCTGCCGGGAAG
GCAAATGGAACAGGAATGGAGCCTGTCTCAGGAAGGCCAGCTGCAGGTCTCCAGAAAATCAAAGAAGGGAAGAA
ACTCTGAGTTTGAAGTACAGGGGCTTCGGGGTGACAGCTCCCTCCAGGGCCCCATGGTCAGTATTGCACCTGTGT
TATGAACCCCCAGATGCTGTGCAGGGCAGGGGCGGGGGCTGCTGTTTTATTGGGGAGGGGAGCATCCTAAAAATG
GGGTCCAGGCAGACCCCTCCAGACCTCACACTGCCGAGGAGGCCTTTCCCAAAGGGCGTCTCCCGGGATGCAGA
CGGCAGGTGTGTGGGAAGCGCCGTTTAAATACACAGCAGCAGCTATCCTTGTACCGACTTCTCCCGGTTCTTGTT
TGAAAATACTGTAGTTTCAAGCTCTTGATCTAGATGGCAGATAGGAACCTTCTTGTACAAAAATACTGGAGGAAA
ATGTTGTAAAAATAGACTTTTGGACACACAGCTGTTGGGGCTGCACTGAGCTGCAATTTTTAACATGGATTTATA
ACTTAATGTTTCTGTTTATAAAATACTAATGATTGCAATGTATTTTACTGGCCAATTAACAGATGTTTTATT
CTTCTGAA

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FIGURE 1646

MFQVIQPERALYIQANNCVEAKDWIDILTKVSQCNQKRLTVYHPSAYLSGHWLCCRAPSDSAPGCSPCTGGLEPAN
IQLDIDGDRETERIYSLFNLYMSKLEKMQEACGSKSVYDGPEQEEYSTFVIDDPQETYKTLKQVIAGVGALEQEH
AQYKRDKFKKTKYGSQEHPIGDKSFQNYIRQQSETSTHSI

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FIGURE 1647A

ATGGCAAAGCAACCTTCTGATGTAAGTTCTGAGTGTGACCGAGAAGGTAGACAATTGCAGCCTGCGGAGAGGCCT
CCCCAGCTCAGACCTGGGGCCCCCTACCTCCCTACAGACAGAGCCACAAGACAGGAGCCCAGCACCCATGAGTTGT
GACAAATCAACACAAACCCCAAGTCCTCCTTGCCAGGCCTTCAACCACTATCTCAGTGCAATGGCTTCCATGAGG
CAGGCTGAACCTGCAGATATGCGCCAGAGATATGGATCGCCCAAGAGTTGCGGCGTATTGGAGACGAGTTTAAAC
GCTTACTATGCAAGGAGGGTATTTTTGAATAATTACCAAGCAGCCGAAGACCACCCACGAATGGTTATCTTACGA
CTGTTACGTTACATTGTCCGCCTGGTGTGGAGAATGCATTGACAGGTTCTTTGCGGAGCCGAGATACCATGCAGA
CATTTTGGCTTGTTCAAACCAACAAGACCCAGCACC GCGGTCTCCTGGTGCCATTATTATGCAGCCAGCGGTTCTC
TTGTGGAGGGGGCAGGTGACGTTTCAGAAGACACCGAGCTGGATGGGACTACCTTTCTGTTTCATCACCACACAGC
AGAATTTCTAATGGAAGTTTGTGTGAATGTAAAGGAGGGAGCATTCTTTGCTTTTTAATATACAAACCATGGTT
TTTTGGAGCAGGATTTTGTGTGAAGAATGGTGTTTACATGCAGTGTGTTTTCCCCCTCACCTTCAATAAGGTTTTT
CAAAAAGGAAATGGAACTTTTTAACCAATTTGTGAATAACTTTTGTATTAAATTTTAAAGAACCTACGGCCTAT
TCTCAGAGGATTATGTAACCCCTGCAGTGGAACTGAGCCAGCTAACTTAAAAAGCTGCCTTAGTTTTATTTTTAG
AGATTACAGAAATTTTAAACAGGGAGACGTGTGATATACTCCCTCCCTTCCCTACTATTGCCTCTCTGACCTTTT
TAAATTTATTTTAAATACCAAAAGAGTTCTTTTGAAATGGAAGTATTAAAGGGCAGAGGGTCTGTTGCCAGCCT
GCATTGATATACCAGTCCCATTTGTAAATATTTACGTACCTTTATAAATTCAGTTGCATCTGTGGCAAAATTTCA
GACTATTTTTGCGTCTTTCCCTCATCACTTTTTGTGATGCAACTCCAGTCTGGACTCAGATGCATAGATTTGGTCC
AGTGTATTTTCATGATAAAGTGAAATTGAGTCAGAACAAAGAGTTAATATCTGCCTGTATCTTGCACAGTTTCGAGC
GATCTGTTATTAACTGGGAAGCATTITGGTGTGGTTTTTCATTCCATTTTCGACGAGCATGTTATTGGGAAGTATTC
TGAAGAGGCAATAGCAGTAATAACAACAGACTTAAGTGCTACGCCCCTTTGTGCTGCTGGCTTTTTCTGGTTGCAG
GCTTTCCCATGGTTCACAGGATGCAGTGTGCAGCATCAGGTCCTCAGAGGGCCACCGTGTCCATTACAGCAGAGTCCA
GCTGCAGCATCCAGCTCACGCCCTCATGGGAATTGGCACAGGCCTGGGGCAGGGCTTCTGATGGCCATTTGCTTG
GCCTCCTGCATTTTAGTCCAACTCACAGTCCACTAGCTTCACCTCTTAAATTCACTTTGAAACAGGCCTCATCC
CACTTCCACCAGCACCATAGAAGAATAATTCTGGGCAGAACTGTGTTTTTTTTTCATTTTTCCAGGACAGTTGGAT
ATTGTCAGGCCACTTGTGACCCAGCCATGTAGTGAGGGTGTCTTTCTCTGTGCTGCTCCTTATGAGTGCAGT
GGAAGGAAGCCACACACTGGTCAGTCATTTAGAGGCAGCAGATGCCAGGGAGACCCAAGAAAGAGTCAGGTTA
GGGAGCAGTGAAAGTGAGGAGGGAAGACAATTCTGTGAACCTCTGTAACCTCTTAAATTTTTGAAAACCTCCATCGT
TAAACAACCTTTTAAAGAAATAACTAAATTTCAAATGAGTAAGCAGTGCCACCAACTAGTGTTTTGCCGATAG
AAGAGCCAGCATGTTTCAGTTATTTAAATTAGGTGGAAAAATCTAAACATTTTTATCTTCATAATTTAAAAATA
TATATGTATATATTGCATATTCATTTTTCTTTAGGTAGAGATGATTTCAATCCAAATACTCTTACTTTAAAAA
ATTTCTTTTCCCAAGAATCTCCTTGGGACTTTGACTTATTTTTAAAGCTGTGTTGGAGCTCATCTGTTCCTTG
ATGTGTCTCGAGCCCATTTGGTAGGGTCATACAAAGCCACGGTTACAAGCAGTGGTAGGATTGCAGCCGTGGGCC
TGCTGGACACACACATACACCAAGATGTATTGGATCTGGGCACCCCTCCCAGGATCCCTGTACTCACGTGCC
AGTCTCCTGACTAGAGCACTTTACTCTGTTTCTCAGCCCTGCAGCCCTGGGAGCACACACTGGGTGCAGCCCT
GGGCCAGGCACGGGAGGCCCTGCCCTGTGCTGCCAGGGGCTGTGTGCACCACATGAGCACATTTCCCTCTGGCC
TGGCGGCCCTCCAGGCTGGCTGTGGAAACAGTTCTGAGGAAATTAGAGATTCTATGAATTGTAGGAGTATTAAG
ACCAGGCTGTTGGCACCAGAACTTAAAGCGATGACTGGATGTCTCTGTACTGTATGTATCTGGTTATCAAGATGC
CTCTGTGCAGAAAGTATGCCCTCCCGTGGGTATACGTTTTTACCTTTTTTAAAAAACATTTTTGTAGAAAAATAA
TTAAATCCCCTTTTTGGAACTTACTGCAGGTTTTGTGCCTTGACAACCTCTCCCTATGTGAGGTTTGTAAAAAG
TGTCTGTGACTTAACACAGAAACGCAATAAACACACACAAAAATAGTTTTCATGAGTGATTCTTCAGATGCCCTTC
CCAACCTGGTTAGTTGATCAAGAATTTTGGGGGTGGGGGTGCGGAGAAATCAAGTTTAAATTCCTTCTGATTAA
AAAAATATAGTGAATACAAATTGTCTGCCGTTTTCCCTTCTTAATGTATATATTGTGAGTATTTATTAGATTCGT
AGGTCAATTACTTATCAACTGAGCCAAATGTCTGTGTGCAATTGTGTTTCTTTACCTTGTAATTTTGTACA
GCATAAATAAGTAAAAAATCACTGTTTTTCTCAACTTTTTCAAAATCAAGGATTGTAAATATTGTAGATTCTTT
TTCTGTGTGATGTGTCCTACTGTTTCATAATGCTGTAACTTGTAGAAATATTGTATATTTATTTTCTGCTTATTT
AATGCTTAATTTCTGAAAAGTATTAACATCCCTGTCTCCCACTCCCTGCCGTCCCATGAAGTTAACTCCTGAG
AGTTGTGCGGGGTGACTGGAGAGCTCATTGCAGACCAGTGGTCTCCAGGGTGGCTCTCCACCTTCGGGTCTGTG
GTATTTCCAGTCAAGTGGGTTTCAATTCCTGGGCTTTGCCGCCCTTATGATGAAGTGTGTGTTTGTATGCCAGTGA
GAACTCAGTCTGGCAGGCTACAAAATTTACTCCAAGAAATACCCAGCAACCTTCTGTTTGTTCAAAGCAACT

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FIGURE 1647B

AGCTTATCATGCAAGCAAATTTTGCTGACTCCAGGCTTTATCTTTAGGAAAACAAAAAACCAAAGTATTATCAG
CAGGTGGGAAAGATTTTTCTATTGAAAATTTATCCCTGACAACCTCAGCGTTTAGAAAAGAAATAAAATGTGCCAC
TTCCAGAGGTGCTGCATTGCAGTTGTTTCAGGGCTAGGGCCAGGCAGGACAAGTGAATGGGTGGGACAGGTGGCTC
CTGCCTAAGGACCACCTCAGGCCACTAACCCCTTGTGGACAACCTGTGAGTAGCTGGGTTTTCCCCACCTGCTGT
GCAACTTCCTGTGCTTTGAGGTTGGACTAACTTGTCTTCAGGAGCTAATTAACCTGTACAGCCCTCCCCACGCCCC
ACCCATACGGTCACTGCATTGGTCAGCCTGCTTCTTCAGGTCGATGCCCTCCTTCTGATACTCCATCTCCTTCA
GGGAGGTTGGGGCCCCACTGGACTGGGTGTCAAGATGTGAAAGCTTATGGGAGCTTTAAGGAGACTTCATGGTG
GTTCCATGCAGGTGGTTCTGCCATCCCTGCTGATTTAGCCTGGTGCCTGTGTGTGTCCACTCACGTACACGTGGG
GTGGGGGAAACGTGTCTACAGATGACGCTAAATCAGTTGGGGTCTACTCTAAACAGCATTGTGTGTAAGAAGCAT
CCTCAAGCTCCCAGTTAAGTAACTTGACTACTTTTATTTGGGAATTTAGACTATAGAAGCTCTCTTATGTTTTA
TGTCCAGATTCTGTGACCACTAGTTACTGTATCAGAACTCATCAGGTACCCACTTATAAATAGCACTGATCTGGC
TGTATACTGATCCATCACTAACCTGTTTTCTAGGACCCAGCGTATGTAGCATTGTATTGCAGTTTCCCTGGCTT
ACTTGTGTTTTGCACTGATGAATTTTGACAGGGTAATTGCCACTTTACTTGTGCAATACTGCTGTAAATAACTGC
AGATTTTTAAACAATCTTTTATGTTAATTTTATAAAAATAAACTTTCAACTAGTTTTAAACAAAAC

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FIGURE 1648

MAKQPSDVSSECDREGRLQPAERPPQLRPGAPTSIQTEPQDRSPAEMSCDKSTQTPSPPCQAFNHLYLSAMASMR
QAEPADMRPEIWIQAQLRRIGDEFNAYYARRVFLNNYQAAEDHPRMVILRLRLRYIVRLVWRMH

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FIGURE 1649

GTGCAGTTGCGGCTCCAGGGCCATGGCGGAGGAGCAGGGCCGGGAACGGGACTCGGTTCCCAAGCCGTCGGTGCT
GTTCTCCACCCAGACCTGGGCGTGGGCGGCGCTGAGCGGCTGGTGTGGACGCGGCGCTGGCGCTGCAGGCGCG
CGGGTGTAGCGTGAAGATCTGGACAGCGCACTACGACCCGGGGCCACTGTTTCGCCGAGAGCCGCGAGCTACCGGT
GCGCTGTGCCGGGGACTGGCTGCCGCGAGGCCCTGGGCTGGGGCGGGCCGCGGCGCCGCGCTCTGCGCCTACGTGCG
CATGGTTTTCTGGCGCTCTACGTGCTGTTCTCGCCGACGAGGAGTTCGACGTGGTAGTGTGCGACCAGGTGTC
TGCCTGTATCCAGTGTTTCAGGCTGGCTAGACGGCGGAAGAAGATCCTATTTTACTGTCACTTCCCAGATCTGCT
TCTACCAAGAGAGATTCTTTTCTTAAACGACTATACAGGGCCCCAATTGACTGGATAGAGGAATACACCACAGG
CATGGCAGACTGCATCTTAGTCAACAGCCAGTTCACAGCTGCTGTTTTTAAGGAAACATTCAAGTCCCTGTCTCA
CATAGACCCTGATGTCTCTATCCATCTCTAAATGTCACCAGCTTTGACTCAGTTGTTCTTGAAAAGCTGGATGA
CCTAGTCCCCAAGGGGAAAAAATTCCTGCTGCTCTCCATCAACAGATACGAAAGGAAGAAAAATCTGACTTTGGC
ACTGGAAGCCCTAGTACAGCTGCGTGGAAGATTGACATCCCAAGATTGGGAGAGGGTTCATCTGATCGTGGCAGG
TGGTTATGACGAGAGAGTCCCTGGAGAATGTGGAACATTATCAGGAATTGAAGAAAATGGTCCAACAGTCCGACCT
TGGCCAGTATGTGACCTTCTTGAGGTCTTTCTCAGACAAACAGAAAATCTCCCTCCTCCACAGCTGCACGTGTGT
GCTTTACACACCAAGCAATGAGCACTTTGGCATTGTCCCTCTGGAAGCCATGTACATGCAGTGCCCAAGTCATTGC
TGTTAATTCGGGTGGACCCCTGGAGTCCATTGACCACAGTGTACAGGGTTTCTGTGTGAGCCTGACCCGGTGCA
CTTCTCAGAAGCAATAGAAAAGTTCATCCGTGAACCTTCCTTAAAAGCCACCATGGGCCTGGCTGGAAGAGCCAG
AGTGAAGGAAAAATTTTCCCTGAAGCATTACAGAACAGCTCTACCGATATGTTACCAAAGTCTGGTATTAATC
AGATTGTTTTTAAGATCTCCATTAATGTCATTTTTATGGATTGTAGACCCAGTTTTGAAACCAAAAAAGAACCT
AGAATCTAATGCAGAAGAGATCTTTTAAAAAATAAACTTGAGTCTTGAATGTGAGCCACTTTCCTATATACCACA
CCTCCCTGTCCACTTTTCAGAAAAACCATGTCTTTTATGCTATAATCATTCCAAATTTTGCCAGTGTTAAGTTAC
AAATGTGGTGTCATTCCATGTTTCAGCAGAGTATTTTAATTATATTTTCTCGGGATTATTGCTCTTCTGTCTATAA
ATTTTGAATGATACTGTGCCTTAATTGGTTTTTCATAGTTTAAGTGTGTATCATTATCAAAGTTGATTAAATTTGGC
TTCATAGTATAATGAGAGCAGGGCTATTGTAGTTCCAGATTCAATCCACCGAAGTGTTCACTGTCTCTGTTAG
GGAATTTTTGTTTGTCTGCTTTGCCTGGATCCATAGCGAGAGTGCTCTGTATTTTTTTTAAAGATAATTTGTAT
TTTTGCACACTGAGATATAATAAAAGGTGTTTATC

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FIGURE 1650

MAEEQGRERDSVPKPSVLF~~L~~HPDLGVGGAERLVLD~~A~~ALALQARGCSVKI~~W~~TAHYDPGHCF~~A~~ESRELPVRCAGDWL
PRGLGWGGRGA~~A~~AVCAYVRMVFLALYVLF~~L~~ADEEFDVVCDQVSACIPV~~F~~RLARRRKKILFYCHFPD~~L~~LLTKRDSF
LKR~~L~~YRAPIDWIEEYTTGMADCILVNSQFTAAVFKETFKSLSHIDPDVLYPSLNVT~~S~~FDSV~~V~~PEKLDDLV~~P~~KGKK
FLL~~S~~INRYERKKNLTLALEALVQLRGRLTSQDW~~E~~RVHLIVAGGYDERVLENVEHYQELKKMVQQSDLGQYV~~T~~FL
PSFSDKQKISLLHSC~~T~~CVLYTPSNEHFGIVPLEAMYMQCPVIAVNSGGPLESIDHSVTGFLCEPD~~P~~VHFSEAIEK
* :REP~~S~~LKATMGLAGRARVKEKFSPEAFTEQLYRYVT~~K~~LLV

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FIGURE 1651A

CGACTCCTTAGAGCATGGCATGGCTCAGAGGTGCTGGTAAACTGATGGGGGTTTTTGTCTGTCCCTCCCCTCAGC
GCCGACACCAATGTGGATCCAGGTTTCGGACCATGGACGGGAGGCAGACCCACACGGTGGACTCGCTGTCCAGGCTG
ACCAAGGTGGAGGAGCTGAGGCGGAAGATCCAGGAGCTGTTCCACGTGGAGCCAGGCCTGCAGAGGCTGTTCTAC
AGGGGCAAACAGATGGAGGACGGCCATACCCTCTTCGACTACGAGGTCCGCCCTGAATGACACCATCCAGCTCCTG
GTCCGCCAGAGCCTCGTGCTCCCCACAGCACCAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCCGGCTGC
TGCCTGGGCCAGAGTGAGTCAGACAAGTCTCCACCCACGGCGAGGCGGCCGCCGAGACTGACAGCAGGCCAGCC
GATGAGGACATGTGGGATGAGACGGAATTGGGGCTGTACAAGGTCAATGAGTACGTGATGCTCGGGACACGAAC
ATGGGGGCGTGGTTTGAGGCGCAGGTGGTCAGGGTGACGCGGAAGGCCCTCCCGGGACGAGCCCTGCAGCTCC
ACGTCCAGGCCGGCGCTGGAGGAGGACGTCAATTTACCACGTGAAATACGACGACTACCCGGAGAACGGCGTGGTC
CAGATGAACTCCAGGGACGTCCGAGCGCGCGCCCGCACCATCATCAAGTGGCAGGACCTGGAGGTGGGCCAGGTG
GTCATGCTCAACTACAACCCCGACAACCCCAAGGAGCGGGGCTTCTGGTACGACGCGGAGATCTCCAGGAAGCGC
GAGACCAGGACGGCGCGGGAACCTCTACGCCAACGTGGTGTGGGGGATGATTCTCTGAACGACTGTCCGATCATC
TTCGTGGACGAAGTCTTCAAGATTGAGCGGCCGGGTGAAGGGAGCCCCATGGTTGACAACCCCATGAGACGGAAG
AGCGGGCCGTCTTGCAAGCACTGCAAGGACGACGTGAACAGACTCTGCCGGGTCTGCGCCTGCCACCTGTGCGGG
GGCCGGCAGGACCCCGACAAGCAGCTCATGTGCGATGAGTGCGACATGGCCTTCCACATCTACTGCCTGGACCCG
CCCCTCAGCAGTGTTCCAGCGAGGACGAGTGGTACTGCCCTGAGTGCCGGAATGATGCCAGCGAGGTGGTACTG
GCGGGAGAGCGGCTGAGAGAGAGCAAGAAGAAGGCGAAGATGGCCTCGGCCACATCGTCCTACAGCGGGACTGG
GGCAAGGGCATGGCCTGTGTGGGCCGACCAAGGAATGTACCATCGTCCCGTCCAACCACTACGGACCCATCCCG
GGGATCCCCGTGGGCACCATGTGGCGGTTCCGAGTCCAGGTGAGCGAGTCCGGGTGTCCATCGGCCCCACGTGGCT
GGCATAACGGCCGGAGCAACGACGAGCGTACTCCCTAGTCTGGCGGGGGGCTATGAGGATGACGTGGACCAT
GGGAATTTTTTACATACACGGGTAGTGGTGGTCGAGATCTTTCGGGCAACAAGAGGACCGCGGAACAGTCTTGT
GATCAGAACTCACCAACACCAACAGGGCGCTGGCTCTCAACTGCTTTGCTCCCATCAATGACCAAGAAGGGGCC
GAGGCCAAGGACTGGCGGTGCGGGAAGCCGGTCAGGGTGGTGCGCAATGTCAAGGGTGGCAAGAATAGCAAGTAC
GCCCCCGCTGAGGGCAACCGCTACGATGGCATCTACAAGGTTGTGAAATACTGGCCCCGAGAAGGGGAAGTCCGGG
TTTCTCGTGTGGCGCTACCTTCTGCGGAGGGACGATGATGAGCCTGGCCCTTGACGAAGGAGGGGAAGGACCGG
ATCAAGAAGCTGGGGCTGACCATGCAGTATCCAGAAGGCTACCTGGAAGCCCTGGCCAACCGAGAGCGAGAGAAG
GAGAACAGCAAGAGGGAGGAGGAGGAGCAGCAGGAGGGGGGCTTCGCGTCCCCAGGACGGGCAAGGGCAAGTGG
AAGCGGAAGTCGGCAGGAGGTGGCCGAGCAGGGCCGGGTCCCCGCGCCGGACATCCAAGAAAACCAAGGTGGAG
CCCTACAGTCTCACGGCCCAGCAGAGCAGCCTCATCAGAGAGGACAAGAGCAACGCCAAGCTGTGGAATGAGGTC
CTGGCGTCACTCAAGGACCGGCCGGCGAGCGGCAGCCCGTTCCAGTTGTTTCTGAGTAAAGTGGAGGAGACGTTT
CAGTGTATCTGCTGTCAGGAGCTGGTGTTCGGGCCATCACGACCGTGTGCCAGCACACGTGTGCAAGGACTGC
CTGGACAGATCCTTTCGGGCACAGGTGTTAGCTGCCCTGCCTGCCGCTACGACCTGGGCCGAGCTATGCCATG
CAGGTGAACCAGCCTCTGCAGACCGTCTCAACCAGCTCTTCCCCGGCTACGGCAATGGCCGGTGATCTCCAAGC
ACTTCTCGACAGGCGTTTTTGCTGAAAACGTGTGCGAGGGCTCGTTTCATCGGCACTGATTTTGTCTTTAGTGGGCT
TAACTTAAACAGGTAGTGTTTCTCCGTTCCCTAAAAAGGTTTGTCTTCTTTTTTTTTTATTTTTATTTTTCAAA
TCTATACATTTTCAGGAATTTATGTATTCTGGCTAAAAGTTGGACTTCTCAGTATTGTGTTTAGTTCTTTGAAAA
CATAAAAGCCTGCAATTTCTCGACAAAACAACAAGATTTTTTAAAGATGGAATCAGAACTACGTGGTGTGGA
GGCTGTTGATGTTTCTGGTGTCAAGTTCTCAGAAGTTGCTGCCACCAACTCTTTAAGAAGGCGACAGGATCAGTC
CTTCTCTAGGGTTCTGGCCCCAAGGTGAGAGCAAGCATCTTCTGACAGCATTTTGTCTATCTAAAGTCCAGTGA
CATGGTTCCCCGTGGTGGCCCGTGGCAGCCCGTGGCATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAAGGA
AAAGAGGAAACATCTCGGGCCTAGTTCAAACCTTTGCCTCAAAGCCATCCCCACCAGACTGCTTAGCGTCTGAG
ATCCGCGTGAAGAGTCTCTGCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAGGGGACTCTGC
TCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCACGGACGGACGCCAGCACACGAAGTCA
CGTGCAAGTGCCCTTGATTGTTCTCTTTCTAAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAAAA
TTATAGATCATTTACATTCAATTTTTTAACTCAGCAAGTGAGAACTTACAAGAGGGTTTTTTTTTAATTTTTTT
TTCTCTTAATGAACACATTTTCTAAATGAATTTTTTTGTAGTTACTGTATATGTACCAAGAAAGATATAACGTT
AGGGTTTGGTTGTTTTTGTTTTTTGTATTTTTTTCTTTTGAAGGGTTTGTTAATTTTTTCTAATTTTACCAAAGT

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FIGURE 1651B

TTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAAACTGGAGCAATGTTATTTT
TAAAGGGTTTTTTTCACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTTGTTAGGCT
TTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGATTGAAAAAAAAAA
AAA

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FIGURE 1652

MWIQVRTMDGRQTHTVDSLSRLTKVEELRRKIQELFHVEPGLQRLFYRGKQMEDGHTLFDYEVRLNDTIQLLVRO
SLVLPHSTKERDSELSDTDSGCCLGQSESDKSSTHGEAAAETDSRPADEDMWDETELGLYKVNEYVDARDTNMGA
WFEAQVVRVTRKAPSRDEPCSSSTRPALEEDVIYHVKYDDYPENGVVQMNSRDVRRARTIIKWQDLEVGQVVML
NYPDNPKERGFWDYDAEISRKRETRTARELYANVVLGDDSLNDCRIIFVDEVFKIERPGESEPMVDNPMRRKSGP
SCKHCKDDVNRLCRVCACHLCGGRQDPDKQLMCDECDMAFHICYLDPPLSSVPSSEDEWYCPECRNDASEVVLAGE
RLRESKKKAKMASATSSSQRDWKGGMACVGRTKECTIVPSNHYGPIPGIPVGTMRFRFRVQVSESGVHRPHVAGIH
GRSNDGAYSLVLAGGYEDDVDHGNFFTYTGSGGRDLGNGKRTAEQSCDQKLTNTNRALALNCFAPINDQEGAEAK
DWRSGKPVVRNVKGGKNSKYAPAEGNRYDGIYKVVKYWPEKGKSGFLVWRYLLRRDDDEPGPWTKEGKDRIKK
LGLTMQYPEGYLEALANREREKENSKEEEEEQQEGGFASPRTGKWKWRKSAGGGPSRAGSPRRTSKKTKVEPYS
LTAQQSSLIREDKSNAKLWNEVLASLKDRPASGSPFQLFLSKVEETFQCICCELVFRPITTVQCQHNVCDCCLDR
SFRAQVFSCPACRYDLGRSYAMQVNQPLQTVLNQLFPGYGNGR

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FIGURE 1653

ATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCA
AGAAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATGTAAGAGCTTTAAATGCTACCAAAGT
GAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCAT
CCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAT
TGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATGTACTCGCTTTTGTGGGACTTCTTTTTTC
ACTGTTGGTGATGACAAACTGTGAAGCAGTGGAAAATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTA
CATACAATATTAGGAAAGACAGTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGA
CAGCAAGTAGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGACAGTATAAGT
AGTGTTAAATTTAACCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAATATAGTACTGTACGAT
ATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAACAAATACAATCTGTTGGAACCCATGGA
GCTTTTCATTTTACAGCAGCAATGAAGATTATACTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTA
ATGGTCCATATGGATCATGTATCTGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCT
AGTTTCGATAAATCTATTCGAATCTTTCCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAATG
CAACATGTTATCTGTGTAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATGAAATGAACATTTCG
CTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGAGAAAAAGCAGCCAAGGATTATAACCAG
AAATTGAAGGAGAAATTCAGCATTATCCTCATATAAAACGTATAGCTCGTCATCGACATCTACCAAATCTATC
TATAGCCAGATTCAGGAACAGCGCATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGC
AAGCCTGGATCTGTGCCACTTGTGTCAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAATAA

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FIGURE 1654

MKVKMLSRNPDNYVRETKLDLQRVPRNYDPALHPFEVPREYVRALNATKLERVFAKPFLASLDGHRDGVNCLAKH
PEKLATVLSGACDGEVRIWNLTQRNCIRTIQAHEGFVRGICTRFCGTSFFFTVGDDKTVKQWKMDGPGYGDEEEPL
HTILGKTVYTGIDHHWKEAVFATCGQQVDIWDEQRTNPICSMTWGFDSISSVKFNP IETFLLGSCASDRNIVLYD
MRQATPLKKVILDMRTNTICWNPMEAF IFTAANEDYNLYTFDMRALDTPVMVHMDHVS AVLDVDYSPTGKEFVSA
SFDKSIRIFPVDKSR SREVYHTKRMQHVICVKWTS DSKYIMCGSDEMNI RLWKANASEKLGVLTSREKAAKDYNQ
KLKEKFQHYPHIKRIARHRHLPKSIYSQIQEQRIMKEARRRKEVNRIKHSKPGSVPLVSEKKKHVVAVVK

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FIGURE 1655

GGCACGAGGGTGGCGTGGAGTGGCGTGGCGTGGCGGGGTCTCGCGGCGCGGGCGCGCACCCGGAGCTGTGGACGG
AGAGTGCCTCCCTCTGGCCTCAGTTTCCTCATGTTGTAGTAGCGGAGCATGGCCCGGACCGGGCCCCCGAGACCG
CCCCGTGCAACCTCACCGCCAGCCTGGGGGCTCAGCGACTGGGACGGGACCAAGGGGCTCGGGGATTCTCCCTG
CCCCCGGCCCTGGTGCCTGACTGACCCTCCTGTTCCAGAGCCCCCAGCGCAGGCCGGGATGTTTCGTCCTGGTGG
AAATGGTGGACACCGTCCGGATCCCCCCTTGGCAGTTTGAGAGGAAGCTCAACGACTCCATTGCCGAGGAGCTGA
AAGAAGTTGGCCAACAAGGTCGTGTACAACGTGGGACTCTGCATTTGTCTGTTTGATATCACCAAAGTGGAGG
CCCTATGTATTCCCTGGGGATGGCGCATCACACACCAAAGTCTCTCTAGGCTTCTTCGATGACATTCTCATCC
CAGAGTCACTGCAGCAGCCAGCCAAGTTCGACGAAGCGGAGCAGGTGTGGGTGTGGGAGTACGAGACGGAGG
AAGGAGCACACGACCTCTACATGGACACCGGCGAGGAGATCCGCTTCCGGGTGGTGGACGAGAGCTTTGTTGACA
CCCCCACAGGGCCCAGCTCAGCAGATGCCACCACTTCCAGTGAGGAGCTGCCAAAGAAGGAGGCTCCGTACA
GTTGTGGGATCCATCAGTGAGCCAGGCCTGGGCCTTCTCTCCTGGTGGACCAGCAACTAGCCCTGGGGCTGGA
GTGGACCCTACCAGCCTGCGGGAAGGTGGTATGGCCGGCTGTGAAGACAACAGCAGCTGAGGCCGATGCTAAG
AGATAGTGTCTCGAGCTGGACAGTGAGGCAAGGCCAGGAGTGCCACCACTTGCCCCGCTCCTCCACCATCTA
GGCCTGCTCCTCCTTCACTGCAGTGATGGATCCATCTGTGGCTGTGGCTGTTGGGCCTCCACTGACCTTGACTG
AAAAGACCCTTCTGGACCCTGGACTTGACAACAAACGGCACAGACACCAATCACTCACAGAACAGTCACTGGTT
TTGGATTCTTGTTCCTTGCAAGAACAAAAGGTTCTCTAGAATCCTTCAGCCACCAATGAAATGATCAGGCAGG
AGAAAACTTTAGATGGGAGTCTTGTTCATCAAAAATAAATACAGTTGCATGGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 1656

MFVLVEMVDITVRIPPWQFERKLNSIAEELNKKLANKVYINVGLCICLFDITKLEDAYVFPGDGASHTKVS LGFF
DDILIPPESLQQPAKFDEAEQVWVWEYETEEGAHDLYMDTGEEIRFRVVDES FVDTSP TGPSSADATTSSEELPK
KEAPYTLVGSI SEPGLGLLSWWTSN

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FIGURE 1657

GCGGCGCAGCGCGCGGCGCAGCGCGCGGCGTCAGTCTTGGCTGGCAGACCTGTACTCCGTACTCCGTACTTCGTA
GTCGCAGCGGCGCGGTCTTCGGCAGTCTAGTCATCCACCGCCATCCTGGGCCCCACGTGTTGCCTGACCATTCCCT
GAGCCCAGGTGGGAGCCGTGGCTGAGGTGACGGTCTCAAAGTGGAAGAGCTTACTGTACAGCAACTCCTTTGCA
AGATGCCCCGGCCAGGAATAGTTGCTGAACACCCCAGGCCTGCTGAGGTCCCTCCTTGAGTCTCATGTTCAAGCA
GTCTTTGTCCATGAAACTGGGAGGCGACCGTGTTAGCTGCCAGTTCCTGACAGCCACCTCTCACCAGTGGCTTCA
CTCTGTGTCCCTGACCCAGCACATGGCACAAGAGTGCCTGCCATCCGTCAGTGTTTCTACAGCAGCAATCCCTAG
ATGCTGGAGCTTAGAGGGGACCTGACCTGAGAGAAGATACCTTCAGTGGCTGCCAGGCTGTTCCCTTGGAACCTGTG
CAGGGATGAGGCCTGCCTGTGTTAATACACCTAGTGAGGAGTGGAGCTGAATTTGAATGCAAGCCTTGGCACCTT
AATTGAGCAAGTTTGAAACCTCGCTTGTTGCCCTTCTGGAAGGAGTCAGGAATTTCCAGTTCTGGGCCTGGGCTG
TGGGTCTGGCAGACAGACCTCTGGCCCTAGGTTTGGGTGCCAGGTTCTCTGCTTCCAGAATGAGAAGCTTTGCTG
TGCACCAGGACCTGGGCCCTTTTGGTATCTCCTGAATGACACACAAGGGATATTTAATAAATATGCATTTAAATA
TGTG

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FIGURE 1658

MKLG GDRVSCQFLTATSHQWLHSVSLTQHMAQECLPSVSVSTAAIPRCWS

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FIGURE 1659

CGCTGTAATTTTCACAATATTTTAATTCTGTTCTGAGATCTACAAATATCTCTACATAACACCAAAGCCAGTGAT
TTAATAAATAAGAGGAATGTATATATCGCTTTGCAAAAAAATGCCTGATACATTTATCTCTATATAAGATATTTG
TAGAATCAGTTTCCCAAGGCTCACGAACTAAAGTGCACACACACACACTTTCCAATACCAGTCGGCATTACCCG
CCCTTTGGTTTCTTTTGCTTTGGATTTTCAGCCCCATATCATTCTGTTAACAGAGCACAGCAATAGAATTTCTG
GGAAGCAGACCTTGTGAATCGTGCCTGTGTCTTAATTCACAAAGGGTAAGTGAATGCCGTTGAAAGGTGTTTCAT
ACACTTACCCCAAGAAATGAGAGCCTGTCTCATGCAGGAGTCGGGAGGCAGCGATGTCAGGGAACCTGGGACTATGT
CTTTATGACTGTGATGGTGGTAACCAAGTGGGGTGGTCCCCTCTGGGGAGCTGAGTAAGAACGCAAGGTTTGGG
TCAGTGATTAGGAAGACTATAATATGACTTTGTGCATGCCCGGGAGGGCTGCCTTGTAGAGAGGATGTGAGCAGC
TTAGTCGCTCATCTGGCCCTGTGATTTCAGGCTTATGGAGCGTTAAGAATAACAGCTGTCAAATGGCCTAGACATG
GTTAATGCAATTTGTTGCTAGTGGAAATCCTGAATTGCTTCCTTCTGTGATCACTGCTACTTCTTAAGATGCTT
TTGATGAATGTCATCTGCCTTACAAGTTGACACCTGATAACTTCTCCCTGATGGGTTTCCGAACCTGGCTGACTTA
ACCAAAAAGCCAGCTCTTGCCATCTATCTTGCAATAAAAGGAATTCCTGAGGCTCCTAAGGGGTGAGCTGCCCCA
CTCCTGACTTTTTTATTTTAAATGGTCTATACCTTCTGCAACATTTTGTGTTATGGCCATTTGAATAGTTGGACT
TTGACTCCTCACTTGTGAATAATAGGAATATATTTTGCAGAACTAACATAATACCCTTAAAATTCATACTGGAC
AACCATCAGTGTGATGTATAGTATCTGGTGTAAACAAATTTTATTTCAGCATATTAAATTATTCTGTGTTTTGCTT
TTCCTTGATATGTAGGAGGTGCACCAGTACCAGTTTTTCTCTTGTGGTGGCTTAAAACGCTGATTGCCATTTGCA
TTGTCTACTGAAAAGCTGTGGCAGCGAGTGGTATTATTGACCATGTGTTCTCATGTCTTTTTGTCAGATTTAAAGG
TTTTATTGTAGTGTCCATTTAATATCTGCATGTGTGTTTAACTCTGAATACCATGTAATTAACTGATTAACTT
GTGATGGTGTGATTAGCACACACTAAAAACCCAATGAAGCAATTGTCTCCCTCTTCTTAACTGGAAATCAC
ACTTGTGAGGTATGGTATCCATTATCAACAGTGGATTCATGATTGACTTCATATTTTGTGTATCTGGTTATAAAT
TTTGTATAGCATTAAATTTGGCACTTAATATAAATCCATTTGATTTGAATAGTGTGTGTGTGTACATGGTGTGTG
TGTGTGTGCACTTTAGTTTCGTGAGCCTTGGGAACTGATTCTACAAATATCTTATATAGAGATAAATGTATCAG
GCATTTTTTTGCAAAGCGATATATACATTCCCTCTTATTTATTAAATCACTGGCTTTGGTGTATGTAGAGATATT
TGTAGATCTCAGAACAGAATTAAATATTGTGAAAATTACAGCTTAATAAATGTTTATTGTAAATTTGTTGTATG
GACTTTTAAAATATATCTCATCACTTCTAACCAAA

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FIGURE 1660

MFIVILLYGLLKYSLLT

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FIGURE 1661

GC GCGCTGTCTGGCTCGGGAGATGGACGGCCGCGTGT TTTGGGCCGGTTCTGGAGTGGCTGGCGGCGGGGCCT
GGGTGTCCGCCAGTGCCCCGAGGACGCAGGCTTTGGCACCGAAGCCCGGCATCAGAGGCAACCCCGCGGCTCCTG
CCAACGGTCGGGGCCCCCTCGGGGACCAGCCCTTCGCGGGGCTGCTGCCAAAAAACCTCAGTCGGGAGGAGCTGGT
TGATGCGCTGCGGGCAGCCGTGGTGGACCGGAAAGGACCTCTAGTGACGTTGAACAAGCCACAGGGTCTACCACT
GACAGGAAAACCAGGAGAGCTGACGTTGTTCTCAGTGCTGCCAGAGCTGAGCCAGTCCCTAGGGCTCAGGGAGCA
TAGCTTCAGGTTGTCCGAGCATCTGGGAAAGAAAGCTCTGGGCTTGTACTCCTCTCCAGCTGTCCCCAGACAGC
ATCGCCTCCAGAAGTACTTCACCCATGCACGGAGAGCCCAAAGGCCACAGCCACCTACTGTGCTGTCACTGA
AGGATCCCAGCTGCTTCTGAGGGGAAGATCCAGGCTGCCCTGAAACTGGAACACATTGATGGGGTCAATCTCAC
AGTTCCAGTGAAGGCCCCATCCCGAAAGGACATCCTGGAAGGTGTCAAGAAGACTCTCAGTCACTTTTCGTGTGGT
CAGCAGGCTCTGGCTGTGCCCTGGTCCAGCTGCAGCCACTGACAGTGTCTCCAGTCAACTACAGGTGCACAT
GACTACAGCTCTGCCCTGTGCTTGGGGACCACATGTACTCTGCCCCTGTGGGCACTGTCTGGGCCAGCGATT
TGCTGCCAGCTGAGAACAACAAGCCCCAAAGACAGGTTCCTGGATGAAGCCCTCCTCAGACGCCTCCACCTGAC
CTCCCAGGCTGCCAGCTGCCCTTGACCTCCACCTACATCGGCTCCTTCTCCCAGGCACCAGGGCCAGGGA
ACCCCTGTTGAGCTCCTGGCACCCTGCCCCCTTATTTCTCCAGGACCCTACAGTGCCTGGGGCTCCGCTTACA
ATAGTCTCTCCCTCTGTTCTGACCCCTCACACACTGGAAAGTGAGGGTGGGGGCTCTGCAGTCAGACAAACC
TAAGATCACATCCTGGACAGGCCACTTGCTTGCTGTGTGGCATTGGGCAAGTAACTTTACCTCTCTGGACTTGTG
ATAATAAAAGTTCTACCTCAAAAAAAAAA

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FIGURE 1662

RAVLAREMDGRRVLGRFWSGWRRGLGVRPVPEDAGFGTEARHQRQPRGSCQRSGLGDQPFAGLLPKNLSREELV
DALRAAVVDRKGPLVTLNKPQGLPVTGKPGELTLFSVLPELSQSLGLREQELQVVRASGKESGLVLLSSCPQTA
SRLQKYFTHARRAQRPTATYCAVTDGIPAASEGKIQAALKLEHIDGVNLTVPVKAPSRKDILEGVKKTLSHFRVV
ATGSGCALVQLQPLTVFSSQLQVHMLQLCPVLGDHMY SARVGTVLGQRFLLPAENNKPRQVLDEALLRRLHLT
PSQAAQLPLHLHLHRLLLPGTRARDTPVELLAPLPYFSRTLQCLGLRLQ

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FIGURE 1663

GGCACGAGGGTGGTGAGGCCTACAGAAGCGGCCTTCAGCTGGACCTTGGTCTCCCCGCCGGACTTCGAGGGTGTC
ATCGCCGCCCTGTTGGGGGTGAGCGCCGCGCGGCTGCAGCATGCCTCACAGGAAGAAAAAGCCCTTTATAGAGA
AGAAGAAAGCTGTGTCTTTTCACTTGGTCCACCGGAGCCAACGAGATCCTTTAGCAGCAGATGAGAGTGCACCCC
AGAGGGTTCTATTGCCACACAAAAATAGACAATGAAGAAAGGCGAGCAGAACAGAGGAAGTATGGAGTGTTCT
TTGATGACGACTATGACTACCTGCAGCACCTGAAGGAACCATCTGGGCCTTCAGAGCTTATTCCTCAAGTACCT
TCAGTGACACAAACAGGAGAGAGGAGAAAGAAGAAACGCTAGTAATTCCAAGCACTGGAATTAAGTTGCCTTCAT
CAGTGTTTGCTTCAGAGTTTGAGGAAGATGTTGGATTGTTAAATAAAGCAGCTCCAGTTTCAGGACCTCGACTGG
ATTTTGATCCTGACATTGTTGCAGCTCTTGATGATGATTTTGACTTTGATGATCCAGATAATCTGCTTGAGGATG
ACTTTATTCTTCAGGCCAATAAGGCAACAGGAGAGGAAGAGGGAATGGATATACAGAAATCTGAGAATGAAGATG
ACAGCGAGTGGGAAGATGTGGATGATGAGAAGGGAGATAGCAATGATGACTATGACTCTGCAGGCCATTGTCAG
ATGAAGACTGTATGTCTGTGCCCGGAAAACTCACAGAGCTATAGCAGATCACTTGTTCTGGAGTGAGGAAACAA
AGAGTCGCTTCACGGAGTATTCGATGACTTCCTCAGTCATGAGGAGAAATGAACAGCTGACCCTACATGATGAGA
GGTTTGAGAAGTTTTATGAGCAATATGATGATGATGAAATTGGAGCTCTGGATAATGCAGAATTGGAAGGTTCTA
TTCAAGTGGACAGCAATCGCTTACAGGAAGTTTTGAATGACTACTATAAAGAGAAGGCAGAGAATTGTGTAAAT
TGAATACCCCTGAACCCCTTGAGGATCAAGACCTGCCAATGAATGAGCTTGATGAGTCTGAGGAGGAAGAAATGA
TTACTGTAGTCCTTGAAGAAGCCAAAGAGAAGTGGGATTGTGAATCTATTTGTAGTACATACTCAAATTTATATA
ACCATCCACAGCTTATCAAGTATCAACCAAAGCCCAAACAAATTCGAATATCTTCTAAACAGGAATACCTCTCA
ATGTCTTACCAAAGAAAGGACTCACAGCAAAGCAAACCTGAAAGAATACAGATGATTAATGGCAGTGATCTTCCTA
AAGTATCAACTCAGCCACGTTCTAAAAATGAAAGCAAAGAAGATAAAGAGCAAGAAAGCAAGCTATAAAGAAG
AGCGCAAGGAACGAAGAGTGGAGAAGAAAGCTAACAAATTAGCATTAACTGGAGAAAAGAAGGCAAGAAAAAG
AGCTGCTGAACCTGAAGAAGAATGTTGAGGGTCTAAAGCTATTAGACAGTGGAGCATACAGGGCAAGGCACTTTAT
TAGGGGCTCCTCATCTTTGGTTATTGACTAGAACTTCAGAAAGACAAACTGTTTGCCATTTTTACTGGCAGAT
AAGAGGAAAATACAATATTTGTATTATTTTATACTAGTAAGTGTCCCCTGCCAACCATCTTGTAATATTGTAA
TACTTTAATTTTTAATATTATAAGCTTACATTTGCTCTGAAGTAAATGACTTCATGAATGTGAAATGTTTGATAA
ATTAAAGGAAAATATCTTCATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1664

MPHRKKKPFIEKKKAVSFHLVHRSQRDPLAADESAPQRVLLPTQKIDNEERRAEQRKYGVFFDDDDYDYLQHLKEP
SGPSELIPSSSTFSAHNRREEKEETLVIPSTGIKLPSSVFASEFEEDVGLLNKAAPVSGPRLDFDPDIVAALDDDF
DFDDPDNLLEDDFILQANKATGEEEGMDIQKSENEDDSEWEDVDDEKGDSDNDYDSAGLLSDEDCMSVPGKTHRA
IADHLFWSEETKSRFTEYSMTSSVMRNEQLTLHDERFEKFYEQYDDDEIGALDNAELEGSIQVDSNRLQEV LND
YYKEKAENCVKLNTLEPLEDQDLPMNELDESEEEEMITVVLEEAKEKWDCE SICSTYSNLYNHPQLIKYQPKPKQ
IRISSKTGIPLNVLPKKGLTAKQTERIQMINGSDLPKVSTQPRSKNESKEDKRARKQAIKEERKERRVEKKANKL
AFKLEKRRQEKE LLNLKKNVEGLKL

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FIGURE 1665

TGCTGCTGACTATTGTTGGTGAAAATATTTTCACCAACTAAAGGAAATAGACATGAAAAACAATGACAATATTCAA
TCACAGCAGTAAGATGGCCTTTGTGTGCAATCCCTTCTACCCCATCAGACAGCTCCTATCTAACATTCTCTAT
ACAGTTCATTTCTCTACAAGCATTTTCTGATTCTTAGATAACTCCAATTTTGTACCTTTATCTTAGACATTAA
CACTATAGCCCAAAGCATAGTTACTTTGCTAAATCAGAAAGCAACTGAGTTCTTTGTTTTCTCCTCAAATAGAAT
GGGGAACGTACACAACATTCTCTTAAGTTCTAACAGGAATACCATTGTGGTGATAGAACTCAGGGCTGCTAAGGC
AAATACTCTAGACCCATAGTTCTTTTTAGTTAGATGTATTGAAACAGACAAAAATATTAACATCAGAAAAAGCTC
TTGCCAATTAGAGGATCTTCTTAATCTTCAGCAATTAAGTTTGGGGTTTGAGCGGGGCAGGTCATTGTTACAACA
GAAGTAAATTTGGCATCTATAGAAATCAATTATGATTTTTGAAAGATTTATCTAAATATATCTATATAGCATCTC
TTTAATGTTAGTCATTTATTAGAAAGATCCTTTATCCTGATTTGCTTAAACCTTTCAATAAATTGCACTTTAAAG
GATTATAAATAATCCATTTAAAAATTCAAGTACACACATCAGTGTGGTTACTATGCAGAGAATGTCATTGTGTA
TAGTTTCATGTAATCTGTTATGTCAGCTGTATTTTTTATTAAATCATGTCAAGAAAA

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FIGURE 1666

MQRMSLCIVSCNLLCQLYFLLKSCQE

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FIGURE 1667

CACAATAATTTAAACAGCTTTCTTATTTCTTAACTTCTCTGGGTATTTTGTGTGCTACTGTATCTTGTGAATGAA
TCTCAAGAGGAAGGATGAAGCTTTTCCAAAATCACATGCCTTCATCTCATTTTACAGAAAAATTTGTGCCTAATG
TTAACCAGGAAATGGGGAGCGGCAGGGCCAGTGGGTTTTTCATGGTGAAGTGAAGGTTGCATCTTGGACAGGTT
GCATGTGGAAGGGACAGCAGGGTTCCCAAGGAAGCTTTGCACGGTCATGGGTAGAGCCATCCCTTCTTCATCCAT
AGTGAATATGGCTGGAAATAGCGGGTAGTCTTGGATTGACCTCCCTCCCATGGAAGTGCTGTCTCCAGCTCGCT
TTGGAAAACTGCTTTCTCCCAAAGTGTGTCTGAGCAGCAGATTTAAGCATGAAGTTGGTTTTGTGGGGCTAC
TAAGGACTTTGGGAAGATGGTGCCATCTGTATTTCTGATTCTACCGTCCCTCTGTCTGTCTTTGGAAGTATCC
TCTCACTTGTTTGGGAGACTGAGAATGATTTTCTGCAAACAGTGAGCCAGACCATGCTGGTCTCAAGCGGCAGAG
CAGTTATTAACAGAATCACAGTCTTTCTGGAGCTGCTGTGCTCCTGTGCTGTCTCAGGGCCTTTGCTTGGTCA
TGGCCCCACTTCTTATCCACCCTTCCCTCTACCTCACCAGAGGCTGCTAGGCCCAGGTGTATTGTGATTATTTGA
TACCTGGGAGGCCATGTCTCCCGGGGAGGCTCAGGACCTCATTGGGCTGGAATTCCACAGGGATCTCTCATTG
TCTCTTTGGGCCTTTGGAGAGGGGAGTGCAGGGCACCACCTGGGCGAACACCTGTGCCATCCTGTAAGTCCTT
TGTGACTCTTCATCCAAGTCAACAGGGGCATGTAGGGGAAGAGCCTCAGGGCCCATCAGGAGTCAGACCCTGAC
CAGGAAGTCAGAACTGAATCAACTTTTCAATAAACACACAGGCTGGCCCCAAACAAAGCAGCAGGCTTTTGGGAA
CATCTGCCTTTTTCAGTCTCTTCTGAATTCTGTTTATGTGGACACCCCATGTCCCGCACCACCATTGCCGCCAGCA
AIGTTTGTGCTTGCCAATATTTGAATAGATGCTGATAAATTTGATTCTCTGGCTTATTGTGGCATTTCATGATAT
GTCTTTCCCTTTTTCAGTTTCCATGTACTAGAGCGACTGTCAGTGTGGTTGGCAGTGACCTGTGTTTTTCATGCAT
GTTTTTGTTCAGAATAACTGGGAGATGAAACAGGAAGCTCTATGACACACTTGATCGAATATGACAGACACCGA
AAATCACGACTCAGCCCCCTCCAGCACCTCTACCTGTTGCCCGCCGATCACAGCCGGAATGCAGCTGAAAGATT
CCTGGGGCCTGGTTCCAACCGCCCACTGTGGACTCTGAGGCCCTCTGCATTGTGCGGGTGGTCTGCCTGTGATATTT
TGGTCATGGGCTGGTCTGGTCGGTTTCCCATTGTCTGGCCAGTCTCTATGTGTCTTAATCCCTTGTCTTCATT
AAAAGCAAACTAAAGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1668

MTDTENHDSAPSSTSTCCPPITAGMQLKDSLGPGSNRPLWTLRPLHLRVVCL

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FIGURE 1669

GTGTTGCAATAAAAAGAATTCACTTACTCTGTTTGGGATTCTCGCCATCAAGGTTCAAAATCCCTTTATATAAC
TCCCAAGAGGAGAAATTTATTAAGTGTGTGCTTTCTGGACAGCTTATTCTTTACTCTGCATAGAACATTTAGGTT
TTAAAACTTAAATGTATACTGACAATTGATACATAATTATGAAGTAAAGTTGAATTCTTCCCTTCCCCTCCCC
CCAGACAACCTTTTAAACATATTTAATGAGGGGAAAAGGTACTGGCTGGGAGAAGTTAACTGAGTTTATCATCTT
TACAGAATGCTAATGCTGTCCTCAACTGATTATTTTATATACATATATATGATACATGAACTCTGGGATCAGAT
GCTTTTAGAAGCCATCATGCAAGCCAGTCATTGATGTCACTGCTACACAACACTGCTAACTTGACTGTAGCTATG
TAATAACATTAGATCCCCTAATTGTAATTATTTGGGTTTGACAGAACACTTTAATCTTCCCCTCACCAATGTG
AAGTGAGGAATCAGGAGTCAAACGTAGAACTAAAATTTGACTTCAGTCTAGCGTTTCCCTTGGTGTTTTTAGGTT
GCTTTGGTAAGTTTAGGTTTGCTATATTTCTGATTGCTTAGAATTTTGTTTTAGCCCTTTAAATCAGATCATAA
ATATGAATTCATACTTCTAAGGAATTTCTTGCTATAAGCTGGAGTTTAGGTGATGTATAGGTTTCAGTTGAGACA
TTTTTGGAACAGGCAAATCCTTAGTTAACATAAGATATTTAACAGTTGAAGATAGTGTATGGAATTTTTATCTTT
TTTAGCAAGTAATGCTAAGAACCCTGGCCTGAGCTACTACTCTTCAGTATACATTATTAGGATTGCATAGACTT
ACTAGAGGAACAGTTTCAGGTTTTGATGCTAATCAGTGTTGTGTCTTAAAGTTGTCTTTTGTGCCTTTAAAAAGT
TTTGATATATCTTCTAGTTTTAAATGCTTATTAAGGAATTCATTTTATAATTGCAGTGGGAAAGTAATGGTCA
AGTAACACTAGGTAGACTATCATGCCTGTTTAGCCAGAGAATTTGGGGGAGAGAGAATAGATAAAAATGGCAC
CCAGAAAAATGTTAAATCTTTAGTCAAGACTAGAATTAATACAATTGTCTACACTTGTATGGCAGAAATAACCT
TATAAGTGTTTAAAGGAATTCAGAGAAGGGAATGTACCAATAAGCAACAGGGAGAAAATTAGGTAAGAAGTAAG
ATACGAACGAGAAACCTGATTTATTGCTCATCTTCCCTTGCCCTCCCTAATGGCAAGCAAACTCTGAACATCTG
AAAAGGATGTAGTTCTGGACAAATCCTGACTACCCAGAGGAACTCACTGTGAGATTGCTGTTGATTGTAAGGGT
GCTTTCACTAAGGTTATATTTTAAAGTAGAATAACACATGCTGAGTGTAAGTGGCTTTGGATTGGTCAGCTGCA
GTAGTACAAAAACAGCATAGAATTTGAGAAAACATAAACTGCTATGAGATAGCTATGAGAAAACATAAACTGCTA
TGAGATAGAAATGATGTAAAATTATGTGGAAAGTTTTCCCTCATATACTCACATACAGCCTTTGAAGGGCTCTGG
CTCTGACCGGTTGATGGCCTTGAGCGAGATGAAATCATGAAATTGAGTCAAATCAATTTGACATTGAAATGACAA
GAGGAACTCTTAAATACATAAAAACAAGCTCTCATTTGCCTAGGATAGATACTGTCTTAAAAATAAAGACTGAA
CCTAGATGTTCTGAGCACTAGCAACAAGGTATTTTAAACAAGTTTAAAGGAATTCTCTGAAAAAGTTATAAAATTA
TTCTAGGAAACATAACCATAATAGTGTTTTAAGGGACTTTACCTGGGGATTTTATATTCATGAACAGAGTGAT
TCTGTATTTAAAAATGTCTCATTGTGGGAATTGGATGACATGTTTTTTGATAAATTTATTCACAATATAAATTGA
CTTTTTATTCTAGGACCATGTGAATAATGGGTTCCATTGCACAAATACAAATATTTTAATAGCTTCTTAGGCAGT
GGTGTAGACATCTTGATATAAATAATTGTAGATCTTGATATTTTGATTTTTAAAAAACTAGAATAAACAGAGAG
GCATAAACATATCTTAGAGTCCAAGTGGTAGTGTGTTAGCATTGGATATAATAAATGGATGTTTTACAAAGTGTTT
CCATAATTCTCTTCCCTATACATAAATGTCTTGTTTTCAAAGTGGATGG

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FIGURE 1670

VVAIKRIHLLCLGFSPSRFKIPLYNSQEEKFIKCVLSGQLILYSA

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FIGURE 1671

TGGATTTTAAAAGTATTGAAGAACAACAAAACCTCTGACAGATTCCCAAAGGGTAAAGTTTACCAAAGAAATTA
AAGGTCTAAAGGTGGAGATAACGCACTGTGGGCAGATGAAGAGGAAGTACCGTGTCTGCAATGTGACCCGGCGGC
CCGCCAGTCACCAAACATTCCCGCTGCAGCAGGAGAGCGGGCAGACGGTGGAGTGCACGGTGGCCAGTATTTCA
AGGACAGGCACAAGTTGGTTCTGCGCTACCCCCACCTCCCATGTTTACAAGTCGGACAGGAGCAGAAACACACCT
ACCTTCCCCTGGAGGTCTGTAACATTGTGGCAGGACAAAGATGTATTAAAAATTAACGGACAATCAGACCTCAA
CCATGATCAGAGCAACTGCTAGGTGCGCGCCCGATCGGCAAGAAGAGATTAGCAAATTGATGCGAAGTGCAAGTT
TCAACACAGATCCATACGTCCGTGAATTTGGAATCATGGTCAAAGATGAGATGACAGACGTGACTGGGCGGGTGC
TGCAGCCGCCCTCCATCCTCTACGGGGGCAGGAATAAAGCTATTGCGACCCCTGTCCAGGGCGTCTGGGACATGC
GGAACAAGCAGTTCCACACGGGCATCGAGATCAAGGTGTGGGCCATTGCGTGCTTCGCCCCCAGCGCCAGTGCA
CGGAAGTCCATCTGAAGTCCTTACAGAGCAGCTCAGAAAGATCTCGAGAGACGCTGGCATGCCCATCCAGGGCC
AGCCGTGCTTCTGCAATACGCGCAGGGGGCGGACAGCGTGGAGCCCATGTTCCGGCACCTGAAGAACACGTATG
CGGGCCTGCAGCTGGTGGTGGTTCATCTGCCCGGCAAGACGCCCCGTGTACGCCGAGGTCAAGCGCGTGGGAGACA
CGGTGCTGGGGATGGCCACGCAGTGCCTGCAGATGAAGAACGTGCAGAGGACCACGCCACAGACCCTGTCCAACC
TCTGCCTGAAGATCAACGTCAAGCTGGGAGGCGTGAACAACATCCTGCTGCCCCAGGGCAGGCCGCCGGTGTTC
AGCAGCCCGTCACTCTTCTGGGAGCAGACGTCACTCACCCCCCGCCGGGGATGGGAAGAAGCCCTCCATTGCCG
CCGTGGTGGGCAGCATGGACGCCCCACCCCAATCGCTACTGCGCCACCGTGCAGCTGCAGCAGCACCGGCAGGAGA
TCATACAAGACCTGGCCGCCATGGTCCGCGAGCTCCTCATCCAGTTCTACAAGTCCACGCGCTTCAAGCCACCC
GCATCATCTTCTACCGCGACGGTGTCTCTGAAGGCCAGTTCCAGCAGGTTCTCCACCACGAGTTGCTGGCCATCC
GTGAGGCCTGTATCAAGCTAGAAAAAGACTACCAGCCCGGATCACCTTCATCGTGGTGCAGAAGAGGCACCACA
CCCGGCTCTTCTGCACTGACAAGAACGAGCGGGTTGGGAAAAGTGGAAACATTCCAGCAGGCACGACTGTGGACA
CGAAAATCACCCACCCACCGAGTTCGACTTCTACCTGTGTAGTCACGCTGGCATCCAGGGGACAAGCAGGCCTT
CGCACTATCACGTCTCTGGGACGACAATCGTTTCTCTCTGATGAGCTGCAGATCCTAACCTACCAGCTGTGTC
ACACCTACGTGCGCTGCACACGCTCCGTGTCCATCCCAGCGCCAGCATACTACGCTCACCTGGTGGCCTTCCGGG
CCAGGTACCACCTGGTGGATAAGGAACATGACAGTGTGAAGGAAGCCATACCTCTGGGCAGAGTAACGGGCGAG
ACCACCAAGCACTGGCCAAGGCGGTCCAGGTTACCAAGACACTCTGCGCACCATGTACTTTGCTTGACATGTTT
TAGTGTTTAGCGATTGTGTACCGAGTGGGATTACAGAGACCAGCTACACTCAGACCAACAGATGGCCAGCCCTTC
CGTGACAGCCAGCATCGAACATGAGACGTCATTGATTTTATTAGATTCTCCGTTTTCCAGAATGCCTTCCGTCCC
AGATTTCAAACCTTGGATTTTGAAGTGCAGACCTGTATGAGAACCCAATGTCATAGGAAATATGGTTTGCTAAAT
CTATAAGCTGCTTATTTAAACAGAGTCCCGTGTGTCTTAAAAATCTCCTAAAACAGTCTATGAACTCAGGGCTT
TAAACATTTTTAATTTATTTGGTCATTCAATTTACTTGTTTTTAATACATGATTCTCTATGAAATTGATGGGCT
CAAACCTAGCTGTGAATCTTCTGAGAGTGAAAGCAACACAAAACACAAGTGTGGTTTTAAAGCCTTGAACATTCTG
ATGTTGTCACTAAAGTTGATTTCCAGGCGATGCTCGTGTGCCCCCTGGCGTGGCTCACCCAAGTTCTCGACTGAG
GGCCGGTGGCCATGCAGAGGCGTCCGCAGGTGCCGTGTTCTGCCAGCACCGCCCTTACCCGGCCTGAACTAAGG
AGCAGTGGCAGAAGGTGGGCCCCGTGTGTTTACAGCATTTCAGGTCCAGAGAGGTTGGCAGACAAGTGCCATTT
TAATAAAAAATGTATTTAAAAAAGAAAAAGACAATATACTGACAGTCTAATCATCAGATTTGTCCTATAGGAC
TGTGACATTTATTTTCCAAAGTTTTTAAAGAATACGGGTCTGTGGTGATAAATACAGTACAATCCTTTTTTCACTG
TTATGTCTTTAATGTAAGAGAAGAAATATATATATCTGGTTTGCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1672

MRKRYRVCNVTRRPASHQTFPLQOESGQTVECTVAQYFKDRHKLVLRYPHLPCLQVGQEQKHTYLPLEVCNIVAG
QRCIKKLTNDQTSTMIRATARSAPDRQEEISKLMRSASFNTDPYVREFGIMVKDEMTDVTGRVLQPPSILYGGRN
KAIAIPVQGVWDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSFTQLRKISR DAGMPIQGQPCFCKYAQGAD
SVEPMFRHLKNTYAGLQLVVILPGKTPVYAEVKRVGDTV LGMATQCVQMKNVQRTTPQTLSNLCLKINVKLGGV
NNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVRVQQHRQEIIQDLAAMVREL
LIQFYKSTRFKPTRIIFYRDGVSEGQFQOVLHHELLAIREACIKLEKDYQPGITFIVVQKRHHTRLFCTDKNERV
GKSGNIPAGTTVDTKITHPTFEFDYLC SHAGIQGTSRPSHYHVLWDDNRFSSDELQILTYQLCHTYVRCTRSVSI
PAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA

[illegible]

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FIGURE 1674

MILGRCDLFFIFSKCISFQIKLSIETTEKKKKS

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FIGURE 1675

GCACGAGGGCTACGGCCCTGGAACGGGGCCATGGAGAAGCTGCGGCGAGTCCTGAGCGGCCAGGACGACGAGGAG
CAGGGCCTGACTGCGCAGGTCCTGGATGCCTCATCCCTTAGTTTCAACACCAGATTGAAATGGTTTGCCATCTGC
TTCGTATGTGGCGTTTTCTTTCTATTCTTGGAAGTGGATTGCTGTGGCTTCCGGGCGGCATAAAGCTTTTTGCA
GTGTTTTATACCCTCGGCAATCTTGCTGCGTTAGCCAGTACATGCTTTTAAATGGGACCTGTGAAGCAACTGAAG
AAAATGTTTGAAGCAACAAGATTGCTTGCAACAATTGTTATGCTTTTGTGTTTCATATTTACCCTGTGTGCTGCT
CTTTGGTGGCATAAGAAGGGACTGGCTGTGTTATTCTGCATATTGCAGTTCTTGTCAATGACCTGGTATAGCCTG
TCATACATCCCATATGCAAGGGATGCAGTTATTAAATGCTGTTCTTCTCTCCTAAGTTGAAAATCAGAACTTGT
GGAAAAGAGCACTTGAATGTTGGTACTCTATGTTTGGTGAAGTTTGCTTTTCCCCATAAAACACTCCAGGAACAA
CTGACGTGACAGTTGAAGACCGTTTTGTACTAAGTCTCATTTTGTATACTGGTAAAACTACATGCTTGATTAA
CCATTAAATGCTTGTAACTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1676

MEKLRRVLSGQDDEEQGLTAQVLDASSLSFNTRLKWF AICFVCGVFFSILGTGLLWLPGGIKLFAVFYTLGNLAA
LASTCFLMGVPVKQLKKMFEATRLLATIVMLLCFIFTLCAALWWHKKGLAVLFCILQFLSMTWYSLSYIPYARDAV
IKCCSSLLS

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FIGURE 1677

TTCCGGCCTTGTAATCGCCGAGGGCACGTGCATGCCCCCTGGTTAAGAGTTGCAGGTAGCGGTAGCGATGGACAC
TCTGGATCGAGTAGTAAAGCCCCAAAACGAAAAGAGCCAAGAGATTTCCTTGAGAAGAGAGAACCGAAACTCAATGA
AAATATTAAAAATGCCATGCTGATTAAAGGGGGAAATGCAAAATGCAACAGTGACAAAAGTACTTAAAGATGTGTA
TGCACTGAAAAAACCATACGGTGTACTATATAAAAAAGAAAAATATTACAAGACCTTTTGAGGATCAGACATCACT
GGAATTCTTTTCAAAGAAGTCAGATTGTTCTTTATTTCATGTTTGGCTCCCATAATAAGAAGCGGCCAAATAATCT
AGTAATAGGTCGTATGTATGACTACCATGTGCTGGATATGATTGAATTAGGTATTGAGAATTTTGTCTCTCTAAA
AGACATTAAGAACAGTAAATGTCCTGAGGGAACAAAACCCATGCTGATATTGCTGGCGATGATTTTCGATGTAAC
AGAAGATTATAGAAGACTAAAAAGTCTTCTTATTGATTTCTTCAGAGGCCCCACAGTATCAAATATCCGCCTGGC
TGGATTAGAGTATGTTCTGCACTTCACTGCACTGAATGGGAAGATTTACTTTCGAAGCTATAAGTTGCTGTTGAA
GAAATCTGGTTGCAGAACACCACGGATTGAATTGGAAGAGATGGGACCCCTCATTGGATCTGGTTCTGAGGAGGAC
ACACCTGGCATCGGATGACCTTTATAAATTATCTATGAAAATGCCAAAAGCTCTCAAGCCAAAAAAAAAAAAAA
A

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FIGURE 1678

MDTLDRVVKPKTKRAKRFLEKREPKNENIKNAMLIKGGNANATVTKVLKDVYALKKPYGVLYKKKNITRPFEDQ
TSLEFFSKKSDCSLFMFGSHNKKRPNNLVIGRMYDYHVLDMIELGIENFVSLKDIKNSKCPEGTKPMLIFAGDDF
DVTEDYRRLKSLLIDFFRGPTVSNIRLAGLEYVLHFTALNGKIYFRSYKLLKKSGCRTPRIELEEMGPSLDLVL
RRTHLASDDLYKLSMKMPKALKPKKKKK

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FIGURE 1679A

TGAGTTTCAGTTTATGTACTTAAATATGACTGTCAATTTTCCAATCATTTTTTTTTTTCTAAAACAACTACAAAAT
TTGTTTCAGCCCAATGTGACACCCCTTGGCCTTCACATAGTGCAAATGAATTATGTATGTGTTGTTTACCTCCATT
TTCTTCCTATTGTCCCTTCCCATCTATGAGTAGCATAGTGATTTCGTTGACCGTGTGAGCTTGCTTATGTCAAAA
GAATCTTAATTATACATAAATTGTAAAATGTGTTAGTCCATGAAAATATTTCTCAGTTGGTTATCACTGCAACAG
AAACATTCTCTACAACCTGAAACAGAATTTGATGTGAGTACAGTATCAGATGATAGTTGTGTTTATGACATTAGCT
TAAGTCATGATATCCCTTGACACCAAGATTATCACAGGTGGGGATAGCCATTGAATACATTAGAGGGGAGC
TACATCATCCCCAAAATGCTTATTATTTGTAGAGTTTATCAGAATAAAAATAGCAAACCTCTAGAAATAGTGTT
GGGAATAGTCCTTGAGTGGGTTTGGGAAGTGTAGTTTGAGGTAATTATGATATATCCAGCCCAGCAGACGCTCAT
TAACTATGCAGGTGCTGTGTTCTGTGCTAGGTACTAAGACTATAAAGATGAATTAGACACAGCTTTGCCCTAAA
AAGTTGCCAGGTAAGGGTTAGGGGTTAATGTAGTGTAGAGCGGTCAAGTATGAGCAAATGTATGGGGGTGGGGCG
GCAACTGTACAGATGAACAATCTGGAATATTAAATCAACTCACAGAGTGGCAACAAACAATACTGGAGAGCT
CATGAATCCTGGAAAGCCTTGTATGGCCCTGCAAGGGAAGCCATGTTCTGAAAGCTCCTATGAGGGGGACTG
GTGACTCTAGATAAGTAGATTGAAAGAATTAGAGGTAAAGTCAGTGCAGCAGCACTAATCACAATTAAAAATAAA
AGCTTTAATTTTTAAAAAGCGGAAAAACATGAAAGGACACTTCGCAAGCTTCTCAAAACTTCCTGTGATTTGGAG
GGCTATTTTGTAGCAGAGTCTAGACGAAAACCTGGATCTGACTGGCTCCAGAGTAAAGATCTGAGAAATGGAACCCA
GCAATTTAGATATTACAAGAGCCTGTTATACTTGTCAATTTTTTATTTGGTATTTGTTAAATATTACAAAAATGGT
TATGCTTTTTAATTCAAAATTTGACGTTTCAGCATGATGATACATTCTTGCCTTTTTCCCCCTTCCATATAGCA
TTTTCCACCCCAGCAAGTCAACTCTTTTCTCCTCATGGTTCTAATCCTTCAACACCTGCTGCAACTCCTGTTCCCT
ACTGCATCCCCAGTCAAGGCAATTAATCATCCATCAGCATCAGCAGCTGCCACCGTTTTCTGGAATGAACCTGCTG
AATACTGTCCTTCCTGTGTTCCAGGGCAGGTCTCCTCAGCCGTTACACACCTCAGCCATCAATACCAAACCCA
ACAGTTATCAGAACCCCTTCATTGCCCCTGACCTGTTACATCCATCCACAGTACAACCACCACTCCTGTTCCCT
TCCATTTTTTCTGGCCTAGTGTCACTGCCAGGTCCCTTCTGCCACTCCTACCGCAGCCACTCCTACCCCAGGACCT
ACACCACGGTCCACTCTTGTTCCAGTGAAGCATTGCTTCTACTTCTGCACCTTTCACTAGCCTCCCCCTTTTCC
ACCAGCTCTTCTGCTGCTTCTACCAGCAACCCAAATCTGCTTCATTGTGATCAGTTTTTGCAGGGCTCCCTTTG
CCCTTACCACCAACATCCCAAGGCCTATCCAACCCGACTCCTGTAATTGCTGGTGGCTCTACTCCCAGCGTTGCC
GGTCCACTTGGTGTGAACAGTCCATCTTTTGTCTGCGTTAAAAGGTTTTCTGACATCCAATGACACCAATTTAAT
CAACTCCTCTGCTTTATCCTCTGCTGTGCACAAGTGGGCTGGCTTCACTATCTTCTTACTCTTCAGAAGTCTGA
CTCTTCTGCTTCAGCCCCCTAACAAGTGTATGCCCCATCAGCCATCCCTACCCACAGAGGACTTCCACTCCAGG
GTTGGCCCTGTTCCAGGCCTGCCGTCTCCCGTGGCTAACTCAACTTCCACTCCCTGACATTGCCTGTACAGTC
TCCTTTAGCCACTGCTGCATCAGCTTCCACGTCAAGTCCAGTTAGCTGTGGCTCCTCAGCCTCCCTTTTGCGTGG
CCCCACCCAGGTACCTCAGATCTGCATATTTCACTTACCCCTGCTGCAACAACCTTCTCCTGTTATGATCAAAAC
TGAGCCCACAAGTCTACTCCCTCGGCCTTCAAAGGTCCATCTCATTCTGGGAATCCCTCTCATGGCACTTTAGG
TTTGTGAGGGACATTGGGCCGTGCATATACTTCAACATCCGTGCCCATCAGTTTATCTGCTTGCCCTTAATCCTGC
ATTGTGAGGTCTCTCCAGCTTGAGTACTCCTTTAAATGGTTCAAATCCTCTTTTCTCTATTTCCCTTCCACCACA
TGGTTCCTCCACTCCCATTTGACACAGTATTCAGTGTCTTCTCTTTTACTTCTTTGACCAACAATTTTCTTTT
AACTGGCAACCCATCTCTTAATCCGTGAGTATCTCTCCAGGGTCATTAATAGCCACCTCATCTACCGCTGCCAC
CTCCACATCTCTCCCTCATCTAGCTCAACGGCAGCTGTTCTCTCAGGGCTTTCTGCTTCAGCACCAGTCTCAGC
AGCACCTTTCCCCCTCAACCTGTCCACTGCTGTTCCCTCACTTTTCTCTGTTACTCAAGGACCTCTGTCACTTC
AAATCCCTCCTATCCAGGCTTTTCTGTCTCTAATACCCCAAGCGTTACCCCTGCTCTTCCCTCATTCCCGGGGCT
GCAGGCGCCCTCTACAGTGCAGCTGTACACCACTACCTGTGGCTGCCACAGCCCCATCCCCAGCTCCAGTCCCT
CCCAGGATTGCGCTCAGCATTGAGTTCCAATTTCAACTCCGCTCTTGTGTCACAAGCCGGTTTATCATCTGGACT
TCAAGCTGCAGGAGTTCTGTTTTTCCAGGCCCTTTGTCCCTCCCGGTATCCCTGGGTTTCTCAGAAATCCTTC
ACAATCATCCTTGCAAGAATTACAGCATAATGCGGCTGCGCAGTCAGCATTGTTACAGCAGGTCCATTGAGCTTC
GGCTCTGGAAAGCTATCCAGCTCAGCCTGATGGGTTTCTAGTTATCCTTCAGCGCCAGGAACACCATTTTCTTT
GCAACCAAGCCTGTCCAGAGTGGGTGGCAGTGAATACTTTTAACTTTTTCTCTTCAGAGCAACATCAGAAT
TGCCTGAGAAGTGAATGAACAATCTGACAAATGTGAAGCTGGCCAAAAGTCGGAAATGAGAATGAGGGTAATC
CTGGAGAAATTGTGACAACAATTTGAAAATGTGGTTGCATTTTAAAGTGTGAACACTCCCTATGTAAATATGC
TGACAATAAATTGTATGGAGAATGGTATTTAAAAAGTGGTTGGAGACTTTTCACCTGTCCTATAAAATTTGAAT

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FIGURE 1679B

TGTGTATGTGATCTACATAGAAAGAATATTAAAGAGTAGGTTGAACTCTTTATAGCCGAATACAGCCTTAAATAT
GCTTGTATAGCATCCACTGGCAGAAGTAATAGTTGTGCCTCAGACTTGGGGGTTGCATGTGGCCCTGGGGGAGTT
ACTACCCCTTGGTATGCATGAGCGGTTCCCTATTAGCATCAGTGGGAACTCAGTACTCTGTATGTATCCACAAAAGG
GAACTTGAGACCCACAGTTATTCTTAATTTCTGATATTAACAACCGTACATACTGCTGAATTTAACTCAAAATAT
TTCAGGTAAGTGAAAGTGGTGCTTAATGTAGACTATAGAATGACTTTTCAAGGTGTTTTCAACTGAAAGTATATATC
CAGAACTGCATCCTTATAGAAATACAAGTAAGACTTAGGATAATTTGCCTTCAAAACAGTTTTCTTAATCTCAGC
AGTATCCAGTGAGTGAAGAACACTTGACTGACTCTTGGGCCACCTCTGTTACTTACTGTACTATGGAAGCTCCTG
GTGAATGTTTACAATTATGGGATGTAGTATTTCTATTTGTACTTTAAGTCAAATGCTTATATGAAATATGTGACA
ACAAATAGAGAAGACTGGCTCTGTTAGTAATTATGCAGTATGTACTCTATTTAAGGATCTGTGGTAGTATAACAT
GAGTGAATGTCATTAATTTTGAAGTAATAACTGCCACATGTGGGAAGTAGGGGAGTAAGGAGAATGAATTCCAAT
CTGTGATTAAAAGTGTAACCTATAGACTCTACTGTAGTACATTTTCAAGGATCTAGAAGTTTTACTTTTTATAAAGAT
GGTGTCCGGAAGATGTTGCTAATGTATTTTACTTTCAACATAGGGAACAACTTTTTAAGTATATTAATAAACCTG
TATGGTTAGTTTTTAACAGTTTTTTAAAATAAACTATGGATATGACAAATATTCTGTGTTTTACTAAGTGCTTGG
ATAGGCTTTCTAATTTTGTATACGTGCTAGAGTTAATTATTGAACATTTTATCCAAATTTAGTTGTAACCTCTGT
TTATACTACTGATTGCTCATTTCGTTTAAATGATATTTTAAATGTAAAAGTCATAACCAACATATGAACAGACAGAT
TTATGTCTTTAAACACAGAATGTAAGCTATAGTTTAAATCTGATACCAGTTGCTGGAAGTTGCCATTTGTTTTTCT
TAAATCTATACCCATAAACTTCTTTTAAAGATTAAAAA

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FIGURE 1680

MIHSCLFSPFHIAFSTPASQLFSPHGSNPSTPAATPVPTASPVKAINHPSASAAATVSGMNLNTVLPVFPQVS
SAVHTPQPSIPNPTVIRTPSLPTAPVTSIHSTTTTPVPSIFSGLVSLPGPSATPTAATPTPGPTPRSTLGSSEAF
ASTSAPFTSLPFFSTSSSAASTSNPNSASLSSVFAGLPLPLPPTSQGLSNPTPVIAGGSTPSVAGPLGVNSPSFVC
VKRFSIDIQDTNLINSSALSSAVTSGLASLSSLTLQNSDSSASAPNKCYAPSAIPTPQRTSTPGLALFPGLPSPVA
NSTSTPLTLFPVQSPLATAASASTSVPVSCGSSASLLRGPHPGTSDLHISSTPAATTLFVMIKTEPTSPTPSAFKG
PSHSGNPSHGTLGLSGTLGRAYTSTSVPISLSACLNPALSGLSSLSTPLNGSNPLSSISLPPHGSSTPIAPVFTA
LPSTSLTNNFPLTGNPSLNPSVSLPGSLIATSSTAATSTSLPHPSSTA AVL SGLSASAPVSAAPFPLNLSTAVP
SLFSVTQGFLSSSNPSYPGFSVSNTPSVTPALPSFPGLQAPSTVAAVTPLPVAATAPSPAPVLPGFASAFSSNFN
SALVAQAGLSSGLQAAGSSVFPGLLSLPGIPGFQNP SQSSLQELQHNAAAQSALLQQVHSASALESYPAPDGF
PSYPSAPGTPFSLQPSLSQSGWQ

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FIGURE 1681

AACCTACCTCAGTTTCAGAGAATGAAGGCATTTCAACCATACCAAGCCCTGTGACCTCACCAGTTTTGTCCCGCC
GACACTATGGAGAATCTATAACAAATATAGGCCAAAGCAAGCATATTAGGGGCTGCTAGCATTGGAAAGGGACTTG
GAGGAATGTTGTTCTCAAGATTTGGACGTTTCATCTACAACACAGTCATCTGAAACATCAAAAGACTCAATGGAAG
ATGAGAAGAAGCCAGTTGCCTCACCTTCTGCTACCACCGTAGGGACACAGACCCTTCCACATAGCAGTTCTGGCT
TCCTCGATTCTGCATATTTAGACTTCAAGAATCGTTCCTTAATCTCCACAACCTTCTTTTTCCGGAAAATGTAA
TGCAGAATAAAGATAATGCCCTCGTGGAGTTGGATCACAGGATTGATTTTGAAGTCAGAGAAGGCCTTGTGGAGA
GCCGCTATTGGTCAGCTGTCACGTCGCATACTGCCTATTGGTCATCCTTGGATGTTGCCCTTTTTCTTTTAACCT
TCACTGTATAAACATGAGCACGATGATGATGCAAAACCCAATTTAGATCCAATCTGAAGTCCTTGAAGGACATGAAT
GGCCTAAAACCTGATTTTTTTTTTTTTCCGTTAAAATGTGTGTGTCAAGATACGGAGATTTAGGGTTAAAGTATAT
TTCAGTTTTCTTTAGGGCAACATATATTTGAATTTAAAAGCACTTTATTTAAAAAAAAGAAGTTTTCAGTTCT
GAAGAAGTCATTTACAGTTTGCATCATTTTAATTATGAGTCTGACAAAACCTTCTCCAGAGAATCAAGCAAGACC
TGGATGTGAAGAAGGTTTGGGTAACTGCATGTAAAGGCTACAAATCACAATCTGATTCCCTCCCAAATATAAAGG
CATATGGAACATAATGTATTAACCAAAGTATGTTATAAATCAAAAATGGTCAAGGTTTCAGCATATTCTATATGAA
GATCACAAGGTGGTATCGTTTTAGATTTCTATGAAGGCTTTCATTTGTACATCCCTTTGAAAAAATATAACAGAT
TTAAAATGTTTTGAATTTAACTTGTTTAGAAAACTAATGCTTAAAACAATATTTGAAGTACTGTATTTATAATT
TATTACCTCTAATTGCTTTATTTTCAGTGTATGAGACATTACTGTTTTAATGTTTGCTTTGAACATAATTTAAGAA
CCAGATTTATTTTCTATAGTGATAAACCTTTTTTCTCAGAACTCCATCTTTGTACTCTTCAGATGAATATATAG
ACACTGTGGCATACATTTTTTTTTTCATTAAAACTTATGGCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1682A

CTGGCTTCAAAGCTCAGCGACCACACTGCTAATTAAGAATGCTTATGAAGAATGTTTAATGATATGAGGAAGACT
TACAAACTGTTTTTACAAAGTTATCAATGTGTGGATTTTTATTTACATGAAAGAAAAATAGTCACAAATGTTACC
TTTCAATGGTAGTATAATAGAATATTAAAATTTACTTTTTATTTTCAATCTAAATTTTCTACATTCTGCATGTATTC
TCTTTATAATCATTTTGTAAACTCAGAATACTGTTGTAAAGATGTCAGCTCCTTCCCGAGGAAATACCACTAGTT
AGACTTAATACACACATTTTTTTATGTTGAATTGAAATTTTACTTGGTAATGAATCATTCCCTTTAATCTACTCT
TCTAGATTACTGATCTCTCATTACCCAATCTCTGATGGCATCTTCGGTTGGACTGCTTCCCTACCCAGCTTCTGA
ATTCTTACTTGGGTACCACCCTGCGGACAATGGAAGATGTCATTGCAGAACAGAGTGTTAGTGGATATTTTGTTT
TTTGTTTACAGATTATTATAAGTATAGGCCTCATGTTTTATGTAGTTCATCGAGCTCAAGTGGAAATTGAATGCAG
CTATTGTAGCTTGTGAAATGGAACGAAATCTTCTCTGGTTAAAGGCAATCAACCAAATACCACTGGCTCTTCAT
TCTACAACAAGAGGACCCTAACATTTTCTGGAGGTGGAATCAATGTTGTATGATTCTAATGAGATACGTGATTGT
CAAGAGCCTAGTGTCTATCTAAGGTCTAGCAGTCACTTCACTAGTGGGCAGAGACAAGTTCTAATTGTATTACA
GCACAAACAAAAGTACTAGTTTTTAAATTGCACCATTGTTTTTTTTTAAAGCAAGAATCATTCTGCGGTAT
GTAAGTGTAATGTAGATGCAAATTTGGCTGCACCTCTTTATCATGCCTGTATTGGCCTATAGGTCTGCACCTTA
GTGTTTTTAAATTGTTTTATTTCTGTGATTTACGAACAGAGAAATAACCCAAATATTATTCTGCTTAGTGTCT
TTATTTATAAAGCCCATGAGTAGTTTGTATGCATCTTTCCTACTTGTAAAGATGAGTAAAGTATGCAGTTTTAA
ATTTATAATATTATTGGATGTTCTTTGCTTTGGTAGTCTTTCCAGAAAGGATAAACAGTGGTTTTTGTTTTGTTT
TGTTTTATTGTTTAAAGTGGGACCCTTAGCTTCCCGTTTTCTTACTAGTTAAAGAACAGACATTAATTTTCAGTT
GAATGTATTTTGCAGGCATCATATTGTTACAGGGCCATTTACACCTATTCACAAAGCTTAAATCCTACCTTGTTG
GGACTGAAGTGCTCTTAATATAACTGTTTATTTTCACTGTGTAATATGCAAAGCAAAAGGGAAATTATTGGTGG
ATGGTAGCTCAAAATTGGAACCTCTTGTCTAATTCAGTTACATTGGCTTTACCTCCTTAGATTTTTCATCAAAG
GGCTGTCCCATTGCAATCTTACTAAAACATTTTGTTAAATAAACTCTTTTCTTTTATATTAATAATTAGGCT
TTTAAATAAAGATGTTATTCCTTTAAATGGTGGGCTTACCATCATTGAAGATGTCACCTCAGGTGGCCTTGTTTG
ATCAAACGCCTTTTTTAAAAACCAAGCTTTAAAAACATGTTTATAATTTTATGAAGTACATATATTGTTCCC
ATAGTCTTCAGCTTTAAACTATAAATATGCCCAAATTTGTTATTTGCCCTACTTTAAGTAGGTTTATTGTGTT
TGTTTTTTTCACTACTTGTTTTCTCTGATAAGACTCAGGAATCTGAAATGTGAAATTGTCTCAATCTTTCTCT
TGTAGCATGAATCAAATGTATTTATTAATAGCACTTATGACTATAGAATATAATTTGGCATATGATTCATATTAC
ATATGTATTCATTTTATTTTAAAAATAGTTTATAAACTTAATGATTTTTTTTTTACAAATGAGGTTATAGATATTA
ATGCAAATTTTCTGGTAGGTATCTCTTTTTTGCTATGATGATTCCAACCTATCAGAGACCTCCCATTGCTTTT
TCATTACGGTGAAAGCTTTGCCCTCATCTACTAAAGTACAAAGGAATCTTTGGAAGCAGATTATTCTAGTCTTA
TGCTAGAGATGAATTTGATCATTTTAATGTGTGATCTTTTGCTCTATCAGGTATAATTGTTTTCTTTCTTTA
TAATGGGTAAGTTTTCTCACCTTTGAGTAACAGTAAAGTTTCAATTTATATGTCCATACCTAGAAGACCAGTGCAA
TACTTTGAGAGCACCTGGGTCTACAGGACATAATTGGCATCTAAATCCTCATTTCTTGCTATTAGTAGGAAAACA
GATATAGTATTGTAATACCCTTATTCTTTTTGAATCCTAATTACTCATTTGCGTTTTTTTTCTCTCTTTTGAATC
TAGTTGCTGGTTTTCGTTTAAATGATTTTAGTTTAAACAATCCCAACCAACAATACATTTGATTTATTTTTCTGT
CTAACCTGACAACCTTTTTCTTGCTCTTCTGTTTGTGTTAGTTTTTGTGAAAGGAATCATTGTTTAAAGATCA
CTGTTTTCTACTTGTTTTTACACTTCACGTATTTTGAAGTACATTTATTTACTAAGCATTTGTGACTTGAATAAT
TTCACCAAATGAATACATTTTGGTAGTTTGTAAATGAGTTCTTCTAATTGTTACACTTTGCTTGGTACTTAACAAT
AAATATGTAAAGGTAAAGAAATAATTTCTGTATTCTGCCAATCTTAATTTTATATAATAAATCATCCATTTT
TTCTTAAATAGTATGGATTGACTGTTTCTAAAAATACCAATCTGTGGCTGTGGTTTTTTCTTTCTTTCAGCATTC
CAGCATCCAAGTAAACAATAGTCCCTTATAGTCCCTGCTACTTGATGGGTAAATTTGGTTGCTGGGTTTTTAAAGTT
GCACTCACAATAAATCGTGCAAAGCATTGTCTATGCCCTTATTTACTCCATTTTAAATCCTGCATCCAGATTTATG
GCAGCAACACATATCTACAGGATACTTTTATGTTGTCCAAATATTGCTGTCAGTCATATGTACTTATAAAATGTC
TCCAGTCATGTATATTTATAGAAATGAAATGTCAAATTTCTCAGACTGTTAAAGTGCAGTATAAAGTTGCTTAAT
GCACACTTAAAAATGATATATAATTTCTGAATCCTATGAAATATGTGTTCTTTTTTAAATCTTTGGGAGTTTTCT
TAAGTTTTACATGTTTTTTGGTTTTATTGTTAATGATTTGTTTACTCTTTGCCAAATTTTGTCTAGTATTATT
TTACAATAGCACCTTTAAAAAAATGTATATGCTAATTTACTAAGCATATTCTATGTCCATTTTTATTGATCATC
TGATTTGTGAAATAACTTGAAATTTGTACTGTTTGGTTGTGAAATAATATTACCAATCTCTGTCTATTAGAAT
GTGACTTTTATGTTTCAAGTGAAGTGTGGGTTTATTAGAGCCAGCCATTCTCTCCCTTGATGCATTTTGTAAAC

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FIGURE 1682B

AGCTACACATGCTTTTAGGTGGCTTTTCCCTGATAGGGTCAAGTATATGACTATAAAACATTTTTCTTGTGAAGC
TATTAAGTTCATTAGTTACTCTTATTTCCCTTGTTGTAAGTGGTGCAGGTATAAGCATATCCCCAGCATT
CCGTGTGTGTGAATGTGCACTGCTGATTTGGACTGTTCTTGAGAAAGGTGCTGTGACATATGTCAATATTTGTT
AGCTCTGGGGATATCTTTAGAATGCTTGAGAAAGTTGCTAGGTGTGTGCCACATTGGTGCAGGTAAATCCATGCT
GTTACAGCCAAGCAGCATTTCAGAGAGAAAAGGAGAGTTTTACATAGACCCCAGGAAAAACAGTACTAACCTGGT
TGAITGGCCTTGGTGGTGAATTTTGTTTCAGCCAGAGGCTACTCATTATATCAGAATGATGTTTCAGTATAACACT
ATCTGATTTTGTAGATTGGTCGATTTCTGTTGTAATCAAGTATTTAGGATGTAATCTTTTTAAAGTCATTGCTTTA
ATCTGAAAAGCCATTAGAAGGGAGAGGAATCACTGTTCCACAGGATATTTAAACTCAGGAGTTCAAATAACCTC
ACATATTGAACATAAACTGTAACTTATTCACAATAAATTCTAACCTGATACTTATGAATTGCAAAGTGATTG
CTGCAAACCTTTTCTAAGGTGGCTGAAGATTTAAAATAGATCATTCTAAAGGGAAATCAGTAAAATGTCTTGATA
ATTGGTATCCAAATCACTTGTGTGCCTGAGAAAATAAAAGGTAATATTTTACTTTCAAAAAA

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FIGURE 1683

MASSVGLLPQTQLLSYLGTTLRTMEDVIAEQSVSGYFVFCLQIIISIGLMFYVVHRAQVELNAAIVACEMELKSS
LVKGNQPNTSGSSFYNKRILTFSGGGINVV

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FIGURE 1684A

CAATGCTACATATGTACAGCCTAGAAGAAAACAGAGAGATGAGCAGCTTCTGACAAATGTCCTGGAAACACTTCG
AGGTGATGGAAATGTGTTAATAGCAGTGGACACAGCAGGCAGAGTTTTGGAACTTGCTCAACTTCTTGATCAGAT
TTGGAGGACTAAAGATGCAGGATTGGGTGTTTACTCATTGGCCTCCTAAATAATGTCAGTTACAATGTGGTGGG
GTTTTCTAAGTCCCAGGTAGAATGGATGAGTGATAAATTGATGAGATGTTTTGAAGACAAAAAGAAATAATCCGTT
TCAGTTTCGCCATCTCTCTTTATGTCATGGTCTTTCTGACTTGCCCGTGTACCTAGCCCTAAAGTTGTACTTGC
CAGCCAACCTGACCTGGAATGCGGATTTTCAAGGGATCTCTTTATTCAGTGGTGTGACGACCTAAAAACTCAAT
CATTCTAACCTACAGAACTACTCCTGGGACTTTAGCACGTTTCTTAATTGATAATCCTTCTGAAAAAATTACAGA
AATAGAGTTGAGGAAACGTGTGAAGCTTGAAGGGAAAGAACTTGAAGAATACTTGGAAAAAGAGAACTAAAGAA
AGAAGCTGCCAAAAAGCTTGAGCAGTCAAAGAGGCAGATATAGATTCCAGTGATGAGAGTGATATTGAGGAAGA
TATTGACCAGCCATCAGCTCATAAGACGAAGCATGACTTGATGATGAAAGGTGAAGGCAGTCGTAAAGGAAGTTT
TTTCAAACAGGCCAAAAAGTCTTATCCTATGTTTCTGCCCCAGAAGAAAGAAATTAAATGGGATGAATATGGAGA
GATTATCAAACAGAGGATTTCTTAGTGCCAGAGCTTCAAGCTACTGAAGAAGAAAAAGCAAATTAGAATCTGG
TTTGACAAATGGAGATGAACCTATGGATCAGGATTTATCTGATGTTCTTACTAAATGTATTTCTACAACAGAGTC
TATTGAAATAAAAGCCCGGGTTACCTACATAGACTATGAAGGACGCTCTGATGGGGATTCCATTAAAAAATCAT
TAATCAGATGAAACCACGACAGTTGATCATCGTCCATGGCCACCAGAGGCCAGTCAAGATCTGGCAGAGTGCTG
TCGCGCCTTTGGTGGGAAAGATATTAAAGTGATACATGCCAAAGCTACATGAAACAGTTGATGCCACTAGTGAAAC
TCACATCTACCAGGTGAGGTTAAAGACTCACTTGTGAGCTCTCTTCAGTTTGTAAAGGCAAAGATGCTGAATT
AGCTTGGATAGATGGTGTCTTAGATATGAGAGTTTCCAAAGTGACACAGGGGTTATTTTAGAAGAAGGAGAACT
AAAGGATGATGGAGAAGACTCAGAGATGCAAGTGGAAGCTCCCTCAGATTCTAGCGTTATAGCACAACAAAGGC
CATGAAAAGTCTGTTCCGAGATGATGAAAAAGAAACAGGTGAAGAAAGTGAGATCATTCTACTTTTGAACCCCTT
GCCACCTCATGAGGTTTCTGGACATCAGTCAGTTTTTATGAATGAACCAAGGCTGTGACACTTCAAGCAAGTTCT
CTTACGGGAGGGGATTCAAGCTGAATTTGTAGGAGGTGTACTTGTGTGCAACAATCAAGTAGCAGTCCGCAGAAC
GGAACTGGACGCATTGGATTAGAAGGCTGCCTTTGTCAAGATTTTATAGGATAAGAGACCTTTTATATGAACA
ATATGCCATTGTATTAAGGACATGATGTCAAGAAGTATCTGCTTGACCTTTCTAAGAAAAAGGGATTCTTATCTT
ACTCTGAGCTTTTGATGTTTTGTTTTGTAAACATACAAAAGAACTCTGCCAGAAAACTTACATGTATCAGATTTT
TAAAAATATAAATAGAGAACATTTTGCAAATGCTCAAATGAGCATTCTATCTTTTGGCTTTTCAAGTGATAGAGC
TCCTAACAGGTGTACAGGCCCAAGAGTTGAAGGTGATTGGTTTTCTTTACAGACTCCTTGTTCTCTAGAAGGGCT
TTTTACTTGAATAAAACAATGCAACTTAGCAAACCAATTTATGGCCTTAGAGAAACATTTTTCATGAGTTCTTA
CAAAGTGTGTTATATTTTCTGGAATGATAAGTGAGAATTATTTAGAAAAGACATGCTCCAAAAAACAACAA
ACTGATAAAACAGTTTTTTCGAACTTACTTTTAAAGCATACGTGCTATGACTCTCTCCAGTTTGAATATGCAAT
TGTTTTACAGGCAGGATGTCTGTTTTCTGCCTGTATTTCCAGTGATTTACTCTAGGGTAAGGTAGTACACATT
TGGTTTCAGAAATTAATTTTATTTCTCCTATATCTTGTTTTATCAAGATTTTGTGTGGCATTTCATGTAAATT
ATAACACCATCATTTGAGTATACATAATTCAAAGAACTACTTGATGCAGTATAGTCTTAAGGGTCTGCATACA
TTTTAGAAACATCTTAGCCGTAAAGTTAGGTCCTGTGTTAACTGTTTAGTGCTCTGTTTTTAAGAAAACAAATGT
TGAACCTCACACTTTTATGTGGTGACAGTGTAATTTAATTAAGGTGTAAATGTTTTATCTCTTAGGCTTGCT
GTCTCCTAAGGTACCCCAAGCAGTGGTTGGATTTTATACACATTACTACTAAAATAATACTGAAGTTGGATAAGG
TTATCCTTTCTGTATTTGCGTCTTTCTTGTTGACTAACCCCTGATATAGTATTAACCACTGTGTTCAAGAGTAA
AAACAATATATGCAATTTTTCATTGAACTTAAAGAGTGAAAACCATGTAACTATTGAACTATTGTAATCCATTA
ATGCTTTTTTGAATGGCAGACCTTGATGTTTATTTCTCAAATGGTTAAGCCCTCTTCTTACTCTTAATTTTTT
TTTGAGACAGAGTCAACCAGGCTGGAGTGCAGTGGTGAGATTTTGGCTCACTATAACCTCTTCTCCAGGGTTCA
AGTGATTCTCCACCTCAGCCTCCCAAGTAGCTGGGACTACGGGCACATGCCACTGCACCTGGCTAATTTTTATA
TTTTTGGTAGAGACAGGTTTACCATGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCAAGCGATCCACCCACC
TAGGCCTCCCAAAGTGCTGGGATTACAGGCATGAATCACCACAAGTACCTACCTTAGATTTTTTGAAGGATCG
ATCTTATTTAACTATGTGTGGAACAACCCAGTAATATCAGACTCGAATTACTATTTTCAATCTATTTCAAATGCTT
ATAAAGCTACTATTGTAGATTATAGTGTAAATGCAAAGTTTACAGACTTTTGATATGGAAAACAGATAAAACAA
TGTTACAAAAGGCAAATATAAAGAGTATGTTTTCTTTTTAGTGCTTTGGAAAAATTTCACTTAACTCTTATTAC
TGTATAGATTAAGCCCTATAATGCTATTTATATTCCAGGGGAACGAAAATCTGAATTTGTTTTATGATTTAAAGC
ATCTGGTTTGCATATTGTATTGTAATACTGATACAGTTTGGCTGTGTCCCCACCAAATTGAATTGTGTTAATAGT

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FIGURE 1684B

TCCCATAATCCCTACGTGTTGTGGGAGGGACCCAGTGGGCAGTAATTTAATCATGGTGGTGGTTACCCCTCATGCT
GTTCTTGTGATGGTGAGTTCTCATGAGATCTGATGGGTGTTTTTTTTTGTGTTTTGTTTTTGTGTTTTTGAGATGGA
GTTTTGCTCTTGTTGCCAGACTGGAGTGCAATGGCACACGATCTCGGCTCACCGCAACCTCTGCCTCCTGGGTT
CAAGCGATTCTCCTGCCTCAGCATCTCGAGTAGCTGGGATTACAGGCATGCACCACCACGCCCAGCTAATTTTGT
ATTTTGTAGAGACGGGGTTTCTCCATGTTGGTTAGGCTGGCCTCAAACCTCCCGACCTCAGGTGATCCGCCCCG
CTGGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCTCCTGGCCCAAGATCTGATGGTTTTGTAAGGG
AATTTTCCCCCTTTGCTTGGCACTTCTTCCTGCTGCCATGTGAAGAAGGATGTGTTTGCTTCCCCTTCCACCATG
ATTGTAAGTTTCATGAGGCCTCCCCAGCCTGTGGGACTGTGAGTCAATTAAACGTGTTTACTTTATAAATT

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FIGURE 1685

NATYVQPRRKQRDEQLLTNVLETLRGDGNVLI AVDTAGRVLELAQLLDQIWRTKDAGLGVYSLALLNNVSYNVVE
FSKSQVEWMSDKLMRCFEDKRNNPFQFRHLSLCHGLSDLARVSPKVVLASQPDLECGFSRDLFIQWCQDPKNSI
ILTYRTTPGTLARFLIDNPSEKITEIELRKRVKLEGKELEEYLEKEKLKKEAAKKLEQSKEADIDSSDESDIEED
IDQPSAHKTKHDLMMKGEGSRKGSFFKQAKKSYPMFPAPPEERIKWDEYGEI IKPEDFLVPPELQATEEEKSKLESG
LTNGDEPMDQDLSDVPTKCISTTESIEIKARVTYIDYEGRSDGDSIKKIINQMKPRQLIIVHGPPEASQDLAECC
RAFGGKDIKVMPKLHETVDATSETHIYQVRLKDSLVSLSQFCKAKDAELAWIDGVLDMRVSKVDTGVILEEGEL
KDDGEDSEMQVEAPSDSSVIAQQKAMKSLFGDDEKETGEESEI IPTLEPLPPHEVPGHQSVFMNEPRLSDFKQVL
LREGIQAEFVGGLVCNNQVAVRRTETGRIGLEGCLCQDFYRIRDLLYEQYAI V

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FIGURE 1686A

GCAGGATGTGATGGAAATGAAAAAACAAGGTTTCGCCTAATGAAACAAATGAAAGAAGAACAAGAGAAAGCCAG
ACTGACTGAGTCTAGAAGAAACAGAGAGATTGCTCAGTTGAAAAAGGATCAACGTAAAAGAGATCATCAACTTAG
ACTTCTGGAAGCCCAAAAAAGAAACCAAGAAGTGGTTCTACGTCGCAAACTGAAGAGGTTACGGCTCTTCGTCG
GCAAGTAAGACCCATGTCAGATAAAGTGGCTGGGAAAGTTACTCGGAAGCTGAGTTTCATCTGATGCACCTGCTCA
GGACACAGGTTCCAGTGCAGCTGCTGTGCGAAACAGATGCATCAAGGACAGGAGCCCAGCAGAAAATGAGAATTCC
TGTGGCGAGAGTCCAGGCCCTTACCAACGCCCGCAACAAATGGAAACAGGAAAAATATCAGAGGAAAGGATTGAC
TGGCCGAGTGTATTATTTCCAAGACAGCTCGCATGAAGTGGCAGCTCCTTGAGCGCAGGGTCACAGACATCATCAT
GCAGAAGATGACCATTTCACATGAGGAGCAGATATGAATAGACTCCTCAAGCAACGGGAGGAACTCACAAAAG
ACGAGAGAAACTTTCAAAAAGAAGGGAGAAGATAGTCAAGGAGAATGGAGAGGGAGATAAAAATGTGGCTAATAT
CAATGAAGAGATGGAGTCACTGACTGCTAATATCGATTACATCAATGACAGTATTTCTGATTGTGAGGCCAACAT
AATGCAGATGGAAGAAGCAAAGGAAGAAGGTGAGACATTGGATGTTACTGCAGTCATTAATGCCTGCACCCTTAC
AGAAGCCCCGATACCTGCTAGATCACTTCCTGTCAATGGGCATCAATAAGGGTCTTCAGGCTGCCCAGAAAGAGGC
TCAAATTAAGTACTGGAAGGTGACTCAAACAAACAGAAATAACCAGTGCTACCCAAAACCAGCTCTTATTCCA
TATGTTGAAAGAGAAGGCAGAATTAAATCCTGAGCTAGATGCTTTACTAGGCCATGCTTTACAAGATCTAGATAG
CGTACCATTAGAAAAATGTAGAGGATAGTACTGATGAGGATGCTCCTTTAAACAGCCCAGGATCAGAAGGAAGCAC
GCTGTCTTCAGATCTCATGAAGCTTTGTGGTGAAGTGAACCTAAGAACAAGGCCCGAAGGAGAACCACCACTCA
GATGGAATTGCTGTATGCAGATAGCAGTGAAGTACTGCTTCAGACACTAGTACAGGAGATGCCTCCTTGCTGGCCCC
TCTCACACCTGTTGCAGAAAGGGCAAGAGATTGGAATGAATACAGAGACAAGTGGTACTTCTGCTAGGGAAAAAGA
GCTCTCTCCCCACCTGGCTTACCTTCTAAGATAGGCAGCATTTCCAGGCAGTCATCTCTATCAGAAAAAAAAT
TCCAGAGCCTTCTCCTGTAAACAAGGAGAAAGGCATATGAGAAAGCAGAAAAATCAAAGGCCAAGGAACAAAAGCA
CTCAGATTCTGGAACCTCAGAGGCTAGTCTTTACCTCCTTCTTCCCCACCAAGCCGGCCCCGTAATGAACTGAA
TGTTTTTAATCGTCTTACTGTTTCTCAGGGAAACACATCAGTTCAGCAGGATAAGTCTGATGAAAGTGAATCCTC
TCTCTCGGAGGTACACAGATCCTCCAGAAGGGGCATAATCAACCATTTCCTGCTTCAAAGGAATCAGAGCTTT
TCCACTTCAGTGTATTACATAGCTGAAGGGCATACAAAAGCTGTGCTCTGTGTGGATTCTACTGATGATCTCCT
CTTCACTGGATCAAAAGATCGTACTTGTAAAGTATGGAATCTGGTGACTGGGCAGGAAATAATGTCACTGGGGGG
TCATCCCAACAATGTCGTGTCTGTAAATACTGTAATTATACCAGTTTGGTCTTCACTGTATCAACATCTTATAT
TAAGGTGTGGGATATCAGAGATTGAGCAAGTGCATTGCAACACTAACGTCTTCAGGTCAAGTTACTCTTGAGAG
TGCTTGTTCTGCAAGTACCAGTGAACAGTAGCTATTCTCTGAGAGAAACCAGATCAATCAAATTGCCCTAAA
CCCAACTGGCACCTTCTCTATGCTGCTTCTGGAATGCTGTCAGGATGTGGGATCTTAAAGGTTTTAGTCTAC
AGGAAAGTTAACAGGACACCTAGGCCCTGTTATGTGCTTACTGTGGATCAGATTTCCAGTGGACAAGATCTAAT
CATCACTGGCTCCAAGGATCATTACATCAAATGTTTGATGTTACAGAAGGAGCTCTTGGGACTGTGAGTCCAC
CCACAATTTTGAACCCCTCATTATGATGGCATAGAAGCACTAACCATTCAGGGGATAACCTATTTAGTGGGTC
TAGAGATAATGGAATCAAGAAATGGGACTTAACCTAAAAAGACCTTCTTCAGCAAGTTCCAAATGCACATAAGGA
TTGGGTCTGTGCTTGGGAGTGGTGCCAGACCACCCAGTTTTGCTCAGTGGCTGCAGAGGGGGCATTTTGAAAGT
CTGGAACATGGATACTTTTATGCCAGTGGGAGAGATGAAGGGTCATGATAGTCCATCAATGCCATATGTGTTAA
TTCCACCCACATTTTACTGCAGCTGATGATCGAACTGTGAGAATTTGGAAGGCTCGCAATTTGCAAGATGGTCA
GATCTCTGACACAGGAGATCTGGGGGAAGATATTGCCAGTAATTAACATGAATGAAGATAGGTTGTAACTGAA
TGCTGTGATAATACTCTGTATTCTTTATGGAAATGTTGCTCTGACTTACTAGGCAAAACGTATGAATCGGATT
AACTGGAAAATATATCTGAATTCAACTGCTGACTATAAATGGTATTCTAATAAAATTGTGTACTATCCTGTGTGC
TTAGTTTTAAGATCAACCAATAGATATATATCCTACAATTGATATATTGCTTTTATTACACTTTTATTGTGGCTG
AATTTTTGTGCTATCTATAAAACACACTTTCAAATTATTTGAATTACCAAGACGCTGCTTTTGTGACAGTCAG
AAAACACACCTGGAATACGATGCAGCCACCATTAACTCATTGATAGTTTATTCAAGTGATTTATGTATTTAA
ACTAAATATTGAAATGTTAGTCAAATTGTGGTTTGTCTGCTGAGGTATTTATATCAGTCTGTAGTGGATTCCCAA
ATTTCAAAGCTCTTTTAAATGTAATGGACAAAAATAAGATATGAGAATATTATTGATGAATTTTCATAAGGTGGAA
TTGATCTTAATCTACTAACAGAGAAGGGTAGACAGTTTGTGTTAAATGTTGGCATTCTTGTATTGACCAAAGT
TTTGCAGCTCTACTATATTCTGTGCTCAGGACTAAAATGCTGTTAATTTTTTTTTTTTTTCCAGTGTGTGCAT
ATATTCTGTGATGGGAAACATTGTTGATGTCCTAACAGAAATATTTTTGATCTATTTTCTATGGAGTTGTTTC
TATTATGACCATTAAATTTGTTTTTATTTAATAGTAGTATTCCTTCCCTTTTATCTAATTTTTTATATGCTGC

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FIGURE 1686B

TAAATATATTTTAAATATACTATGTTTGCGAACCTTGGTAGCTATGATGAGAGCTATTATCATCTGTGGTGGGAA
AAGCTATGTAAATAGGTAGATTGTATAGAGAGACTATCTTGTGTTGTGCCTGTATGAATTTTAAAAGTTGTTGA
CTGGATTTTGCAAAAGGATGTATAATATTTCTGTCTGCTCAGAATATTAATTTGTAAATTCTGCAAGTTTAATTT
TTATGTAGATGGTATAACATTTGAAAATATTGTCTTATGTGATTTTTTCCCCTGAAAATATTTGCTTGTAATGA
AACTTAGCTAGGGCTTAAATAAACATGTTGCTATGAAATT

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FIGURE 1687

QDVMEKKT KVRLMKQMKEEQEKARLTESRRNREIAQLKKDQKRQDHLRLLEAQKRNOEVVLRKTEEV TALRR
QVRPMSDKVAGKVTRKLS SSDAPAQDTGSSAAAVETDASRTGAQQKMRIPVARVQALPTPATNGNRKKYQRKGLT
GRVFISK TARMKWQLLERRVTDIIMQKMTISNMEADMNRLLKQREELTKRREKLSKRREKIVKENEGEDKNVANI
NEEMESLTANIDYINDSISDCQANIMQMEEAKEEGETLDVTAVINACTLTEARYLLDHFLSMGINKGLQAAQKEA
QVLEGR LKQTEITSATQNQLLFHMLKEKAELNPELDALLGHALQDLDSVPLENVEDSTDEDAPLNSPGSEGST
LMLKLCGEVKPKNKARRRTTQMELLYADSSSELASDTSTGDASLPGLTPVAEGQEIGMNTETSGTSAREKE
PPGLPSKIGSISRQSSLSEKKIPEPSPVTRRKAYEKAESKAKEQKHSDSGTSEASLSPSSPPSRPRNELN
VFNR LTVSQGNTSVQQDKSDES DSSLSEVHRSSRRGIINFPFASKGIRAFPLQCIHIAEGHTKAVLCVDSTDDL
SKDRTCKVWNLVTGQEIMSLGGHPNNVSVKYCNYSLVFTVSTSYIKVWDIRDSAKCIRTLTSSGQVTLGD
ASTSRTVAIPSGENQINQIALNPTGTFLYAASGNAVRMWDIKRFQSTGKLTGHLGPVMCLTVDQISSGQDLI
KDHYIKMFDVTEGALGTVSPTHNFEPPHYDGEALTIQGDNLFSGSRDNGIKKWDLTQKDLLQQVPNAHKD
ALGVVPDHPVLLSGCRGGILKVWNMDTFMPVGEMKGHDSFINAICVNSTHIFTAADDRTVRIWKARNLQDGO
ITGDLGEDIASN

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FIGURE 1688

CTATTTTGTGGTAGTATTGTGGAACAGTCTTGTTATGGAGTGCCAGCTTAGAGGTTGTTGCAAACCTTGCTAGAG
AGTGAGAGCATGGTTTTTTTTTAGCCCTTTGAGAGTCTACATCTAATGAACATTCTTGCTCACCATAAATAACGT
CAAGCCTCAATGTCACCGTCACGTTGGGATACTCTTTCTCATCTGGCATCCTAGACAGGACAAGGTTGGTTACCT
TTCTTTCCATGAACCATGAACCTGTGACGGCATCATTTCATCTGACTTCACCAAGCTCCGCCTGTGGGTGAGGCC
AGAGCTCCCAGTGGCAATTTTGTAGAAGAGCCAGAGGCTCCCTGCTTCTCTAGAAATAACAGTTTCAGGGTGAAGC
ATGGAGGGTTTCAGTTCCCAGACAACGGAACATTTAGAGACAACACAGTTGGACATTTCCACTTTTTCTTGAT
TCCTGGAAGTCCAGTGGGTTCTGCAGCTGAAAAAGCCCTGGGTCCCAGCAGCAGAGAGACAGGACAGAGGGGATG
CTTGGGCGGGGAGGGACGGTAACCTGCAGAACAGATTCCATTTTTATAGAACGAGTACACGTTTGCTAAAACAGT
CCTGCTTTCCCAGACTGGATTCCCACCACAGGGACAGTCGGAACCTCAGGACTAGCTCCAGCGACATCTTTCTCTCC
GAATTCAGCCTTCTATCACAATGTCAAAACAGCTATTTATAAAGCCATTTTCATTGTACTTGATAACAGCACGA
GTCCCAAAACTTTTAGAAATAAAATAGGACATTGGCTTGATTGAAAAGAGGGACTTTTTAAAAATTGTTCTTTTCG
TCAGAAGCCTTTTGGATGACTTACAATAGCTCTGATGAAGATAACACCCCAGCGTCAGTCCAATAGGTCAGTGAG
TTTCAACAGGCATCCATCCCTCCCATGAAGGGATTCTGGTGATGGGAAGTTTCTGTAATGACAGGAAAGCATTGA
CCCTCATTGATTGTCAACTTTGGTATTAGCCATGAAAGACAGGATGCTCATTGGGTGTTCTGTAGAGTGAGGAAT
GCTGCCTATTCCTCCCAGAACGTCTGACCCAGGGGTGTGTGTTGAGGAGCCCTGGGGGAAATGGACCAAGTTTTT
CCCACAGAGCAGTATTAGGCTGAAGAGCAGGTGACTGGTAGGCCCCAGCTCCCATCATTCCCTCCCAAAGCCATT
TTGTTTCAGTTGCTCATCCACGCTGGATTCCAGAGAGTTTTTCCAATTTGGGAAGCCATGAGAAAGGTTTTTAAATC
TTGGGAAGATGGAGAGAGGGACATAGGATAGTTGACTCCAACATGACAGGAAGAGGCTGGAGATTGGGAATTGGC
CATCAACCAAGCCTGTAGTAGTAAAGCCATGGTCCCGCATTTGGAATTACTTGGGGAACCTTATACAGTTCTGATAC
CCAGGCTCTCCTAGACCAGTTCAACCAATTCTAGGTGGGGGACTCAGGCATCAGTGTGTTTTCTGAGCTCCCCGGG
TGTTTTCCCTGTGCAGCCGAGCTTTGGGAAACTGCCATGCTTTTTGGATGTCAAGGCGCTGTTGGAGGCTGGGTGT
GACAGCACAGAGCCAGGTTGTCTTGTGGAAACCACAGCCACGGGTTTGCCACTGGCTCAGCATGGCCTCACTGCC
AGTCCCAGCCTGGCTGAGGGACAAGATGGTTTTCTCTTGGGAGTTCTGAGTGGAGCACCTTCCAGGCTTTTTGA
AAGCCAGCTGATCTGTGGAGCCTTGTTAAGGGACTCAATACGGTGTGTTGGATATTGATGTTTTTCTTGAGACTG
TCTTGTCATCAATAAAGATGGAGGATGTCTCTCTTTGAACCCGCTTCCCCACCAGTACTCTCTCTCCCTTAG
AGTTTATGAGTTATTCAAGGAGGAGACTTCTTAAAGACAGCAACGCAATTCTTGTAACCTTGTAATAGCCCCA
TCTTTCAGAGTGATACCATTTCTACATTTGATAATGCCTGTATTCTGTAGGATGTATATAGTTTAGGGGATTTT
TTTTTTGTTTGGTTTTGTTTTTTTAGAAGTCAATATGTCTGGTTTTATTATTGCTTGAAAAAGATCATTGAAAA
AAATAAATACATTTTCAATTCCAGAAAGGATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATG

1866/2682
FIGURE 1689

MSGAEKEVM

1867/2682
FIGURE 1690

GCGCGAGAGGACGTGCTCTGCCAGCCAGTGGGAAGGCAGGCCGCGCGCGGGAGCGCGGGAGGATCGGCGGCTC
GCGGTCACTGGTCCCTGGCTCGGTTCCTCGATTCCCTCGCTCTGAGCCGGGAGAGCCGAACAGCTGAAGAGA
TGTCCACCCCATCTGCGCCAGTCTCTCGATTCCCTCGCTCTGAGCCGGGAGAGCCGAACAGCTGAAGAGA
GTTCACTGACTCCCCAGCCCCAGGTGGGCCTTGTGCACATCATGACCAGTTTTGAAGATGCTGACACAGAAGAGA
CAGTAACCTGTCTCCAGATGACGGTTTACCATCCTGGCCAGTTGCAGTGTGGAATATTTCACTCAATAAGTTTTA
ACAGAGAGAACTCCCTTCCAGCGAAGTGGTGAATTTGGCCGAAATTCCAACATCTGTCAATTATACTTTTCAGG
ACAAACAGGTTTCCCGAGTTCAGTTTTCTCTGCAGCTGTTAAAAAAATTCAACAGCTCAGTTCTCTCTTTGAA
ATAAAAAATATGAGTAAAAAGACCAATCTGATCGTGGACAGCAGAGAGCTGGGCTACCTAAATAAAATGGACCTG
CCATACAGGTGCATGGTCAGATTCCGAGAGTATCAGTTTCTGATGGAGAAGGAAGATGGCGAGTCATTGGAATTT
TTTGAGACTCAATTTATTTTATCTCCAAGATCACTCTTGCAAGAAAACAACCTGGCCACCACACAGGCCCATACCG
GAGTATGGCACTTATTCGCTCTGCTCCTCCCAAAGCAGTTCTCCGACAGAAATGGATGAAATGAGTCATGAACA
CAGAAAGTCTAAGAGGAGAAATATGATGGATGAAGAGCTCTGTAGATGCTGTATAGACACTAAATAAGAGTTGAT
TAGGGTAGTATATTATAGTCATCTGTTATGCTGTGAAATTTGGAATTCAGTATTATCATTGGAAGTCTGTAAAT
TGTGTTAGTCATTAACCTTAGTCACCTGTTGTTATTCTGGATCTACACAAAATTATTTTAACTGCTCTTATTAATCT
GTGAGGATTAATATACAAAAGTATCCTTTGAGATGAAGTCGTGTTCTCAAAATAAGGTTATATTATTTCTTTT
TCTGCTTGATTTTCATCTTGTGTTTTGCTTTGTTTTGTAAGGAACCATCTCTTGGTTTGGTCACATCAGTTTAC
AACAGCCATTTGTTTTCAAGGTCAAGGCTCCAGGCAGGTTGTTACTGGTGTGTCAGCCTGTGAGTACTTGCAGT
ACTGGAATAGGTTCTAGGCTAGTGTCTGCGCTCACTGTGGTTTTAGCATGGGAGGACTTATTTGAGAAATACTA
CCTTACTTTTCTATGATTTCTTTTACAGAGTTATAGTGTGTTTACTCCTAAGATGACAGTTCTCTTTGTCTATA
TTCAGCATCTAAGACAAATATTTAAACATTTTAAAGAACCCTGTGTTAAGTTTAGGATTATTTACTTACCAAAT
TAGAAGTTTGACTTTTATGTGTTATACACAATCTTAAATTTTACGAATTCACCTTTTTAATAGTATCCATGTAC
ATAATAAAATCAAAGTTTAATTAGCCATTTCTTTGAATTTTTTCTAAATAAGGGAAATAACTGTTCTTGGGCC
ACTTTACAGAGATAAATGTATGTGAATGTTTATGATAAACGCTTAAATATTTCTAAATATTAACCTCAAAAAG
TCTTTTTCAGTTCTTAAATAAAAAATTTATTTATTTAAGATACTTATTCGACTTATCTTAACTAAGGTAGCTATGA
ATGTTAAGTAGATGAGGTAACCATTCAAGTTAAGTTAAATTGTAGCATTGCCAGGTAGTGAGGCTCACTGTACAAT
TTTCCAGGTAAATGAAATTTCTGTAGTAAGAGGTCCGTATTTTTGTAACAGCCTTTTAAAAATGCTTTTGGGAA
CCCTCCAGCCTCTTACCAAAAGAGGCTTTAAACCTCATCTTGATTGAGACTGTCAGTCTATTCTTGGGCAGTAGT
ATGTGATGTCCAGCACCTTAACCCGACTCCCAGCCCTGGGACTATTCCAGTAGAGTGAAATATTTGTCCCTGT
ACAAAGTGGCCTGAATGACTGTTGGAGTTCCTGTGTCTGGTTTTCTGTTTATTCCCTGTGATGCCAGAGTAAT
GGCCCATCCAAAGATGTCCAGATGTCCATGTGCTAGTCTCCAGAACTTGTAAGTGTGTTGTTATGTGGCAAAGGG
GAATGAAGGCTGCAGATGGAAGTAAATAGATTATGCTGGATTATCTGGGTGTGCCAATTGATCACCGGATCCG
TAAAAGTGAAGAGAGGCGAGATCAGGATGTCAGCGTGATGAGGTGTGAGACAGACTTGACTTGCTGTTGCTGGGA
GGAAGGGGAGGTGATGAGCCAAGGAATGTGGACAGTCTCTTGAAGCTGGAAGTGTGCATTGGACATCTGGAAGC
CAGAAAAGACAAAGAAATATCCAGAAAGGAACAAAGTCTTGTGGACACCTTGATTTTGGTCCAGTGAGAATATGT
TTGACTTGTTAACCTACAAAACCTTTATGATGATAAATTTGTGTTGGTCGTAAGCCACTAAATCACAGTAATTTGT
TATAGCAGCAGATAGAAAACCTAATACTCCCTTTAATATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1691

TACAGGCGTGAGCCACCACCCCGGCTGTATTTTCAGAGAGGAGAGCTTGGTGTTTTTGTGGTGCCAAGTGGTAA
GATAATGTCTCTTTGAGGCTTCCTATGGACTGCCTTTATTTTAGTAAACTCAAGACACCAGTTAACCTCAACAGA
GTTTTGGCCTTATTAGAATTTGTTGTGCATCTTATTGAAAGCCAGGTTTACATCACCTCACCCCATTTCTTTT
TAGTTAAATAAATTTACCATGCCAAGTAACCAGAATGGAGCAAATTGGTTGATCTTTAAGGCAGTAGGTTTGACT
AGCTAGCTATCATTATTGTACATCTAATGCTAGGCACCAGAAACCATTTGAGCCAGGAGTGTGAATGAATAATT
CCAGAGACACTTTAGACATTTTTTAATGTTTTATATGAACATTTTACATTTGTGTGATTGCCTTAGATATTAAAT
TTTCCTAGTGCTGATAAAAACAGCAACATTCATAACTTATTTTATATATTGTTCCAAAGAAAAGAATTTGTTTTA
ATGGTTTTCAAATAAAGTGCACCTGAATTTGTTTATGTGCTTAAAGTTCTCTAGTGCTATTTCAACTTTTTTTTCA
ATCTAAATGAAGCTTACCTTAGATAAGGTTTCATATTTGTTTCTATAGAGTAAATAAACTTCCCCTTCTTAAATT
GTGTAATAAGCACCAACGTGTGGTTGCTTGGCAGAATGAGAATGTTAAGGGAGATTGTTGGATGTTTGGAGTTTC
ATTATATTTTTTTGTTTTTATTTTTTGATACCTAGGTGCTTTTTTAAAATATTCAGACAAATATCTATCTTACATTG
ATTAAACCCGTGTAAATTCATTTGCAGTATCTACATCGAATGTCAAAAAAGTATACTTATTTTTGTTCCATACTT
ATGTACAATTTTTTCCCCTCTTCAGGCTTTTTTCATTTACCTTTTTTGAAAAAGCACTTACTCTCCCCTTCCCTATCA
CCCCTCCCCCAAGGTTTCTTTATTTAAATTTTTTATTGAGAGTTGTTGGAGCTCTAAGACAATACAAATTTAGAGT
TGAACAAAAGTATAATCTGCTTTACAACCTAGTATAGACCTAAGGTCATTTGCTTTCAATTAGAGGCTCCAGAGTC
TTCATAGTGGAAGAATGCTTTGTATTTAATTGTTCTTAGTTAAGTTGTAGCACGTGAATACTTACTTACATGTT
TTGTTTAAATATACTTCTTGCTAGTTTAATTTTTTAAAGTTGTATCTAATAAAATGTCTTTTAACCATTTATTA
CTTGACTATATGGTTGTCTTAAATTTTGTTACG

1869/2682
FIGURE 1692

TGVSHHPRLYFQRGELGVFVVP SGKIMSL

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FIGURE 1693

GTGGGGTTTGCAGAGGAGACAGGGGAGCTTTGTGTACCCGGAGCAATGAACAAGCGGGCGACTTCTCTACCCCTCA
GGGTGGCTCCACGGTCCCAGCGACATGCAGGGGCTCCTCTTCTCCACTCTTCTGCTTGTGCGCTGGCACAGTTC
TGCTGCAGGGTACAGGGCACTGGACCATTAGATACAACACCTGAAGGAAGGCCTGGAGAAGTGTGAGATGCACCT
CAGCGTAAACAGTTTTTGTCACTGGCCCTGCAAATGCCCTCAGCAGAAGCCCCGTGGCCCTCCTGGAGTGAGCCTG
6' AAGATGGCTGTGGATGCTGTAAAATCTGTGCCAAGCAACCAGGGGAAATCTGCAATGAAGCTGACCTCTGT
ACACAAAGGGCTGTATTGTGACTACTCAGTAGACAGGCCTAGGTACGAGACTGGAGTGTGTGCATACCTT
GTTTGTGGGTGCGAGTTCAACCAGGTACATTATCATAATGGCCAAGTGTTTCAGCCCAACCCCTTGTTTCAGC
TGCTCTGTGTGAGTGGGGCCATTGGATGCACACCTCTGTTTCATACCAAAGCTGGCTGGCAGTCACTGCTCTGGA
CCTTAAGGTGGAAAGAAGTCTGATCAGTCAAACCTGTAGCCTGGAACCATTACTACAGCAGCTTTCAACAAGCTAC
AAACAAATGCCAGCTTATAGAGATCTCCCACTTATTTGGAAAAAAATGTCTTGTGCAAGCAACAAAATGGACT
CTCCAGAACATGTGGGATGGGAATATCTAACAGGTGACCAATGAAAACAGCAACTGTGAAATGAGAAAA
TAAGACTGTGTTACATTTCAGCCTTGCGACAGCAATATATTAAAGACAATAAAGATTCCCAAAGGAAAAACA
TAACCTACTTTTCCAACCTCTCCAAAGCTGAAAAATTTGTCTTTTCTGGATGCTCAAGTACTCAGAGTTACAAA
CCCACTTTTTTGTGGAATATGCTTGGATAAGAGATGCTGTATCCCTAATAAGTCTAAAATGATTACTATTCAATTT
GATTGCCCAAATGAGGGGTCATTTAAATGGAAGATGCTGTGGATTACATCTTGTGTGTGTGTCAGAGAACTGCAGA
GAACCTGGAGATATATTTTCTGAGCTCAAGATTCTGTAAACCAAGCAAATGGGGGAAAAAGTTAGTCAATCCTGT
CATATAATAAAAAAATTAGTGAGTATAAAATGGTGGCAAATCTACTTTGTTTAAACAGTATGAATGCCTATTCT
CAGATCACTACATTTAAGGCATTAGAACTTTTAAAAAGTTATCTTAAAAATATACATAAAATTTGAACAACCTTA
AAAATTGAACATAATTTCTAAAATATATCCTATAATTATATAATACACAGACATTTGTTACCATCTAAGCATTTTG
TATATGAAAAAATTATGCAATTTACAAGAAAAATTTTACAAAATAATCTGGAATACTTGCTAAAGCTGTATAAA
AAGTATACTAAATTTTAGGCTGGGCGCAGTGGTTTCATGTCTGTAATCCCAGCACCTTCGGGAGGCCAAGGTGGGCA
GATCATTGAGGTGAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTGTAATTAATAAAAAATACAA
AAATTAGCCAAGTGTGGTGGCATGCGCCTGTAATCCCAGCTACTCGGGAGGCTGAGTCAGAAGAATTGCTTGAAC
CCAGGTGGTGGAGGTTGCAGTGGGTCAAGATTGCACCACTGCACTGGCACGGAGAAGCGAGACTCCTTTGGGGGA
GAAAAAACATACTCAATTTAAAAATTTAATCTATATTTGACAATGTAGCCTAAGGTGCCATTAGTTGATACA
TCATTATAGGGCAAGTGAAATTTCTAGATTAATTTCTTGAACAGAAATAAGATTAAAGCTGTAAATATATTTAGACTT
TTCCTGCTGATCTTGAATATCAGTTTCTTTTGGAAAGGAGAAAATGCAACTTTTCTGGCCACTGTTAACAACCT
GCAATCTAAAATTTTTTACATCAAATATTGTAAAAAGTTAAATTTCCAAGACAAAGACCAAGAACAGTATCATT
CTTTGCAAAGGAAAGAAATATAAAGAATACAACCTTAAATTAACCTGTGGATCTGAAATATAAAATGTTATTAAA
AATAAATTAATGTTAAGGCTAGAACTGAAGATTATAGTAACCGGAACAATTATAGCCATTTATTGCAAAGTTTGG
AAGATATCAAGCTTAGTAACATTCTGTTTCATTTGCATAAATGTCATGCAGAACATAACAAGTAGCACTGTTGAA
AAATATAGACATTTATTATAAAATCAATTGGTTTGATAAGAAAGCAATTATTTAAAAAGTTAATACAAATACAT
GTTAAGTGACAAATTAGGATTCTTTTGGGCAAACAAGTTGTTATCTAAAGAAGAAGCAAAACCTCCTTAACAGT
TGTAATAAAACCTATGCCTGAAAAGTTGGTGGCTATTAAAAAA

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FIGURE 1694

MNKRRLLYPSGWLHGPSDMQGLLFSTLLLAGLAQFCCRVQGTGPLDTTPEGRPGEVSDAPQRKQFCHWPCKCPQQ
KPRCPPGVSLVRDGCCKICAKQPGEICNEADLCDPHKGLYCDYSVDRPRYETGVCAYLVAVGCEFNQVHYHNG
QVFQPNPLFSLCVSGAIGCTPLFIPKLAGSHCSGAKGGKKSQSNCSLEPLLQQLSTSYKTMFAYRDLPLIWKK
KCLVQATKWTPCSRTCGMGISNRVTNENSNCCEMRKEKRLCYIQPCDSNILKTIKIPKGKTCQPTFQLSKAEKFV
SGCSSTQSYKPTFCGICLDKRCCIPNKS KMITIQFDCPNEGSFKWMLWITSCVCQRNCREPGDIFSELKIL

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FIGURE 1695

GGGCTGCGGTACGGCGTGTGGTCCAGCGGTTACAGTGAGGTAGGGACGTGCTGTAGGCCGGAATGTTACCGGC
TGTTGGATCTGCGGATGAGGAGGAGGATCCTGCGGAGGAGGATTGTCCTGAATTGGTTCCCATGGAGACGACGCA
AAGCGAGGAGGAGGAGGAAAAGTCTGGCCTCGGCGCCAAGATCCAGTCACAATTATCACCGGGTATTTAGGTGCTGG
GAAGACAACACTTCTGAACATATTTTGACAGAGCAACATAGTAAAAGAGTAGCGGTCAATTTAAATGAATTTGG
GGAAGGAAGTGCGCTGGAGAAATCCTTAGCTGTGAGCCAAGGTGGAGAGCTCTATGAAGAGTGGCTGGAACCTAG
AAACGGTTGCCTCTGCTGTTTCAAGTGAAGGACAATGGCCTTAGAGCTATTGAGAATTTGATGCAAAAGAAGGGGAA
ATTTGATTACATACTGTTAGAGACCACTGGATTGGCAGACCCAGGTGCAGTGGCTTCTATGTTTTGGGTTGATGC
TGAATTAGGGAGTGATATTTACCTTGATGGTATCATAACTATTGTGGATTCAAAATATGGATTAAACATTTAAC
AGAAGAGAAACCTGATGGCCTTATCAATGAAGCTACTAGGCAAGTTGCTTTGGCAGATGCCATTCTCATTAAATAA
AACAGACCTGGTTCCAGAAGAAGATGTAAAGAAATTAAGAACGACAATTAGATCCATAAATGGACTAGGACAAAT
CTTAGAAACACAAAGATCAAGAGTTGATCTCTCTAATGTATTAGATCTTCATGCCTTTGATAGTCTCTCTGGAAT
AAGTTTGCAGAAAAAACTTCAGCATGTGCCAGGAACACAACCTCACCTTGATCAGAGTATTGTTACAATCACATT
TGAAGTACCAGGAAATGCAAAGGAAGAACATCTTAATATGTTTATTTCAGAATCTCCTGTGGGAAAAGAATGTGAG
AAACAAGGACAATCACTGCATGGAGGTCATAAGGCTGAAGGGATTGGTGTCAATCAAAGACAAATCACAACAAGT
GATTGTCCAGGGTGTCCATGAGCTCTATGATCTGGAGGAGACTCCAGTGAGCTGGAAGGATGACACTGAGAGAAC
AAATCGATTGGTCCTCCTTGGCAGAAATTTAGATAAGGATATCCTTAAACAGCTGTTTATAGCTACTGTGACAGA
AACAGAAAAGCAGTGGACAACACGTTTCCAAGAAGATCAAGTTTGTACATAAACACTAGAGGCATTTCTTATCAAA
AGGATTGGATAATAAAAATAAGTTTCTACTGGGTATATTTCAAGCATTTATTTATTACTTTAGTTACGAATTCCA
ATATACTTTAAATGGTATTTGTTTTACAGCATACATAAAATGTAGCAAATCAGTACTGTAAACATTTAACATT
CATACAGTTATATATAATATCCTTTTTTTTAAAGAATGGTATTTCACAAAAATATCTTTTGAAATTGGCTTTGGA
GTTTACATATACTGAACATGAAAGTTTATAATAATGATGATACAACCTTCAACATTGTCATTTTTTCTTAGAACT
TCAGCTGATTGCAGAGATATAATGATTACATTGTTATTAAATTTTTTTAAACAAGTAAGTGTACCATTTTATG
ACATGAAATAAAAGGTTATGACTGTTATCG

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FIGURE 1696

MLPAVGSADEEEDPAEEDCPVLPMETTQSEEEEEKSGLGAKIPVTIITGYLGAGKTLLNYILTEQHSKRVAVIL
NEFGEGSALEKSLAVSQGGELYEEWLELRNGCLCCSVKDNGLRAIENLMQKKGKFDYILLETTGLADPGAVASMF
WVDAELGSDIYLDGIITIVDSKYGLKHLTEEKPDGLINEATRQVALADAILINKTDLVPEEDVKKLRTTIRSING
LGQILETQSRVDLSNVLDLHAFDSLGSISLQKKLQHVPGTQPHLDQSIVTITFEVPGNAKEEHLNMF IQNLLWE
KNVRNKDNHCMEVIRLKGLVSIKDKSQQVIVQGVHELYDLEETPVSWKDDTERTNRLVLLGRNLDKDILKQLFIA
TVTETEKQWTTTFQEDQVCT

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FIGURE 1697A

CAGGGCTGGCTTTTTTTTTTTTAAATAAGATAGCTGGTGCCCAAGATTGTTTTCCACCTTAAGGATAAAACCTGTT
AAGAAAGCCTGAACAATTACAAAAAAGGAAGAAAAGGAGACTTGGCCAACCTGGTGTGTCAGGAGTCTTAACAAGGTC
ATAGTTTGCCAGCCCCTGCCCTAAACAAATAATTCTTGAATGCCTACTGTGGTGTGTAAGATATGAGTAAATACC
AGGGATACACAGAGAACAAAAGAGAAAAAACTGCTATTCTTGTGAACTTGGGAAGTTGGAGGAGACTTGGGAAGATG
CAGAACTGGATGACTACTCATTCTCATGCTATAGCCAGTTGGAAGTGAATGGATCGCAGCACTCACTGACCTGTG
CTTTTGAGGACCCAGATGTCAACACCACCAATCTGGAATTTGAAATATGTGGGGCCCTCGTGGAGGTAAAGTGCC
TGAATTTTCAGGAACTACAAGAGATATATTTTCATCGAGACAAAGAAATTCTTACTGATTGGAAAGAGCAATATAT
GTGTGAAGGTTGGAGAAAAGAGTCTAACCTGCAAAAAATAGACCTAACCACTATAGTTAAACCTGAGGCTCCTT
TTGACCTGAGTGTCTATCTCGGGAAGGAGCCAATGACTTTGTGGTGTGACATTTAATACATCACACTTGCAAAAGA
AGTATGTAAAAGTTTTAATGACGATGTAGCTTACCGCCAGGAAAAGGATGAAAACAAATGGACGCATGTGAATT
TATCCAGCACAAAGCTGACACTCCTGCAGAGAAAGCTCCAACCGGCAGCAATGTATGAGATTAAAGTTCGATCCA
TCCCTGATCACTATTTTAAAGGCTTCTGGAGTGAATGGAGTCCAAGTTATTACTTCAGAACTCCAGAGATCAATA
ATAGCTCAGGGGAGATGGATCCTATCTTACTAACCATCAGCATTTTGAGTTTTTCTCTGTCGCTCTGTTGGTCA
TCTTGGCCTGTGTGTTATGGAAAAAAGGATTAAGCCTATCGTATGGCCCAGTCTCCCCGATCATAAGAAGACTC
TGGAACATCTTTGTAAGAAACCAAGAAAAAATTTAAATGTGAGTTTCAATCCTGAAAGTTTCTGGACTGCCAGA
TTCATAGGGTGGATGACATTCAAGCTAGAGATGAAGTGAAGGTTTTCTGCAAGATACGTTTCTCAGCAACTAG
AAGAACTGTAGAAGCAGAGGCTTGGAGGGGATGTGCAGAGCCCCAAGTCCCATCTGAGGATGTAGTCATCACTC
CAGAAAGCTTTGGAAGAGATTTCATCCCTCACATGCCTGGCTGGGAATGTGAGTGCATGTGACGCCCTATTCTCT
CCTCTTCCAGGTCCCTAGACTGCAGGGAGAGTGGCAAGAATGGGCCCTCATGTGTACCAGGACCTCCTGCTTAGCC
TTGGGACTACAAACAGCACGCTGCCCCCTCCATTTTCTCTCCAATCTGGAATCCTGACATTGAACCCAGTTGCTC
AGGGTCAGCCCATTTCTTACTTCCCTGGGATCAAAATCAAGAAGAAGCATATGTACCATGTCCAGCTTCTACCAA
ACCAGTGAAGTGTAAAGAAACCCAGACTGAACTTACCGTGAGCGACAAAGATGATTTAAAAGGGAAGTCTAGAGTT
CCTAGTCTCCCTCACAGCACAGAGAAGACAAAATTAGCAAAACCCCACTACACAGTCTGCAAGATTCTGAAACAT
TGCTTTGACCACTCTTCTGAGTTCAGTGGCACTCAACATGAGTCAAGAGCATCCTGCTTCTACCATGTGGATT
GGTCACAAGGTTTAAAGGTGACCAATGATTGAGCTATTTAAAAAAGAGGAAAGAATGAAAGAGTAAAGGAA
ATGATTGAGGAGTGAGGAAGGCAGGAAGAGAGCATGAGAGGAAAGACAGACAGGAAAAATAAAAATGATAGTTGC
CATTATTAGGATTTAATATATATCCAGTGCCTTGTCAAGTGCTCTGCGCACCTTGTCTCACTCCATCCTGACAATA
ATCCTGGGAGGTGTGTGCAATTACTACGACTACTCTCTTTTTTATAGATCATTAATTCAGAACTAAGGAGTTAA
GTAACCTGTCCAAGTTGTTTACACAGTGAAGGGAGGGGCCAAGATATGATGGCTGGGAGTCTAATTGCAGTTCCC
TGAGCCATGTGCCTTTCTTCTTCACTGAGGACTGCCCCATTCTTGAGTGCCAAACGTCACCTAGTAACAGGGTGTGC
CTAGATAATTTATGATCCAACTGAGTCAGTTTGGAAAGTGAAAGGGAACTTACATATAATCCCTCCGGGACAA
TGAGCAAAAACTAGGACTGTCCCAGACAAATGTGAACATACATATCATCACTTAAATTAAATGGCTATGAGAA
AGAAAGAGGGGGAGAAACAGTCTTGCAGGTGTGAAGTCCCATGACCAGCCATGTCAAAGAAGGTAAAGAAGTCA
AGAAAAAGCCATGAAGCCCATTTGATTTTCTGAAAATAGGCTCAAGAGGGAATAAATTAGAACTCACA
ATTTCTCTGTTTGTATACCAAGACAGTGATTCTCTTGTCTGCTACCACCCAACTGCATCCGTCCATGATCTCAGAG
GAACTGTGCTGACCCTGGACATGGGTACGTTTGACGAGTGAGAGGAGGCATGACCCCTCCCATGTGTATAGAC
ACTACCCCAACCTAAATTCATCCCTAAATGTCCCAAGTTCTCCAGCAATAGAGGCTGCCACAACTTCAGGGAG
AAAGAGTTACAAGTACATGCAATGAGTGAAGTACTGTGGCTACATTCTTGAAGATATACGGAAGAGACGTATTA
TTAATGCTTGACATATATCATCTTGCCTTTCTTGGTCTAGACTGACTTCTAATGACTAACTCAAAGTCAAGGCAA
CTGAGTAATGTGAGTCAAGTGCAGCAAAAGTGCAGCAAAACCCATCTCCACAGGCCTCCAACCCCTGGCTGTTTACAGAAC
CACAAAGGGCAGATGCTGCACAGAAAACTAGAGAAGGGGTCATAGGTTTATGTTTTGTTTGGAGATTTGTTGCTA
CTGTTTTTCTGTTTTGAATTTTCTTCTTGTCTGTTTTTACTTTAATTTAGGGGGACTAGGTGTTTCTGATATTT
TAGTTTTCTGTTTGTGTTTTGTGTTTGTGTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT
GGCTTAAAGGACTGGTAAATCAGACCATCTTATTCTTCAGGTGAATGTTTTACTTTCCAAAGTGCTCTCCTCTG
CACCAGCAGTAATAAATACAATGCCATAATCCCTTAGGTTTGCCTAGTGCTTTTGAATTTTCAAAGCACTTCCA
TAAGCATTCCTTCCACCTCCTTGATAGGCATTTATGAAAGCCTGCTACATGTCAATCATACTGTTAGGCACAGG
GGACCTAAAGACACATAAAAGGATGGCATTCTGCCTCATAAATTGCAAAACCTAATGAAAGTGACTGCTTGGTAA
ACAAATTATTATTATATTATAAAATGCTATAAAAGAGCCATATTGAAAGTGCCCTGTTGGAGACAGGGCAAATGC

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FIGURE 1697B

CACAAAAATGATGTAAATTTACATGGAGGAAAAGTAGAATCTGCCTGGTTTGTAGGCAGCAGAAGACATTTTCA
TCAGTGGGCAGGTGTTCTTTACCTTTTGTAGAAATGGGAGTCAAGTCTCAAATAGGAGGCTCCACAAAATCTCAT
GCCAGGTCTCTGATACCTTATTCACAGAAAGTTCTTTGAAGTATTTATTGTTATTTTCTTTGACTTATGGGAAAAC
TGGGACACAGGAAGACAGGTAAATTACCCAACCTCACACGTTAAGTCAGAACTGGGAGCCATAATTTTGTATCCC
TGGTATAAATAGACAATCTCTTGAAGAAATGAAGAGATGACCATAGAAAAACATCGAGATATCTCCAGCTCTAAA
ATCCTTTGTTTCAATGTTGTTTGGCATATGTTATCTTTGGAATTTAGTGTCTGAGCCTCTGTCTGTTACTGTAGT
ATTTAAAATGCATGTATTATAATCATATAATCATAACTGCTGTTAATTCTTGATTATATACCTAGGGACAATGTG
TAATGTAAGATTACTAATTGGTTCTGCCCCAATCTCCTTTCAGATTTTATTAGGAAAAAAAAAATAAACCTCCTGAT
CGGAGACAATGTATTAATCAGAAAGTGTAAGTGGCAGTTCTATATAGCATGAAATGAAAAGACAGCTAATTTGGT
CCAACAAACATGACTGGGTCTAGGGCACCCAGGCTGATTGAGCTGATTTTCTACCAGCCTTTGCCTCTTCCTTCA
ATGTGGTTTTCCATGGGAATTTGCTTCAGAAAAGCCAAGTATGGGCTGTTTCAGAGGTGCACACCTGCATTTTCTTA
GCTCTTCTAGAGGGGGCTAAGAGACTTGGTACGGGCCAGGAAGAATATGTGGCAGAGCTCCTGGAAATGATGCAGA
TTAGGTGGCATTGTTTGTGAGCTCTGTGGTTTATTGTTGGGACTATTCTTTAAATATCCATTGTTCACTACAGTG
AAGATCTCTGATTTAACCGTGACTATCCACATGCATTACAAACATTTTCGAGAGCTGCTTAGTATATAAGCGTA
CAATGTATGTAATAACCATCTCATATTTAATTAAATGGTATAGAAGAAC

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FIGURE 1698

MHDVAYRQEKDENKWITHVNLSSTKLTLQRLQPAAMYEIKVRSIPDHYFKGFWSEWSPSYFRTPEINNSSGEM
CPILLTISILSFFSVALLVILACVLWKKRIKPIVWPSPDHKKLEHLCKKPRKNLNVSFNPESFLDCQIHRVDD
IQARDEVEGFLODTFPQOLEESEKQRLGGDVQSPNCPSEDVVITPESFGRDSSLTCLAGNVSACDAPILSSSRSL
DCRESGKNGPHVYQDLLLLSLGTTNSTLPPFSLQSGILTLPVAQGQPILTSLGSNQEEAYVTMSSFYQNQ

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FIGURE 1699

TTCTCTTCTAGTGATGTGGCACGGTGTCCGTGAGCTTGTGACTGCAGCGATACGCTGCXTTGTGGCGTGTGGGCC
AGGTGGCGACTACAGCAGGGACTGGCTGCCAACCCTCCGGCTACGGGCCCCCTTACCGAGCTCCCAGACTGGTCA
TATGCGGGGGTATGATCCTGCTTAATTGGATAATTGGTGACTGAGGAAGATGGTGAAGATTTTTTCTACTTGTTA
TTTACTATGGCCGCCCTGCTCCCCCAATGAAAGGCCAGCTTCGAAGAAAAGCTGAAAGGGAGACGTTTGCAGTGA
GTGAGACGAGTTGTACTGCTGTCACAGGAAATGGACGCTGGATTACAAGCATGGCAGCTCAGGCAGCAGAAGTTG
CAGGAAGAACAAAGGAAGCAGGAAAATGCTCTTAAACCCAAAGGGGCTTCACTGAAGAGCCCCACTTCCAAGTCAA
TAAAAAGCAACTCCTGCCTCCCTTCCTC

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FIGURE 1700

CGGGCGAGAAGGGCAGACGGGACATGCAGCCTCTTCCGCCTGAGCCCCGGAAGTGATGTGGCTGCGGCATCGCGG
CCTCGCTATGTCTGCCATTTTCAATTTTCAGAGTCTATTGACTGTAATCTTGCTGCTTATATGTACCTGTGCTTA
TATTCGATCCTTGGCACCCAGCCTCCTGGACAGAAATAAACTGGATTGTTGGGTATATTTTGGAAAGTGTGCCAG
AATTGGTGAACGGAAGAGTCCTTATGTTGCAGTATGCTGTATAGTAATGGCCTTCAGCATCCTCTTCATACAGTA
GCTGGGGAAAATGCCAGAATGTAGTTGCCATCAGATTGATTGTGAACAAGGACTGACTGCAGAAAATAATGGAA
AGGATGTTTAACTCTTTTATCTCCGAACATTGAATGAGATAAAATTTCCAGATGCTGTTCTCTATTTTAATGTTAT
TGGACCAATGTTCTGTATAAACAATTAAGATGTAACCATTTAATAGTCTGTAACAATCAACCTCAGTACTGTCAC
TACAATATTACATTCTGCAAATGTTATTCTGTTGTATCAGATACAAAATTTTAGTGAGGTATCTCTAAGGCACAT
AGTAGAAAACAAAATTGGTTAATTACTCAAGTTCCTTTCAGTGTGATTGGAAATGATTTAATCTTTATAGAATG
AGAACCTTTTTTGGACTAGCTTTTTTATTAATAATGGCTCAATTTGTGTTGATAAGGATTGCATTAATATTTAATA
GTGCTTGCTTTTCCTCTGGGCACACCATTTTGATCATTAAACCAGAGTACCTCTACTCTTAGCAAACCTCTAGTTTA
TGACAAGTATTTAAAATATTTAAAACAAGCTTATGCAGTTCCTTAAGGACGAAGGTAAATGAGATGTAACCTAAAA
ATAGTATTGGGAAAATGTTGATAGTTAACATTAGTGGATTTAGACTAGCCAAATGACATAGTAGGCTCTGAAACA
TCTTGTCAAGTATATGATTTTGTGCATGAATTTTGCTGGAAAGCTGTCTTCTCTGAAAAACACAACGTTCTT
AGAATGAAAAGAACAATTATAAAATAAAAAAAAAAATTTAAAAAAACTGGGCGGGGG

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FIGURE 1701

MSAIFNFQSLTIVILLICTCAYIRSLAPSLDRNKTGLLGIFWKCARI GERKSPYVAVCCIVMAFSILFIQ

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FIGURE 1702

GGGAGAACGCGAGTGTAGTTAACATGGCTTGGTGTGTGGCCACAGCTGACCCGGCGCATACCTCCCGTCCTCTC
TTTACAGGGCTGGCGGTGTCTCGGGGCTCGGCTGGCCATGCCTGGAGCGCGGGGTTTGACTGGGCCCGCGTGT
GTAGTGACCGGGAGGCGCTGCCGCTCTGGGCAGACGGTTCCGGGAGCCGCACGGTCCCCCTCTCCTTCCCCATCCT
CTCCCCCTCCCCCTCTCCGGGTTCCCCCACCCACAGGAGCCTTGGGCCGACCACTCCCCCGATGGCCTCAGCCACGG
AGGACCCCGTTCTGGAGCGTTATTTCAAAGGCCACAAAGCTGCGATCACCTCCTTGGACCTCAGCCCCAACGGCA
AGCAACTTGCTACTGCTTCTTGGGATACCTTTCTCATGCTATGGAATTTCAAGCCACATGCTAGAGCTTACAGAT
ATGTGGGTACACAAGGATGTTGTAACCAGCGTGCAGTTTTCTCCACATGGAACTTATTGGCGTCTGCCTCACGAG
ACAGAACCGTGAGACTCTGGATTCTTGATAAGAGAGGAAAATTCTCAGAATTTAAAGCTCATAACAGCTCCAGTTC
GAAGTGTAGACTTTTCAGCTGATGGCCAGTTTTCTAGCTACAGCTTCTGAAGACAAATCCATAAAAGTATGGAGCA
TGTATCGCCAGCGCTTCCTGTATTCTTGTATCGACATACACACTGGGTACGCTGTGCCAAATTTTACCCCGATG
GAAGACTAATTGTGTCATGTAGTGAGGATAAACTATTAAATTTGGGATACCACAAATAAGCAATGTGTTAATA
ACTTCTCAGATTTCTGTTGGATTTGCAAATTTTGTGGACTTTAACCCTAGTGGTACATGCATAGCTTCAGCAGGTT
CTGATCAAACCTGTGAAAGTCTGGGATGTAAGAGTGAACAAATTACTACAGCATTACCAAGTTCACAGCGGTGGAG
TTAATTGCATATCATTCCATCCTTCGGGTAACCTATCTCATCACAGCTTCTTCAGATGGTACCCTTAAGATTCTGG
ACCTCTTAGAAGGAAGGCTCATCTATACACTTCAAGGACATACGGGACCTGTCTTTACTGTTTCATTTTCAAAG
GTGGAGAGCTATTTGCATCAGGAGGTGCAGACACACAGGTCTTATTATGGAGGACTAAGTTTATGAATTGCATT
GTAAGGTCTTACCAAAAGAAATCTCAAAAGATTACATTTTGATTACCAACCACATCTTCTTGATATCTACCCAA
GAACACCACATCCCCATGAGGAAAAAGTTGAGACTGTAGAAGATTTTTTCTTCACTTTTGAATTAATCCAAA
GCTTGAGGTAAATCGATTTGCAGATCTCTACTCCCCCTGTTATGGATATCCTTTCTTTGATTCTACCACAACAAC
AGAAACCAGTGGTAGGACTCTGCCAGACAAGGGTGAAGAGGCCTGTGGATATTTCTTGAACCCCTTCTTAATGTC
ACCAGAATGTTTGGCAACAACCACGAAAAAGAAAACAGAAGACATGAGTGACCTCCCCCTGTGAAAGTCAAAGGAG
CATACCTCTCGCTGTGACTGATGCTTTAGAGCATATTATGGAACAACCTCAATGTTTGGACACAGACTGTTTCAAT
CTTGGAGCAGCGACTGACTTTGACAGAGGATAAGCTGAAAGACTGCCTTGAAAATCAGCAAAAGCTTTTCAGTGC
TGTCCAACAGAAAAGCTGAATAAAAAATTCATTTTCATTTGTTGGGCAGAGGCCCAATAAATGAACAAATGTACA
TACACTCAGGAAGGTAGTACAAGATACTCCATACAACACAACCATGTGCTATTTATCATGGCATTCTTAAAGG
GTGAGCAACAGAACAAAAGGCAGAAAAGGCATACCTAAGGACTAATTTAAACACATATCAATGTGAAGGACTAAT
TTAAATTACTATCATTTATGATTGCAGTAATAAAGTGATAAGCATTCAAGCAACTCTGTATTTCCCCATATTAT
TTTAAATGTCCATTTTCATTTATAGGCCAAATCCTGCCAGGAAAGTAACCAGATCTCTGGATTCACTGTTAAGT
CATTTCAGATTGACCATATTTCAGACAGTCATGGGGTGAAATAATTCACTTACCTCCAAAATAGCATCCTATATGC
CAATAATGAGTTATTGATCTGACTAGTTGTATGTCTTTCTGTTCAAAAATAGAAATTATCCTTTCTTACTAATGCC
TTGAAAGAATGAACAAATAAAATTTCCAGACCACAGAATTTCCACAGCAAGAATACACTTATTTTAATTAACAA
TAGCACAGATATAGCATAGGGCAGTGGGTTTTTTAGTTAATTTATGGCGTACTTTGTTTATCCATTGGCCAACT
GAAGGAAATGAACTCACCTATCTTTCTATCACAGATGAATGTGCTAGATGAATGATTTGGGTGTATCTGATCA
TGGTTCACAAAATTATGTTAGTGTGTTTTTCAAGTATGCTAAAAAGTCAGAGTGATACAAAAGTGATATTTAAAA
TATACACACATGTATGTACACATGCTTCAGAAATATTGTTGCTTAGGGTGATTGGGCAGCTAAATAGTAAGTAC
TTTTTAAATTTTTTGCATCATCATCTTCTTATTTAATGAATTGTGATTTAAACAAAATGAAAATAAGCCAGGTA
TTCTAAAAGATCCTGGATACAAATTAAGAATTTTGCTTTATTTTAAACCAATTGAGATTAAATTGAAGAAAAGC
AAGCAAATTAATTTAGCTTGATTATCAACCTGTATCAAGAACAAAATGGGAGGAGGTGTCCACATTTATGGTG
TGTATAGGTAACATGGGGAAAATGCTATTCTGTGTTTTGGAAAAGAAGAAATAGTGCCGTCTATTTATTTCTAT
ATTTAGAAATTTTTCTCAAAGAAATTTCAATTGTATCTATGAGATGGGTTTCTAAGTATCTTATTGTGTGTTATA
AGTGCCTTTTAAATATCATACTAAGTGTGAGCTTCTGGACATTTTCAAGAGCTTACAAAACTAAGTGGCATTGTA
TTTTTATAACCCCATGAGAAGACTAAGTAAGAATGAAATGTCCTATCAATTTTATTTTGTGATGCTTCAAACA
ATAAAGACATTTCTGCTTTAAAGACAAACAAAAA

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FIGURE 1703

MASATEDPVLERYFKGHKAAITSLDLSPNGKQLATASWDTFLMLWNFKPHARAYRYVGHKDVVTSVQFSPHGNLL
ASASRDRTVRLWIPDKRGKFSEFKAHTAPVRSVDFSADGQFLATASEDKSIKVWSMYRQRFLYSLYRHTHWVRCA
KFSPDGRLIVSCSEDKTIKIWDTTNKQCVNNFSDFVGFANFVDFNPSGTCIASAGSDQTVKVWDVRVNKLLQHYQ
VHSGGVNCISFHPSGNYLITASSDGTKILDLLLEGRLIYTLQGHTGPVFTVSFSKGGELFASGGADTQVLLWRTN
FDELHCKGLTKRNLKRLHFDSPPHLLDIYPRTPHPHEEKVETVEDFFLHLLRLIQSLR

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FIGURE 1704

GGAATTCGGCACGAGCCCGATTCCGCGCCCGCCATGCGCCGACAAAATGGACATGTCTCTGGACGACATCATTAAA
CTGAACCGGAGCCAGCGAGGCGGCGGGCGGGGGCCGCGGCCGGGCGGCTCCAGGGCCGGCCGCCGCGGTGGG
GCGCAGGCCCGCCGCGCGAGTGAATCGAGGCGGCGGGCCCATCCGGAACCGGCCGGCCATCGCCCCGCGGCGCGGC
GGCGGAGGCGGCAGGAACCGACCGGCGCCCTACAGCAGGCCAAAACAACCTCCCCGACAAGTGGCAGCACGATCTT
TACACAGTGGCTTCGCGGGTGGTGCCGGCGTGGAGACAGGTGGGAAACTGCTGGTGTCCAATCTGGATTTTGGA
TAGACGCCGATATTCAGGAACTCTTTGCTGAATTTGGAACGCTGAAGAAGGCGGCTGTGCACTATGATCGC
TTCGTCGAGCTTAGGAACAGCAAACGTGCACCTTTGAGCGGAAGGCAGATGCCCTGAAGGCCATGAAGCAGTAC
AAGGGCTTCCCTCTGGATGGCCGCCCATGAACATTCAGCTTGTACGTCACAGATTGACGCACAGCGGAGGCCT
GAGCAGAGCGTAAACAGAGGTGGCATGACTAGAAACCGTGGCGCTGGAGGTTTGGTGGTGGTGGAGGCACCCGG
AAGCACCCGCGGAGGCGCCCGTGAAGAGGCAGAGGTGCCGGCAGGAATCAAAGCAGCAGCTTCGGCAGAG
TGGATGCCCAGCTGGACGCCCTATAATGCGAGAATGGACACCAGTTAAACAGACCAGCAAATCCGCGTGCGG
AAGGACCCAGGCGTCTCCTCTTGCTCCCTGGTTGGGGGGCGGTGGCTGGGGCTGTGCGCCCAATGATGGATTT
GTTCTTTTATGTTTTAAATAGGATTTAAAACTCATGTAAAGGTTTTTTTTTTTTTTTTTTTTTTTTTAAAT
TCTGAAACAGACCTGTTTTGTACCGAGTTATTTTGGGATAAATTTTACTGGTTGCTGTTGTGGAGAAGGTGGCG
TTTCCACCTTTTCCATAATAAAATAGAAATGTGTGTAA

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FIGURE 1705

MADKMDMSLDDI IKLNRSQRGGRGGGRGRAGSRAGRRGGAQAAARVNRGGGP I RNRPAIARGAAGGGGRNRPAPY
SRPKQLPDKWQHDLFDSGFGGGAGVETGGKLLVSNLDFGVSDADIQELFAEFGTLKKA AVHYDRSGRSLGTANVH
FERKADALKAMKQYNGFPLDGRPMNIQLVTSQIDAQRRPAQSVNRGGMTRNRGAGGFGGGGGTRRGTRGGARGRG
RGAGRNSKQQLSAEELDAQLDAYNARMDTS

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FIGURE 1707

MGPQRRRLSPAGAALLWGFLLQLTAAQEAILHASGNGTTKDYCMLYNPYWTALPSTLENATSISLMNLTSTPLCNL
SDIPPVGIKSKAVVVPWGSCHFLEKARIAQKGGAEAMLVVNNSVLFPPSGNRSEFPDVKILIAFISYKDFRDMNQ
TLGDNITVKMYSWPNFDTMVVIFVIAVFTVALGGYWSGLVELENLKAVTTEDREMRKKKEEYLTFSPLTVVI
FVVICCVMMVLLYFFYKWL VYVMIAIFCIASAMSLYNCLAALIHKIPYGQCTIACRGKNMEVRLIFLSGLCIAVA
VWAVFRNEDRWAWILQDILGIAFCLNLIKTLKLPNFKSCVILLGLLLLLYDVFFVFITPFI TNKGESIMVELAAG
PFGNNEKLPVVIRVPKLIYFSVMSVCLMPVSILGFGDIIVPGLLIAYCRRFDVQTGSSYIYYVSSTVAYAIGMIL
TFVVLVLMKKGQPALLYLVPCTLITASVVAWRRKEMKKFWKGNSYQMDHLDCATNEENPVISGEQIVQQ

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FIGURE 1708A

GAATTCGGCACGAGTCATGGCGGCGGGAGCGCGGCTTCCCAGGCCCGCGCTCCGCAGGGCTGCTGGCGTTGCTG
CTGTTGAGAGGCGGCGGCGGCGGCGCAGGCGGGCGGGAAGGATGGTGTCTTCTGCGACTGGAGCGGCAGGTGCGGA
CCGGGAGCCGGACCGAGGTTTGGCAGAAGCAACGTGTGCTCGGGAGCAACCGGCGCGGGTGCCACTGAGGCAGCG
GAGGGAGGCAGGATCGACTGACGGGCGAACGGACGGACGGACGGAAGGCGACTCGAGGGCCGGCCCCGGAGCCGC
GCCGTGGGCGAGATGCGGGGCGCGCGGCGTTCGGGCGGAGGCTGCTGCTGCTGCTGCTGGTCCCTCCTGATCGCC
GGCAGTGCTGGGGCCCGCCACTTCCGCAAACAGGTGCAGGGGAGGCGCCACCTGCTGCAGAAGTTTCTCATCT
TTTGTGATCCTGTGTGTGTGTCAGTTTAATAATATTAATAGTGTTAATTGCAAACGTGTATCCTGCTGTAAGGAC
CCAGAAATAGACTTTAAGGAATTTGAAGATAATTTTGATGATGAGATAGATTTACACCACCAGCAGAAGACACT
CCCTCTGTTTCAGTCCCCAGCAGAGGTCTTCACACTTTTTCAGTACCAAATATTTCACTCCAGCTCCCTCGCAATTC
CAGCCTTCTGTAGAGGGATTGAAGTCTCAAGTTGCCCGCCACAGTCTAAACTACATACAGGAAATTGGAAATGGC
TGGTTTGGAAAGGTTCTCTTGGGAGAGATTTACACGGGCACTAGCGTAGCAAGAGTCACTCGTGAAGGAGTTAAAA
GCAAGTGCCAAACCAAAGGAACAAGATACTTTTTTGAAAAATGGAGAACCTTACTACATTCTTCAGCATCCAAAT
ATTCTTCAGTGTTGGACAGTGCCTAGAACGATTCCCTACCTCCTGGTGTGAGTTCTGTGACTTGGGTGAC
CTGAAGGCGTATCTGCGCAGCGAGCAGGAGCACATGCGGGGGGACTCACAGACCATGCTGCTGCAGAGGATGGCG
TGCGAGGTGCGCCGCGGGGCTGGCCGCCATGCACAAGCTGCACTTCTGTCACAGTGATTTAGCCCTGCGGAATTGT
TTTCTCACCTCCGACTTAAATGTGAAAGTGGGAGATTACGGAATAGGATTTCAGCAGGTACAAGGAGGATTATATT
GAAACAGATGATAAAAAAGTTTTCCCTCTGCGATGGACTGCTCCAGAATTAGTAACCAGCTTTCAAGACAGACTG
CTAACTGCAGATCAGACTAAGTATAGTAATATCTGGTCTCTGGGTGTGACACTTTGGGAGCTTTTTGACAATGCC
GCACAGCCGTATTCAAACCTTTCCAACCTTAGATGTCTCAACCAAGTCATTAGAGAGAGAGACACAAAACCTCCCG
AAGCCCCAGCTGGAGCAGCCCTACTCTGATAGATGGTATGAAGTCTTACAGTTCTGTTGGCTGTACCCAGAAAAAG
AGACCCGCGGCTGAAGATGTGCACAGGCTGCTGACTTACCTGCGGCTGCAGAGCCAGCGGGACTCAGAGGTGAC
TTTGAACAGCAGTGGAACGCTCTGAAGCCGAACACAAACAGCAGAGACTCCTCCAACAATGCTGCATTCCCAATT
CTCGACCACCTTTGCCAGGGACCGGCTGGGTGCTGAAATGGAGGAAGTCTCACCGTGACCGAAACCAGCCAGGGC
CTGAGCTTCGAGTATGTCTGGGAGGCCGCTAAGCACGACCACCTTTGACGAGCGCAGCCGGGGCCACCTGGACGAA
GGCTTGTCTACACGAGCATCTTCTATCCGGTTGAAGTTTTTGAGAGTTCGCTTTCAGATCCTGGGCCCCGAAAG
CAAGATGACAGCGGCCAGGATGTCCCCCTGAGGGTCCCTGGAGTGGTTCTGTTTTGATGCCACAACCTTTCT
GTTGGAAGCGACTATTATATCCAGTTAGAAGAAAAAGTGGTAGTAACCTGGAGCTTGATTACCCACCAGCGCTG
CTCACAACCGACATGGATAATCCAGAAAGGACTGGCCCTGAACTGTCCAGCTCACGGCGCTCAGGAGCGTTGAA
CTTGAGGAGTCCAGTACAGATGAGGACTTCTTCCAAAGCAGTACAGACCCCAAAGACTCTAGCTTACCAGGGGAC
TTACACGTGACCAGTGGCCCCGAGAGCCCTTTCAACAATATATTTAATGATGTGGACAAATCGGAAGATTTGCC
AGTCACCAAAAAATATTGACTTAATGGAATTAACCGGAGTTCAAGCCGACTTTAAACCTGCCACTTTAAGTTCC
AGTTTGGATAACCCCAAAGAGTCAGTCATAACAGGCCACTTTGAGAAAAGAAAAGCCCCGTAAGATTTTTGACAGT
GAGCCTCTCTGCCTATCAGATAATCTTATGCACCAAGATAATTTTGATCCATTGAATGTTCAAGAATTGTCAGAA
AACTTTTTATTCTTCAAGAGAAAACTTACTAAAAGGCTCATTGTCCAGCAAAGAACACATAAATGATCTTCAG
ACAGAACTTAAGAATGCTGGTTTTACTGAAGCTATGTTAGAAACGTCATGTAGAACTCTTTAGATACTGAGCTT
CAGTTTGTGTAATAAGCCAGGCTTGCTTTGTTGCAGGAAAACGTAAGCACAAAGGGTGACGATACAGATGTC
ATGCTCACAGGTGACACTTTGAGCACCTCATTGCAGTCTTCCCCGGAAGTGCAGGTACCTCCTACCTCCTTCGAA
ACAGAAGAAACGCCCCGTGGGTACCCCCAGACTCACTCCCAACACAGGGAGAAACCCAGCCACGTGTTTAGAT
GTTATTGTCCCGAGGACTGTCTCCACCAGGACATCAGTCCAGACGCTGTGACTGTCCCGGTTGAAATTCTCTCA
ACTGATGCCAGAACCCACAGCCTGGATAACAGGTCCCAGGACTCTCCTGGCGAGAGTGAGGAGACCCTGCGACTC
ACCGAAAGTGACTCTGTTCTTGCTGATGACATCCTTGCCAGCAGGGTGAGTGTAGGGAGTAGTCTCCCGGAACTG
GGACAGGAATTGCACAATAAACCATTTTCGGAAGACCATCACAGTCATCGCCGGCTAGAGAAAACTTAGAGGCT
GTGGAGACTTTAATCAGCTCAATTCTAAAGACGCAGCAAAAGAAGCAGGCTTGGTGTCTGCCCTCTCCTCGGAC
TCAACCAGTCAGGACAGCCTCCTGGAGGACAGCTTGTGACACCCTTCCAGCCTCTGAGCCGTCCCTGGAAACC
CCGGACTCTCTGGAGTCAGTGGATGTCCACGAAGCGCTACTGGACTCTTTAGGATCTCACACTCCCCAGAACTA
GTGCCCCCGATAAGCCGGCAGACAGTGGCTACGAAACAGAGAACTTGAGTCTCCCGAGTGGAACCTTGCATCCC
GCTCCCGAGGGCACCGCAGACTCAGAACAGCCACCACGGGCGATGGCGGCCACAGCGGTCTGCCTCCCAACCCG
GTCATTGTCATCTCAGATGCCGGCGATGGTCACAGAGGCACAGAAGTGACCCCTGAGACGTTACAGCTGGCTCC

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FIGURE 1708B

CAGGGTTCATACCGAGACTCTGCGTACTTCTCAGACAATGACTCTGAGCCCGAGAAAAGGTCTGAGGAGGTCCCC
GGAACCTCCCCATCCGCCTTGGTGTGGTACAGGAGCAGCCCCCTACCCGAGCCAGTCTCCCCGAGCAAAGTCCCT
GCTGCCCAGGATAGCTGCTGGAAGCCAGAAAGAGCCAGCCAGATGAAAGTTGTCTGTCTGCTTTGCACAACTCC
AGTGACCTGGAATTAAGAGCCACGCCGGAGCCAGCACAGACTGGTGTTCCTCCAGCAGGTGCATCCCACGGAAGAC
GAGGCCAGCAGTCCCTGGAGTGTGCTGAATGCAGAACTTAGCAGCGCGATGACTTCGAGACACAGGACGATCGC
CCCTGCACCCTCGCTTCCACGGGGACCAACACGAACGAACCTTGCCTACACCAATTCTGCGCTGGACAAGTCC
CTGTCCAGCCACTCCGAGGGCCCCGAAGTTGAAGGAGCCGGACATCGAAGGGAAGTACCTGGGGAAACTCGGGGTG
TCAGGGATGCTCGACCTCTCAGAGGACGGGATGGATGCAGACGAGGAGGACGAAAACAGCGACGACTCGGACGAG
GACCTGCGGGCCTTCAACCTGCATAGCCTCAGCTCCGAGTCGGAGGACGAGACCGAGCACCCTGCCCCATCATC
CTCAGCAACGAGGACGGAAGGCACCTGCGGAGTCTGTTGAAGCCACAGCGGCCAATGCCCCGACCCACTGCCC
GAGGACTGGAAGAAGGAAAAGAAGGCAGTCACGTTTTTCGATGATGTCACAGTCTACCTGTTTGACCAGGAGACC
CCAACCAAAGAGCTGGGGCCCTGTGGAGGAGAGGCGTGCGGCCCCGACCTGAGCGGCCAGCCCCAGCCTCAGGC
TCTCCCTACCTGAGCAGGTGCATCAACTCCGAAAGCTCCACCGACGAAGAAGGTGGTGGCTTTGAGTGGGATGAT
GACTTCTCCCCAGATCCTTTTATGTCAAAGACAACAAGTAACCTGCTCAGCTCCAAGCCTTCTCTCAAACATCC
AAGTACTTTTCTCCGCCGCCACCGGCCGGAGCACGGAGCAGAGCTGGCCGCACTCGGCGCCTTACTCCCGGTTT
TCCATCTCTCCCGCCAACATTGCCAGCTTTTCCCTCACACACCTGACCGACTCGGACATCGAGCAGGGCGGAAGC
AGCGAAGACGGAGAAAAGGACTAGGTGGCTGCCAACGCGCACGCTCGGGTCCGAGGCTGCTCCCTGGAGCGGCG
CCCCTGCGCCCTCAGCCCGAGCAGCGACATCCACTCGCCATTGCTGACATGAGATTGGGAGGAAGAATCCAGAG
GTGAAGAGGGAGACGGCTCTTAGCTGCGTTCAAGGCGGGGCCCTCGGGAGCCAGGTGCAGAGCGAGGCCGTGTC
CAGGAGCCGGCGTCCCTCAGTGCCCCGTGCACCCGCGGCCGCGCCTCCAGGCAGTGCTCATGCGCTGGCCGTC
GGGGGAGGCAGGGGCACAGCCTCCATGTGCGCGCGCGTGTGGAGCTGTGTGCACCGCATGTGTGCTTTCCACAGG
GGCGTCTCTGCGTCCACGCTGCACATCCCGGCGCACGTGTGGGCACCACAGAGGACACGTGAGGGGAATGGTCA
CCAGTGAGCCATATTTATTATTTCTAGAGAAATCACGAACGCTTTCTGTAATTGCACTGTGGATAAATGTTCCG
AGAGTCTCCATTGTTGTACAGGATCTTCAGTTATTCGAGGGGAATGAGGCAGGTCAAGCCGATGCTAGCCACTAG
TTTGATTTTTTTTCTGTTTTATAGTTTGCCTGCATGGTACTTGTGAAGCTTAAATATTTGAGTGTCTACTGT
GTCTAGGATTGTTGGGATTGTACATATGGTACTCTTTCATAAATGATAAATGATTCTGAATGTAGTGTTTTATG
TTCATATAGGAAATATTTTCATTGAGTCCAAAATACCACTGTTTTGTTGATGGACTTGAATGCATTTTTGTCTCT
TCTTGATGAAGCGCTTTGCCGCAGCAAATGAGGCTTCTCTCTGAGGAGCTGAGAGGTCTTGACGCTCTCCTTG
TCATTCTCCACCCACATCCCATTTTTTAAAGCCCTTTTGGTAAAAACCAACAGGTTGTGGCCGACAGCCTCAG
ATGGACCCGGCCCATCCCTGGGGACGTGCTGGCGTGGCAGGTCCAGAGAGCTGCACCTGCACGGGGCACCGCAC
CGCTTCCCTCCGCGCAGCTCTTCTGCCTGGTTTTTCGGAGGCCAGGCTGCTGGGAGGCTTCCGTGTTCTGTCTCAGT
CCTTCTTCAAGAAGCCGGGAACTCAGGCAGACTCATCTCCGAGAGCATACCAGCCGTGGGGGACCGTTTCGAC
TTGATGATGTGTGCACACTTCAGGTGGTGGGGACTTGAGCTTTAAAAAACCTCCACAGCCGAATCTTCTCCTCC
GAGCCACTCCACGTCACGTCCAGCTGGGCCTGGCCAGTCTGTGGTTATCCATGTGGGATGAGATAACACCACATC
CTGCAGCTGTGAAGGGGGATGGACAAGGGACGACGCCGACGGCAGAGCATCAGCAGCCGACACATAGTTCGGGT
CGGGGCCTTGGGTGGTCTGTCATGGCCCGGACTCATCTCACGGACCCTCCGTTCTGCATTAAGCCCCAGGTCTT
CTTCTGGCTTTGAAAGGGCCCCGAGTGTCTCCAGTGTAGCTTCGTACATCGTACAGAGCCCTGTGGTTCATGGGC
GACCTCACACCTCCCTCCCTGAGTCTGCTCTGACATAAGGAAGTCCCTCGGTGGCTGGTGCAGCGCGGCTGTGCT
GTGCTGGGGAGGCAGCCGTTCCCTCGGGGGTCCCTGGGCCTGCAGTCCCTCATACTACCCCTTCACCCAACATA
TTTTCCGGTGTGATATGTTTCCAGACTCCAGCGCAACCTGGGGTGTCTCTCCAGACCCGTGCAGGGGCCGCTGG
GGTACACGGAAGGAAGTTGAGTCTAGTGCAAAATGCAGGCGGACGTTGCCAGAGAGTGCGCAGCAAATGACCTT
CATTGCCAGTTCCACCCTACTCCTCTCATTTTTTATACTAAGCAATAACTTTCAAAGCAAGAAGTTTCAGGATGG
AGAGAGTCCCTCCTGTGTAGGCATGGGGTGGACGCGGTGCCACCTGGGCTATGTGGGGAGCACCACTGTCTCG
GGATGCGCGAATTTTTTTTTTTTTTAAATTAACAGGGCATTAGAAGATGATTTTGCCAAAATTGTCATGACTCTG
AATTCTTGCTGTGGGGACTTCCCTGAGTTTTCTCAGTTTTTACATCTAAGATTAGTCTTGGCTGAAGAGAAATGAG
ACGTGATTATACTACTTTTTCAATTGCAGGTTTAAGGAGTTCAGATTTAATGACCAAAGTCATACAGATCATGGA
ATCTGTGCTGCTTATACAGTGTGACGCTCGAGTACATTTATTAACCTTTTGGGGCTGTGAGTTTTCCACTAGG
ATTAAGATTTTGGCCGGGCGCGGTGGCTCACGCCTGCAATCCCAACACATTGGGGGGTTCGAGGCGGACGGATCAC

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FIGURE 1708C

TTTGAGCCCAGGAGTTCAAGACCAGCCTGGGCAACATGGCGAAACCTCGTCTCTACTAAAAATACAAAATATATA
TATATATATATACTAGCTGGGGCACATAGTGGTGTGCACCTGTAGTCCCAGCTGCTTGGGAGGCTGAGGTGGGAG
GATGGCTAGAGCCCAGGAGATGGGTGTTGCAGTGAGCTGAGACCATGCCACTGTACTCTAGCCTGGGTAACAGCC
AGACCCTGTCTCAAAAAAAAAAACAATTTTTTTCATAACATAATTCCCATTTTTATTTATTTTGAGTCACTCATAA
TAAATTGCCAAAAAAGCATTTTATACATTGAGTTGGGGGGTAGTGGATCTTAGTGTGGTGTTCATGGAGGGGGC
TTTATATTTATAATCAACACGTGGGTTAACATGTTTTTTTTGAAATCCAAGCAATACACAGGAAATTTAAGT
ATAAAAAATTGCAGCCCATTTTTGAAATGTCAGCATGTGCTGTGTTCAGTTCAGGTTTTGTGTTTGTGTTTTG
TTATTTTTTAACTAATAAGTTGGTTATCAGTGGTGGGTTTTCAAATGTACTTGTCTAATAAGTTGTACAATGA
AATCAATCTGAATTAGTCCTGTTTTGGTGGAGTTTGTACATTTTAAATCCTATAACAAAAATAATCTAGTTT
AATCAATCTGAATTAGTCCTGTTTTGGTGGAGTTTGTACATTTTAAATCCTATAACAAAAATAATCTAGTTT
TTCTTACTAGCTAGATGCGAATTTGTCTTTTTGAATGACCCGTGCAATAAGCCAGAAAGGGCAACCCAGA
AAGTGCTCCCCACATCCTTCTGAGACTTGGCCTGTGTGTGTGGACGAGAAGCCATTCACCGTAAGGGTGCAGA
AAGTCGACCAAGCCGAATTGCAAACAACGTTTCGTTCTATTTTTAAATGTACAGGTTTCGATCGTTTCTATAGAAA
TGGGTTTATCTAAGAAAAGTCTTGGTTTGTCTTGTCTGTGTAAGGCCCTTTCCAAACCCCTCCTTTTATTCTG
TTCCCGAAATAAGGTATTTGTAGAGTTAAGGACCTACTGCATGCCTGTCCCCAGGGCCCCGGTGGAAGGAAGGC
AGCGCCTGCTCTTCCTTGACTCAGCCCATCATCTGAAAATTCAGAAGTGAACCAAGGGTTAGACGCCAGAGGTTG
GGCTTCTGTTAGAGTGGCTTCAAACATGAGCCTTATGGGAAGTAGCCTTAAAAAAGAATGGGTATACGCAGTG
ACTTCCGATGGAAATCTCCAAAACAATATTCCTAAGTAGCAATGGGGTTGGCTCAAGTCTTTATTAACAAAGAAC
ATTCTCTTTCATCTATAAAGAAATTCCTAAAGATGCATTGACAGTGTGAATTACCAACAGCCTGTGAAGATCAG
TTTGACCGGTGTGGACACGTGCTGGTTAAGCACTCAGGCCTACGTGGGCCGAGCGGGATCTTGATCATGGGGCTG
GTGTATGGATCCACCGTCGGATTCCGTCTGCAGAGGAGGACGTAGGGGGCCGTACACCCACCAGGCCTCCCTGC
TGTCCTTTAACACAGGCAGAAAGAGGTTTCATGGCAATATAATAGTCAATGAACCTTCAGTTTAAATTGTGTACATT
TTTAAATTGTAAGATTTTTACTGTATATTGATGCATAGTGTGATTCAATAAATTGCTTGTAATTTAAAACTATT
TAATATTCAAAATAAATATAGTTATATATTTATAAAAAAAAAAAAAAAAAAACTCGAG

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FIGURE 1709

MPGPPALRRRLLLLLLVLLIAGSAGAAPLPQTGAGEAPPAAEVSSSFVILCVCSLIILIVLIANCVSCCKDPEID
FKEFEDNFDDEIDFTPPAEDTPSVQSPAIEVFTLSVPNISLPAPSQFQPSVEGLKSQVARHSLNYIQEIGNGWFGK
VLLGEIYTGTSVARVIVKELKASANPKEQDTFLKNGEPYYILQHPNQLQCVGQCVEAIPYLLVFEFCDLGDLKAY
LRSEQEHMRGDSQTMLLQRMACEVAAGLAAMHKLHFLHSDALRNCFLTSDLVNVKVG DYGIGFSRYKEDIETDD
KKVFPLRWTAPELVTSFQDRLLTADQTKYSNIWSLGVTLWELFDNAAQPYNSNLSDVLNQVIRERDTKLKPKQL
EQPYSDRWYEV LQFCWLSPEKRPAEDVHRLTYLRQSQRDSEVDFEQOWNALKPNTNSRDSSNNAFPILDHF
ARDRLGREMEEVLTVTETSQGLSFEYVWEAAKHDFDERSRGHLDEGLSYTSIFYPVEVFESSLSDPGPGKQDDS
GQDVPLRVPGVVPVFDHNL SVGSDYIIQLEEKSGSNLELDYPPALLTTMDNPFRTGPELSQLTALRSVELEES
STDEDFQSSDTPKDSSLPGDLHVTSGPESPENNIFNDVDKSEDLPSHQKIFDLME LN GVQADFKPATLSSSLDN
PKESVITGHFEKEKPRKIFDSEPLCLSDNLMHQDNFDPLNVQELSENFLFLQEKNNLLKGSLSKEHINDLQTEK
NAGFTTEAMLETSCRNSLDTELQFAENKPGLSLLQENVSTKGDDTDVMLTGD TLSTLSQSSPEVQVPPTSFEETEET
PRRVPPDSLPTQGETQPTCLDVIVPEDCLHQDISPDAVTVPVEILSTDARTHS LDNRSQDSPGESEETLRLTESD
SVLADDILASRVSVGSSLP ELGQELHNKPFSEDHSHRRLEKNLEAVETLNQLNSKDAAKEAGLV SALSSDSTSQ
DSLLEDSLSAPFPASEPSLETPDSLESVDVHEALLDSLGSHTPQKLVPDPKPADSGYETENLESPEWTLHPAPEG
TADSEPATTDG DGHSGLPNPVIVISDAGDGHRGTEVTPETFTAGSQGSYRDSAYFSDNDSEPEKRSEEVPGTSP
SALVLVQEQLPEPVLPEQSPA AQDSCLEARKSQPDESCLSALHNSSDLELRATPEPAQTGVPQQVHPTED EASS
PWSVLNAELSSGDDFETQDDR PCTLASTGTNTNELLAYTNSALDKSLSSHSEGPKLKEPDIEGKYL GKLGVS GML
DLSEDGMDADEEDENSDDSD EDLRAFNLHLSLSSSESEDETEHPVPIILSNEDGRHLRSLLKPTAANAPDPLPEDWK
KEKKAVTFFDDVTVYLFDQETPTKELGPGCGGEACGPDLSGPAPASGSPYLSRCINSESSTDEEGGGFEWDDDFSP
DPFMSKTTSNLLSSKPSLQTSKYFSPPPPARSTEQSWPHSAPYSRFSISPANIASFSLTHLTDSDIEQGGSS EDG
EKD

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FIGURE 1710

CCCACCCGCGACGCCGACGCAAGGCTGCTGCTATCGGGCCGGGCGGCCGTGTGGCGCGGCTGCTCGCCCCACTAA
TGTGGCGCAGGGCGGTTTCCTCGGTGGCGGGGTCCGCGGTTGGAGCCGAGCCCGGGCTTCGGCTGCTGGCCGTGC
AGCGGCTTCCCGTAGGAGCAGCGTTCTGCCGGGCTTGCCAGACCCCAAACTTTGTCCGCGGCCTGCACAGCGAGC
CTGGGCTGGAGGAGCGGGCGGAGGGGACGGTCAACGAGGGACGCCCAGAATCGGACGCGGCAGATCATACTGGTC
CCAAGTTTGACATCGATATGATGGTTTCACTTCTGAGGCAAGAAAATGCAAGAGACATTTGTGTGATCCAGGTTT
CTCCAGAAATGAGATATACAGATTACTTTGTGATTGTTAGTGGAACCTTCTACCCGACACTTACATGCCATGGCCT
TCTACGTTGTGAAAATGTACAAACACCTGAAATGTAAACGTGACCCTCATGTTAAGATAGAAGGGAAGGACACTG
ATGACTGGCTGTGCGTGGATTTTGGCAGCATGGTGATTCATTTGATGCTTCCAGAAACCAGAGAAATCTATGAAT
TAGAGAAATTATGGACCCTACGTTCTTATGATGACCAGTTAGCTCAGATAGCACCTGAGACAGTACCTGAAGACT
TCATTCTTGGAATAGAAGATGATACTTCATCTGTGACTCCAGTGGAGTTAAAATGTGAATATAATTTTATGCA
CTGCGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1711

MGPGRVARLLAPLMWRRVSSVAGSAVGAEPGLRLLAVQRLPVGA AFCRACQTPNFVRGLHSEPGLEERAEGTV
NEGRPESDAADHTGPKFDIDMMVSLRQENARDICVIQVPPEMRYTDYFVIVSGTSTRHLHAMAFYVVKMYKHLK
CKRDPHVKIEGKDTDDWLCVDFGSMVIHLMLPETREIYELEKLWTLRSYDDQLAQIAPETVPEDFILGIEDDTSS
VTPVELKCE

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FIGURE 1712

GGGCCGCGACTGTGGTCGTTTTTATACCTTCCCGCGCGGACGCCGGCGCTGCCAACGGAAGGGCGGGTAGGGCGA
GACGGAGTTTCGTCATGTTGGCCAGGCCCATTTGAGATCTTTGAAGATATCCTCAACGTGAGGCTCTGCTGCCAT
GAAGGTGAAGATTAAGTGCTGGAACGGCGTGGCCACTTGGCTCTGGGTGGCCAACGATGAGAACTGTGGCATCTG
CAGGATGGCATTTAACGGATGCTGCCCTGACTGCAAGGTGCCCGGCGACGACTGCCCCGCTGGTGTGGGGCCAGTG
CTCCCACTGCTTCCACATGCATTGCATCCTCAAGTGGCTGCACGCACAGCAGGTGCAGCAGCACTGCCCCATGTG
CCGCCAGGAATGGAAGTTCAAGGAGTGAGGCCCCGACCTGGCTCTCGCTGGAGGGGCATCCTGAGACTCCTTCCTC
ATGCTGGCGCCGATGGCTGCTGGGGACAGCGCCCCTGAGCTGCAACAAGGTGGAACAAGGGCTGGAGCTGCGTT
TGTTTTGCCATCACTATGTTTGACACTTTTATCCAATAAGTGAAAACTCATTAACTACTCAAATCTTAAAAAAA
AAAAAAA

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FIGURE 1713

MKVKIKCWNGVATWLWVANDENCGICRMAFNGCCPDCKVPGDDCPLVWGQCSHCFMHMCILKWLHAPAGAAALPH
VPPGMEVQGVRPTWLSLEGHPETPSSCWRRWLLGTAPLSCNKVETRAGAAFVLP SLC

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FIGURE 1714

GTTTACATCCGCCGGGTGCGCGGTTTCGCCGCCCGAGGTCGTTTCGGCTCGGGTACCATCCTCCGCGCCATGGACAC
CAGCGACCTGTTTCGCCAGCTGCAGGAAGGGGGATGTGGGCCGAGTGCACCATGAACCCGTCCTGACCCAGGCTC
TGACCTCCTTCCTGCCAGGTACCTGCTGGAGCAGCGAGACGTGGAGGTACTATGCCTGCTTGTGTGGGCACGAG
GAGCTGGTACTCTACCTTCTGGCCAATGGAGCCCGCTGCGAGGCCAACACCTTCGATGGTGAGCGCTGCCTCTAT
GGCACTGAGTGACCCCATCCGCCGGGCTCTACGCGATTACAAGCAGGTACGGCTTCCTGCAGGAGGCGGGAT
TATGACGACTTCTTGACGCGCTTCTAGAGCAGGGCATCCACAGTGACGTGGTCTTTGTAGTACACGGGAAG
TTCCGGGTGCATCGCTGCGTCCTGGGTGCACGTAGTGCCTACTTTGCCAACATGCTGGACACCAAATGGAAG
GGCAAGAGTGTCTGTTCTCAGGCACCCACTGATCAACCCCGTGGCCTTTGGGGCCCTGCTGCAGTACCTGTAC
AGGCCCGCTGGACATTGGCGTAGAGCATGTGAGTACTGTGAGCGCCTGGCCAAGCAATGCCAGCTGTGGGAC
GCTCAGCGACCTGGAGGCCAAGTGCGAGAAGGTGTCTGAGTTTGTGGCGTCTAAGCCAGGCACGTGTGTGAAG
GCTGACCATCGAGCCCCCACCCTGCAGACCCCGCCTCCGGGAGGACATGGCGCTGCTGGCCGATTGTGCCCTG
GCCCGAGCTCCGAGGTGATCTTTGGGAGCTGCCCTTCCCTTGTCTGACGGCTTCAACAGCTGCCCTGACATC
CTTCCGAGTGGCTGGCTGCAGCTTCCTCTGCCACAAGGCCTTTTCTGTGGCCGAGTGACTACTTCCGAGCC
CTGCTGGATGACCACTTCCGAGAGAGCGAGGAGCCAGCGACCTCAGGGGGCCCCCAGCCGTCACCCTGCATGGC
ATCTCACCCGACGTCTTCACTCACGTGCTCTACTACATGTACAGCGACCACACTGAGCTGTCCCCGAGGCAGCC
TATGATGTGCTGAGCGTCGCGGACATGTACCTGCTGCCAGGCCTGAAGAGGCTGTGCGGCCGAGCCTGGCTCAG
ATGCTAGACGAGGACACTGTGGTGGGTGTGTGGCGCGTGGCCAAGCTCTTCCGCTGGCGCGGCTTGAGGACCAG
TGCACTGAGTACATGGCCAAGGTCATTGAGAAGCTGGTGGAGCGGGAGGACTTCGTGGAGCGGTGAAGGAGGAG
GCAGCGGCTGTGGCAGCCCGGCAGGAGACGGACTCTATCCCGCTGGTGGACGACATCCGCTTCCACGTGGCCAGC
ACGGTGCAGACCTACAGCGCCATAGAGGAGGCGCAGCAGCGTCTGCGGGCACTCGAGGACCTGCTCGTGTCCATC
GGTCTGGACTGTGAGACCCCTGGCTGGGCAGCCCCAGGGGCCAGGAGCTCTCTTGGAGACAAGCATGTGTATGCG
TTTGTGTGCAGCTCTTCTTCTGCTCCCTGCACATTGAGGGCTTCATGGGGGGTGCGAGGGGCTCAGTGGGGCTT
CTCTTCCCTCCATGAGCCTGGAGACCCAGGGGAGGATCCATTGGGGATGAGCCCCCTCCCCCAATGCACAAGC
CAGCCCCCAAGACCCTGGGGGTGGACACCACTCAGGGAAACCTGGGGTGGGGTGGGCTTTGGTCTTAGCACTTT
CCTTCTCCAGATCCCCCTACCCACCCAGTCCCAATCCAGTCCCTTGGCCCTTGCCCTAGCCCTGAATTGCTTC
TCTAAGCTGGTGTTCCTATGCACAGGGCCATTAGGAAGGGCTGGGGGAGTGTGTGTGGCAATAAAGCTTGAAGG
CACCGTGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1715

MLDTKWKGKSVVVL RHPLINP VAFGALLQYLYTGR LDIGVEHVSD CERLAKQCQLWDLLSDLEAKCEKVSEFVAS
KPGTCVKVLTIEPPPADPRLREDMALLADCALPPELRGDLWELPFPCPDGFNSCPDICFRVAGCSFLCHKAFFCG
RSDYFRALLDDHFR ESEEPATSGGPPAVTLHGISP DVFTHVLYMYSDHTELSPEAAYDVL SVADMYLLPGLKRL
CGRSLAQMLDEDTVVGWVRVAKLFRLARLEDQCTEYMAKVIEKLVEREDFVEAVKEEAAVAARQETDSIPLVDD
IRFHVASTVQTYS AIEEAQQRLRALEDLLV SIGLDC

[illegible]

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FIGURE 1717

IFSKTSCFYLKFFSYLL

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FIGURE 1718

TGCGGCCGCTGCCTTGGACCCAGCGCCACCCGCACACGGCGCTCCGCTAGCCAGGCCGGGAGCAAGAGCCAGGCG
GTGGAGAAGCCGCCGCTCGGAGAAGCCGCGGCTGAGGCGCTCGTCGCGCCGGGCCCCAGGAGGAGGGCCGGGGGAG
CCGCCGCCGCTGAGCTGGCGTTGCTCCCGCCACCGCCGCCGCCGCGCCGACTCCCGCGACCCCGACGTCCTCG
GCGTCCAACCTGGACCTGGGCGAGCAGCGGGACGCTTGGGAGACGTTCCAGAAGCGGCAGAAGCTTACCTCCGAG
GGTGCCGCCAAGCTCCTGCTAGACACCTTTGAATACCAGGGCCTGGTGAAGCACACAGGAGGCTGCCACTGTGGA
GCAGTTCGTTTTGAAGTTTGGGCCTCAGCAGACTTGCATATATTTGACTGCAATTGCAGCATTGCAAGAAGAAG
CAGAATAGACACTTCATTGTTCCAGCTTCTCGCTTCAAGCTCCTGAAGGGAGCTGAGCACATAACGACTTACACG
TTCAATACTCACAAAGCCCAGCATACCTTCTGTAAGAGATGTGGCGTTTCAAGAGCTTCTATACTCCACGATCAAAC
CCCGGAGGCTTCGGAATTGCCCCCCTGCCTGGATGAGGGCACTGTGCGGAGTATGGTCACTGAGGAATTCAAT
GGCAGCGATTGGGAGAAGGCCATGAAAGAGCACAAAGACCATCAAGAACATGTCTAAAGAGTGAGCTTCTGCCTCT
CCTGCCCTGAAAAGGAGGAATGATTGGGGCCAGCAACTTTGCTCTCCCTGCCGTGCCTCGGTGGTGTCTCTGAAT
GTGGCTGACCTGGGCTGCTGGTTCCGTTGACTAGGGTCATCTTGATCTCTGCAGTTTGCTCCAGCTACCACTTTT
TTTAGGCAGCTCTTTGTCTCCCTCTGCCCAGATTTTGATGTAGTCTAATTGACATCCTTCTCTTCCCACTTTT
GTGTGATCCAGCAGAGCATGTGAGACTCTTTGATATGCACCTTCATGTATTATCTTGTTCACTTCTCTGAGGTTG
GGATCATTATTATTTCCCATTTTGCAGATGAGAGAATTGAGGCAGAGAAAGGTTTCAACCTTGCCTTTGGTTAC
ACAGCTGGTCATTCTGGCTTCAATCGCAGGACTACCAGCCTGTGCTCTTCACTTCTAGCTTCCCTGACTCAGGC
CACTTCCCTGGAGCGTTAGCTGGATTCTGAGAGTAGTTTCCAAGCCAGAGCTTTCAGAGAGCTTTTGTTCGTAGG
ACAATTTTAAAGACATCAGGTTCTTGAATGTTTTGTGTTTTTTTAAAGTCTCAGATTATCTTCTTCTTCTTCTTCT
CTCCAAAAGACTGAGAGCTGACATATTTGATTGTAAGCTCTTTGAGGCAGAGTTCTTGAATCGTCTCTGTATA
AAACAGTGCCCACCCCAGTGACCTGTACTTGGATGCTTCAATCAGAGCTGTCTGTAAATAGAGCAAGTTTTTC
CTAGACCCACATTCT

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FIGURE 1719

CGRCLGPSATRTRRSASQAGSKSQAVEKPPSEKPRLRRSSRRAPGGGPGEPPELALLPPPPPPPTPATPTSS
ASNLDLGEQORDAWETFQKRQKLTSEGAAKLLLDTFEYQGLVKHTGGCHCGAVRFEVWASADLHIFDCNCSICKKK
QNRHFIVPASRFKLLKGAEHITTYTFNTHKAQHTFCKRCGVQSFYTPRSNPGGFGIAPHCLDEGTVRSMVTEEFN
GSDWEKAMKEHKTIKNMSKE

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FIGURE 1720A

CCCGGGCGAGCCCGCCGTGCGCACAGCTCTGCCGCGCCCTGGAGCGGATCCCCAGCCGTCCCTGGGCGTTCT
CCCGGGTTCTAGCAAAGCCCCCGGGGTGCCCATCAGTTTCTTTGGGTGACTACAGCGTGTGTTTTTCTTTCT
CTTTCCCTGCTGTGTGCCCTTCTCCAGGATGGCAGAGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCA
GAAAAAAGAAAGAGGCGAGCTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCAT
AAGTCCAAAGTGCTTCGGGAGAAATGGCTGCTGCAGGGCATAACCGCTGGAACTGCCGAAGAGGAGGAAGCC
AGCGGGCAGTCTGAAGAGGATGAGTTTCAAGTCAAGCAACTTGAAGATAACATTTCAGAGGCTGGAGCAAGAA
AATAAACGCTAGAAAGTGAAGAGTCCAGATATCTGCCAAAGAGCAAATCATCCTAGAGAACTGAAGGAAACA
GAAAAATCCTTCAAGGACTTTTCAAGAGGTTTCTCCAGTACGGATGGAGATGCAGTAAATTACATTTCTCCCAG
CTCCCGACCTGCCAATCCTCTGTTTACGAACAGCAGAACCATCACCTGGGCAGGACGGGACCAGCAGAGCGGCT
GAGTCCGGGTGGGAGAAATGTGCTGCTAAAGGAAGGTGAGTTCAGCCTCGAACGCCACAGAAACATCCGGCCCAGAC
GAGCTATCAAGAAGCCTCCCCAGCTTTCTGAGGATGATATCTGGCTAAAAAGCGAGGGAGACAACATATAGTGCC
AATCTCTGGAGCCTGCTGCCAGCTCTCTTTCCCAGATCACAAAAACATGGAAATTGAGGTGTCTGTTGCAGAA
AATAAGTGTCTCTGGAATCACCTCTACCCACATCCCATGGACCATCCCTCCGCTTTCTATTACCCCCGCAT
AATGGCCTCCTTACTGATCACCACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTG
CTAGAGGCCAACTGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCTCCCCAGAGCCTGGTGCAGTG
GTTCTGGTGGGCGGCCTAAGCCCCCTGTCCACGAGGCGACCCAGCCAGAACCCTGAAAGAACAGCTAGCCGG
CAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGCCCTGACCCCATGGCAGAGGCAGAAAGAACAATGGCCAT
TCCCCCAGCCAGCCTAGAGATGCGCTGGGGGACAGCCTGCAGGTGCCTGTGAGCCCCAGCTCCACAACCAGCTCA
CGGTGTTCTTCCCGAGATGGAGAGTTCACTCTCACCACACTGAAAAAGGAGGCCAAGTTTGAGCTGCGTGCCTTC
CATGAGGACAAGAAGCCCTCCAAGCTCTTTGAGGATGACGAGCATGAGAAAGAACAATACTGCATTAGAAAAGTG
AGGCCTTCAGAGGAGATGCTGGAGCTGGAAAAGGAGAGAGAGAGCTCATCCGCAGCCAGGCCGTCAAGAAGAAT
CCTGGCATTGCAGCAAAAATGGTGGAAATCCCCCGCAGGAAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTG
GAGTCGCACAAAAAGTACAAGGAGCGCAAAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAAGCAGTTA
CAGCAGCAGCAGCAGCAGCCCCCATCGCAGCTCTGCACAGCCCCCTGCCTCTTCTCATGAACGCGCAAGCATGATT
GACAAAGCAAAGGAGGACATTGTACAGAGCAGATAGATTTCTCTGCTGCTCGCAAACAATTTAGCTGATGGAG
AATTCCAGGCAAGCGGTGGCCAAGGGCCAGAGTACACCCAGGCTGTTCTCCATCAAGCCTTTCTACAGGCCTCTG
GGGTCACTCAACTCAGACAAGCCACTGACTAATCCGAGACCACCTTCTGTGCGGGGACCTCCAGAAGACAGTGGT
GCCTCAGCCGCCAAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCATCGGCAGCAGGAAGCCAGGGCAACACA
GCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTGGGCCCTTATCTAAACTGTGGGCTGAGGAT
GGAGAATTTACGAGCGCCCGGGCTGTCTCTCACTGTGGTCAAGGATGATGACCATGGGATTTTGGATCAGTTCTCA
AGATCTGTCAATGTCTCCTTGACCAAGAGGAGCTTGACTCTGGTCTGGACGAATTGTGCGGTGAGGTCTCAGGAT
ACCACAGTCTTGAGACCCTATCCAATGATTTTACGATGGACAACATCAGTGACAGCGGGGCATCCAATGAGACA
ACCAATGCCCTCCAGGAAAATTTACTGGCTGATTTTCTCTGCCCCAGACACCACAACTGACAACCCCTCAGAG
GGCCGAGGAGAAGGCGTCTCCAAGTCATTTAGTGATCATGGTTTCTATTCCCCTTCTCCACGCTGGGGGACTCT
CCGTTGGTTGATGACCCCTTGAGTATCAGGCTGGCCTCCTGGTGCAGAATGCCATTCAACAAGCCATAGCCGAG
CAGGTGGATAAAGCTGTGTCCAAAACCAGCAGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAA
GCTGAAGCTGCGGCTTTTCGGCTCAGAAAAGCCTCAGAGCATGTTTGAGCCACCTCAGGTGTCTTCTCTGTTCAA
GAGAAAAGGGATGTATTACCAAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAAGGGGGCCCCCCCCAGCCA
CTGCCAGCTGTGCAGCCAGTGGCCCGATTAAACATGGAGGAGACCAGGCCCGAAGGAAGCTATTTTACGCAAGTAC
TCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAAGAATCTGACGTGATGGTTGGGCCCTTTC
AAGCTGAGGTCCAGGAAACAGCGGACTTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGAAGAG
GAGCTGAAGAGGCAGAGACAAGTCTTGCAAGTACGCAGAGCCCCAGGACAAAGAATGCCCCATCACTGCCCTCC
AGAACATGCTACAAAAGTCTCCAGGGAAAATAGAGAAAGTCAAACCTCCTCCATCCCCCACCCTGAAGGCCCC
AGCCTGCAGCCTGACTTAGCCCCGTAAGAGGCTGCCGGAACCCAGCGGCCCAAGAATCTGATGCAGACCCTCATG
GAAGACTATGAGACACACAAATCTAAAAGGCGCAGAGAATGGATGATAGTAGTTACACTTCTAAGTTACTGTCT
TGCAAGGTGACTTCCGAGGTCTTCGAGGCCACACGGGTTAATCGAAGAAAGAGCGCACTGGCTTTGCGCTGGGAA
GCAGGGATCTATGCCAACAGGAGGAAGAAGACAACGAATAAATCTTCAACCCAGGAAGCGTCTTTGGTGTCT
TGGGAGACCAAGAAACCAAGAAATTAACAAGTGAAGCATTTTAATGGACTATTTATTAAAGTGCAACAAACTC

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FIGURE 1720C

TGGTGAATATATTCCATTTTAGTTAAAGAACAAATTCCTGAATTTAAGCATTCAGTGAGCTGCCAATTTTGAT
TTTGTGTTGCTCTTTACCCAAATTATTTTTCTTTGTTTTCTTTTTTGGGGGAGGAGGGGAAAAAGCAGCAA
TACTGTGTTGGAAATTATACTCTGTATCTGGTTTTCTGTGTATGTTAACCCTTAAATGTTATTATCCTGCTT
TGGTTTAGAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTCTCATTAAATCCAATGTGTGTTGAG
TTTTTATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1721

MAEAE LHKERLQAI AEKRKRQTEIEGKRQQLDEQILLQHSKSKVLREKWLLQGIPAGTAE EEEARRRQSEDEF
RVKQLEDNIQRLEQEIQTLSEESQISAKEQIILEKLEKETEKSFKDFQKGFSSSTDGDAVNYISSQLPDLPI LCSR
TAEPSPGQDGTSRAAGVGWENVLLKEGESASNATETSGPDMTIKKPPQLSEDDIWLKSEGDNY SATLLEPAASSL
SPDHKNMEIEVSVAECKSVPGITSTPHPMDHPSAFYSPPHNGLLTDHHESLDNDVAREIRYLDEVLEANCCDSAV
DGTYNGTSSPEPGAVVLVGGLSPPVHEATQPEPTERTASRQAPPHIELSNSSPDPM AEARTNGHSPSQPRDALG
DSLQVPVSPSSTTSSRCSSRDGEFTLTTLKKEAKFELRAFHEDKKPSKLFEDDEHEKEQY CIRQVRPSEEMLELE
KERRELIRSQAVKKNPGIAAKWWNPPQEKTIEEQ LDEEHLESHKKYKERKERRAQQEQLLLQKQLQQQQQQPPSQ
LCTAPASSHERASMIDKAKEDIVTEQIDFSAARKQFQLMENS RQAVAKGQSTPRLFSIKPFYRPLG SVNSDKPLT
NPRPPSVGGPPEDSGASAAKGQKSPGALETPSAAGSQGNTASQGKEGPYSEPSKRGP LSKLWAEDGEFTSARAVL
TVVKDDDHGILDQFSRSVNVSLTQEELDSGLDELSVRSDTTVLETLSNDFSMDNISDSGASNETTNALQENSLA
DFSLPQTPQTDNPFSEGRGEGVSKSFSDHGFYSPSSTLGDSPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTS
RDGAEQQGPEATVEEAEAAAFGSEKPQSMFEPQVSSPVQEKRDVLPKILPAEDRALRERGPPLPAVQPSGPI
NMEETRPEGSYFSKYSEAAELRSTASLLATQESDVMVGPFKLR SRKQRTLSMIEEIRAAQEREELKRQRQVLQ
STQSPRTKNAPSLPSRTCYTAPGKIEKVKPPPSPTTEGPSLQPD LAPEEAAGTQRPKNLMQTLMEDYETHSKR
RERMDDSSYTSKLLSCKVTSEVLEATR VNRRKSALALRWEAGIYANQEEEDNE

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FIGURE 1722

GCTCTCGGGCCGCCCTCTTCGCCGTCTCCACGCCTCCGCGGGCAGTTACCAGCTTTGGCTGCTCGCGCCTCCCC
AACTCGGGTAAAGCTCCTCGGCCCTCGGCGTGCTGCGCCTCCGCGGCTGCCCTGCGCCAGAATTCGGTTCCCTCAA
AATTATAAAAGCAGGAAAGCTCAAGACAAAGAAATCCAACAAGGCTAGTGATTTCAGTGATATGGAGAATTGGCC
AACACCAAGTGAATTAGTGAACACTGGATTTCAGAGCGTCTCAGCCAAGGAAATAAAAAGCCACAAAATAGAAA
AGAAAAAGAAGAGAAGGTTGAAAAGAGAAGTAACAGTGACAGCAAAGAAAAACCGGGAACAAAATTAAATGGTCC
TGGTGAAAACGTCAGTGAGGATGAGGCTCAGTCAAGTAATCAACGTAAGAGAGCTAATAAGCACAAAGTGGGTACC
ACTCCACTTAGATGTTGTAAGATCAGAGAGTCAAGAAAGACCTGGATCCCGGAACAGCTCAAGATGTCAACCTGA
AGCAAATAAACCAACACATAACAATAGGAGAAATGATACACGAAGTTGGAAGCGAGATAGAGAAAAAGAGATGA
TCAAGATGACGTTTCCAGTGTGAGAAGTGAGGGTGGTAATATCCGAGGTTCTTTAGAGGTCGAGGAAGAGGCCG
AGGACGGGGGAAGAGGACGAGGCAGAGGAAATCCTCGATTGAACCTTTGATTATTCATATGGTTATCAAGAACATGG
TGAAAGGACTGATCAACCATTTCAAACAGAACTTAATACCAGTATGATGTATTACTATGATGATGGTACAGGTGT
ACAGGTGTATCCTGTGGAAGAAGCGTTGCTTAAAGAGTATATTAAGCGTCAAATTGAATATTACTTCAGTGTAGA
AAATTTGGAACGAGACTTCTTTCTTCGGGGAAAGATGGATGAACAAGGTTTCTTGCCTATTTCCCTGATTGCTGG
TTTTACGCGTGTTCAGGCTCTCACTACAAACCTTAATCTCATCTTAGAGGCACTGAAGGATAGCACAGAAGTAGA
AATTGTGGATGAGAAAATGAGAAAAAGATAGAACCAGAAAAATGGCCAATTCCAGGCCCTCCTCCACGCAGTGT
GCCACCAACAGACTTCTCTCAACTGATTGATTGTCCAGAGTTTGTACCAGGCCAAGCCTTTTGCTCACATACAGT
CAGGGTGTATGATCTTCTGAAGCTCTTGGATGTCAATTTGATCGGAATATGCAGTGGAATAGGTGACTCACTGAAAT
GCCTTTATAAATACTGGAACAAATCCTGCTGCAAAAAATGAAAGCGATCAGACTGTCTTCTGTTCAAGAATGTCTA
TTCCCACCTCTTGGTGGAGGAAGTTGGGCCAACACTGCAGTGGAGATAACCACCTTTGCGATAATGAGAGACAGA
CCAGAGGACTGCTACTCTTTTTATAGGAGCTGCCTATTTCTGTGTAATTGGCCTGGGCTGCATGGGCTGCTTTTA
TTCATGGTGGGAAAGTTAATTATTATTATTCTGGAAATACCGCAAGATTATGTTTTCTGTTTCCAGGGTTATGTA
CTTGTGTCCAGATGAATAAAGCAGAAAAAGAGGGGATTGAGTAGCATTTCAGATTCTTAAGTACTTTGCTATT
CGATTTGCCTTTTCAGTGTAGTGTACATTGTAAACTCAGATATTGTCATGATGTTTCACTTGGACATAAGACTTA
TTAATGTGGTCACTTAAGGGGTAAGGAATTTAAGAACTGGATGAGGTTATTTCTTCTTTACTCTTCAAAATGTA
TTTTTGATACATCAGTATGAGAGGACGTCCCATCAACAAAGCATCGATGATGGACAGTCTCACACTATTTTTATC
ATATGTTTCTTTGTCAGCCTTCTGCTTCTAATCCCAGTAAGCAACTTGGACAGGCATTTTAAAAGCTGAAGAAAA
GTGACATTATTTTAGCTAGTGGTTTTTAATTTATTTTTGTTAAGATATAATGGGTGATTATATAAGTTAGATTT
ATTTATGATATCAACTTGGGTCCAAGATGATAGTTTTAGCTAGCTTATGAACATTGGGTTCAACAGGCATTGGGT
AAGTTAGATAAAATAGCATATACTTTCTCTGCAGGGTAGGTAAGATAGGTCAGTCAAGTTGGTAATGCCTGTCCA
TTAACCATTTATGCATACTAATAAAATTATAAGAATAAAATCATAATGTTGT

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FIGURE 1723

LSGRPSSPSRLRGQLPALAARASPTRVKLLGLGVLRLRGCPAPEFGSLKIIKAGKLKTKKSNKASDFS DMENWP
TPSELVNTGFQSVLSQGNKKPQNRKEKEEKVEKRSNSDSKENRETKLNGPGENVSEDEAQSSNQKRANKHKWVP
LHLDVVRSESQERPGRNSSRCQPEANKPTHNNRRNDTRSWKRDREKRDDQDDVSSVRSEGGNIRGSFRGRGRGR
GRGRGRGRGNPRLNFDYSYGYQEHGERTDQPFQTELNTSMYYYYDDGTGVQVYPVEEALLKEYIKRQIEYYFSVE
NLERDFFLRGKMDEQGFLPISLIAGFORVQALTTNLNLILEALKDSTEVEIVDEKMRKKIEPEKWP IPGPPRSV
PPTDFSQ LIDCPEFVPGQAFCSHTVRVMIF

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FIGURE 1724A

CCAGGGAGAGGACTGCGGCCAAGAGTGCCCGGTGGGGACGTTTTGGCGTGAACTGCTCGAGCTCACTGCTCCTGT
GGGGGGGCCACCTGCCACGGGGTCACGGGGCAGTGCCGGTGTCCGCCGGGGAGGACTGGGGAAGACTGTGAGGCA
GGTGAAGTGTAGCCCGAGCCCCAGTTCCGCCCTCCCCAGGCTGCACGGCTCCAAGCTGGTGGGGCCCTGAACTGTG
GGGGCCCCAGCCCTGCGGATCCCAGGCCCGTCTATAGCAGGTGTGAGAGCTCACAGTGCACCTCCCCTGGGGTAGG
GGGGGGGCTGTGTGGCTGCCCCACCAAGTTCTTGGGGCTCCAGGCTGCCCTCTCGGGCTGCTCCCTCTCTGCA
GCTCCATCTCTAACGGGCTCGGCTCCTTGTGTGGCAGCTGAACGGTGCCGGGGCTGGGGGTCTCTACT
GGTGCGCACCCCGCAGCCTGCAGCCCCAGGAGGTGCCGGGTCTCTCCCTCCCCGGGGCAGGCTGAGATG
GTAACAGTGGTTCCACCTCCTCGGCTGTGGCTCCAGGGGCATCGTGCCATGTTATGTTGATGTGTTGAGCAAGGG
GCTTGGGCACTGACTGGCCATGGGGGTGGGCACTAGATTGTCCCGAGGGCCGCTGGGGGTGGGCTGCCAGGA
GCTGCCCAGCATGCCAGCAGCTGCCCGCTGCGACCCTGAGACCGGAGCCTGCCTGTGCCTCCCTGGCTTCGT
GAGCCGCTGCCAGGACGTGTGCCAGCAGGCTGGTATGGTCCCAGCTGCCAGACAAGGTGCTCTTGTGCCAA
GGGGCACTGCCACCCAGCCACCGGACACTGCAGCTGTGCCCCGGGTGGACCGGCTTTAGCTGCCAGAGAGC
GTGATACTGGGCACTGGGGACCTGACTGCAGCCACCCCTGCAACTGCAGCGCTGGCCACGGGAGCTGTGATGC
CATCAGCGGCTGTGTCTGTGTGAGGCTGGCTACGTGGGCCCCGGTGCAGCAGCAGTGTCCCAGGGCCACTT
TGGGCCCCGGCTGTGAGCAGCGGTGCCAGTGTGAGCATGGAGCAGCCTGTGACCACGTGAGCGGGCCCTGCACCTG
CCCCGGCCGGCTGGAGGGGCACCTTCTGCGAGCATGCCTGCCCGGCCGGCTTCTTTGGATTGGAAGTGTGCGAGTGC
CTGCAACTGCACCGCCGGAGCTGCCTGTGATGCCGTGAATGGCTCCTGCCTCTGCCCCGCTGGCCGCCGGGGCCC
CCGCTGTGCCGAGACCTGCCCAGCCACACCTACGGGCACAATTGCAGCCAGGCCTGTGCCTGCTTTAACGGGGC
CTCCTGTGACCCTGTCCACGGGCAGTGCCACTGTGCCCCCTGGCTGGATGGGGCCCTCCTGCCTGCAGGGTAAGCC
ACATCTAGGAGTCCAGGGACCGGGTCCAGGCCTGAGCGAGGGTGTGCGCTTTCACCTGTGCCCCCTCTCCAGGCAGG
GGTGCCTGGGGGAGGGAGGAAGGGGCTGTTAGGACTGAGGACCGTGCCTTTCACCTGTGCCCCCTCTCCAGGCAGG
GATGGGGAGTGAGGCTGGGCTGGCAGGTATCCTAGGGGCAGCCCCCTGCAAGGTGCCTGACCCCAAAGTCCAAC
ATGGGGCTGGAAAGCCAGACAGACCCCTGTGGGGCCAGCTGGCTGGGGGATGCAGGTTGCTCCCTCTTCCCTGGCC
CCAGCCTGCCCTGCCGGCCTGTACGGCGACAAGTGTGCGCATTCCTGCCTCTGCCAGAACGGAGGGACCTGTGAC
CCTGTCTCAGGCCACTGTGCGTGCCAGAGGGCTGGGCGGGCCTGGCCTGTGAGAAGGAGTGCCTCCCCGGGAC
GTCAGAGCTGGCTGCCGGCACAGCGGCGGTTGCCTCAACGGGGGCTGTGTGACCCGCACACGGGGCCTGCCTC
TGCCAGCCGGCTGGACTGGGGACAAGTGTGAGAGCCACCTGCCCCCGGCTGTCTGGCCACAGATCCCCAC
GGGCCCCCTCTAGAAGCCTCCGCAGCCCTCATCTTTCTGAGCCTGCCTGCGGGGCTGGTTTGGAGAGGCCTGTG
CCCAGCGCTGCAGCTGCCCGCCTGGCGCTGCCTGCCACCACGTCACTGGGGCTGCCGCTGTCCCCCTGGCTTCA
CTGGCTCCGGCTGCGAGCAGGCCTGCCACCCGGCAGCTTTGGGGAGGACTGTGCGCAGATGTGCCAGTGTCCCG
GTGAGAACCCGGCCTGCCACCCTGCCACCGGGACCTGCTCATGTGCTGCTGGCTACCACGGCCCCAGCTGCCAGC
AACGATGTCCGCCCCGGGCGGTATGGGCCAGGCTGTGAACAGCTGTGTGGGTGTCTCAACGGGGGCTGCTGTGATG
CGGCCACGGGGGCTGCCGCTGCCCCACTGGGTTCTCGGGACGGACTGCAACCTCACCTGTCCGCAGGGCCGCT
TCGGCCCCAACTGCACCCACGTGTGTGGGTGTGGGCAGGGGGCGGCTGCGACCCCTGAGACGGCACCTGCCTCT
GCCCCCGGGGAGAGCCGGCTCCGCTGTGAGCGAGGCTGCCCCAGAACCAGGTTTGGCGTGGGCTGCGAGCACA
CCTGCTCCTGCAGAAATGGGGGCTGTGCCACGCCAGCAAGCGGCAGCTGCTCCTGTGGCCTGGGCTGGACGGGG
CGGCACTGCGAGCTGGCCTGTCCCCCTGGGCGCTACGGAGCCGCCTGCCATCTGGAGTGTCTCTGCCACAACAAC
AGCACGTGTGAGCCTGCCACGGGCACCTGCCGCTGCGGCCCGGCTTCTATGGCCAGGCCTGCGAGCACCCCTGT
CCCCCTGGCTTCCACGGGGCTGGCTGCCAGGGGTTGTGCTGGTGTCAACATGGAGCCCCCTGCGACCCCATCAGT
GGCCGATGCCTCTGCCCTGCCGGCTTCCACGGCCACTTCTGTGAGAGGGGGTGTGAGCCAGGTTCAATTGGAGAG
GGCTGCCACCAGCGCTGTGACTGTGACGGGGGGGACCCCTGTGACCCTGTACCGGTCTCTGCCCTTTGCCACCA
GGGCGCTCAGGAGCCACCTGTAACCTGGATTGAGAAGGGGCCAGTTTGGGGCCAGCTGCACCCCTGCACTGTGAC
TGCGGGGGTGGGGCTGACTGCGACCCCTGTGAGTGGGAGTGTCACTGTGTGGATGGCTACATGGGGCCCACGTGC
CGGGAAGGTGGGCCCCCTCCGGCTCCCCGAGAACCCTGCTTAGCCCAGGGCTCAGCGGGCACACTGCCCGCCTCC
AGCAGACCCACATCCCGGAGCGGTGGACCAGCGAGGCACTAGTAGAGGCAGTCCCGTGGAGCCCGCCTCTCCAGT
CCCAGCCAGAGGGGACCCCTGGCCTTTGGTGACCACTGAGAAGGACACTTACGGGGCCAGAGCTCCTGGTACTGC
CCTTCCTTTGAGGGCCGTGGAGGGCTGTGGACAGCCAGCAACCTGTGCTCTTGGAGGCTGGTGTGGCCTTGAG
GAGGGAAGCCTCGCATGGCCGCTGGAAGAGAGGCGCCTCCTGGCCTGGCTCTGCAGAACCAGGGGCAGCTCTG

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FIGURE 1724B

GGCCTGGGCTGAGGAAGTCCCGCTCTCCCCGGGCTCTGAGTTGGACTGAGGACAGGTGTGGGCGCCAGTGTGGG
TGCAGGCGCAGGTGCAGGCACAGGGCCACTGTCTCCAGGCAGGCTTTTTGGTGCTAGGCCCTGGGACTGGAAGT
CGCCAGCCCGTATTTATGTAAAGGTATTTATGGGCCACTGCACATGCCCGCTGCAGCCCTGGGATCAGCTGGAA
GCTGCCTGTCTCTCTGCCAATCCCCAGAAACCTGATTTCAGGTCTGCAGGCTCCTGCGGGCTCACCAGGCTG
CTGGCTCCGGTACCATGTAAACCTAGGAAGGTAAAGGAGCAGGCAACCTCCTCGTGGCCTGTGTGTTTGTGTGT
TACGTGGACTCTGTGTGGGCTCCTCCCTGGGGCCCGGCCAGCATAACGGTGCACCCAGGGACCTCCCAGTGCACC
CGGGGCCCTTTGCAGGGGTGGGGGTGCCACACAAGTGAAGAAGTTGGGACTCATCTCAGTTCCCAGTGTATTGA
GGAGAACGCTGGGGCTGCATTTCATTACCGCTGAGACCCAGAGACTGGCTGTTCCCAGAGAATGGCCCAGGGGGAG
GAGGGCTGGTGTGGAGGGGCAACCTGGACTGAGGCCGAACCTCCCTTGGGCTCACCCACCCACCCCTACCTGAGC
ATCAGCAGTGGGGGGAGGGCAGCATCGCAGGGGCAGGGACTCCCTGGGTGAGGACAGACCAGCCCTCCCGAGCAC
CTGGCACTCATGGGCTGAGGCTGACTTCTCCTGGAAGAAGGGCCCAGAGTGGAAAGGAAGAGGCAGAGGGTAGAGG
TGGTGGCTGGGGGCTCCTCTGCAGAGTGGGGTGGCCAATGGAGAGGGCTGCACTCACACCGCAACATAGGACTCT
CTCTCCCTTAAGAAGGCCCCCTTAGGGTCTGGGCTGCCGCCCCCATCACCTAAAACAGCCAAGGTAGCTGAGG
CCCCAGGGCAGACAATTTACCAGCAGGAGGAGGAGGTCCAGTGAAGTTGGTTGCTCACAGACAGCAAGGGAG
CTGTACAGAGGAAGCTGATGAATGGACCGCTGTGGGGAGACTTTAAAGTAGAACAGTGATAAGGGAGGGCAGGA
TGGTGGGGATGCAGAAGCAGCAGCCAGAGAGAGACGGACTGGGGTGCAGACGGAGTGTGGAAAACGCATACCTTG
AAATGAAGCATCCAGCAGATGGGGTGAGTGGATACAGCTCAGGAGATTCTCCCAGGAATAGCAGGGAGGCGTAAA
GAGAGACAACGTACAGAGATAGATGAATGGAAATGGGTAAAGGGAGGTGTTTCATTACATCCATCTAACTGCAAAA
TACAAAAGTAAGAAGTCATTGACATGAAGCAACGACGACCAAGACGTTCTCAGATCTAAAGGTGAATGATCTCAG
TCAGCCTGGAAATGCACAAGGTGGAAAAATAACATAAAAAAGCCATAAGACCTGAAGAACATCAATGTCAAAGA
TAAATTCTAAAGTCCCAGAGAAAAAAGAATGGGAATCAAATTGACCTCAGACTATACGTGAGAAACACGGAGAGC
CAGAAAACTGTGATGTTCCATCCTCAGAGTTTGAAGGAAATATTTGAAGGCTGAATTTTACATCCAGCTAAACTA
TCAAAGGCATGCAAAGTCCATGTTATTCTTAGGCCTTCAAGGCCTCGGCCATTTTCTACAGAAAAGCCTGATTT
TAAAAATGCTCTTAGAGACGTTCTCCAGCCAGAAGAGAAAGAAGCCAGGAGGGTGCTCTGAGATATTCAGTCACCA
CAGTTCCCAAATGGCCTAGGAATTGAGAGAGTCAGAAATATCACCATTAATCCCCAATGGGAACCCCGACAGTCT
CAGCATGGTGTGAGGGTGTGGACGGGGGGCCTGGCAGGTACCAATCACTCATCCCGCTCAGTGAAGACACAGTGT
TCAGCTACGGAAGCCATAAGGCAGGCCGAGCTTCTGCCCATCCGGAGGAAATCTCAGCTATCCAACGGCGGTCAG
GAGCAGAGGAAAATAAAGCAGAATAACTAGAAAAACACGCTCACAGATCCTAATGTAAACGGTTACAAATGACGAC
GGAAAAACAACTCCTGACCATATATTATATAGTTTCAAGCAGCAAGAAGGAGGATATTGAACATTCTCAACACA
CATAATAAACGCTTGAGATGATGATATGCTCATTACCTGATTTGATCACTAGACATCCCATGTATCAAAACATC
ACTGTGTATCCGATGAATATCTACAATTATTGTCAATTAAAAACATCAATAAAAACAA

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FIGURE 1725

MGLESQTDVPVGPAGWGMQVAPSSSLAPACFAGLYGDNCRHSCLCQNGGTCDPVSGHCACPEGWAGLACEKECLPRD
VRAGCRHSGGCLNGGLCDPHTGRCLCPAGWTGDKCQSPFAPGLSWPTDPHGPLEASAALIFLQACGAGLERPV
PSAAAARLALPATTSLGPAAVPLASLAPAASRPAHPAALGRTVRRCASVPVRTRPATLPPGPAHVLLATTAPAAS
NDVRPGGMGQAVNSCVGVSTGAAVMRPRGPAAAPLGSSGRTATSPVRRASAPTAPTCTVGVGRGRPATL

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FIGURE 1726

CTCGGGGTAATGCTCTTCTCCAAACTGTTTTTCGGAAGCAGCGGTGAACGGGATCGTGACCGATGTGGACGTGCT
GGGCGCGGGCATCCGGCTGGTGACCTGCTGGTGGATCGGGACGGGCTGTACAAGATGAACCGCCTGTACCTCAC
CCCCGACGGCTTCTTCTCCGAGTCCACATGTTAGCCCTGGACTCCTCCAGCTGCAATAAGCCGTGTCCAGAGTT
TAAACCTGGTATTGAAACTGACCTGAATGACGCTGCATATGTACTTTATACCACCGTTTGTAACGTGGGTGCCAC
AGCCCGGGCTGTAGGTCGCCCAGCCTTTTTTTGGGAGCGATGGGGAACAATGACATGAATGGGATTTAGACGACA
GGCAGCAGGTATATTGTGATGGGCCACATCTACCATAAGAGACGGCAGCTCCCTACAGCTCTGCTCCAGGTCCTG
AGAGGCCGCTCCGTCCAGGGATGGACTGCTAAGGAGCAGCAGCAGCTATGTGAAAAGGTTTAATCGAAAAAGGG
AAGGGCAGATTCAAGGTGCAGTTCATACCCAATGCATTTGAAACAACCATCCTGGCATTCTGAGCCGCAAGAGA
CTTGGACGTCGGCAACAAGACATGAAAGGTCTACCTTCATGTAATGGGTCCTCCTTCAGAAGAGAGCCCTCAGCT
ACTCTGTGAATGACTTGCATAGCTGCAACTGTAATCTCGAAGGTGTCACTTTGTTATTTACAAGATGCTTCTTAA
ATGGGCTGCTCCTGAGCCTCAGTGTCAAGGTGATTCAACTGTTGTGCCAGACAGTGATTTACACAGCTCAGATAA
CTGACCTGTCTAGTTAACAGATCACTGCTTCATGTTTTCAAATATTTTAATTTAATACATTCTTTAGTAGAAATA
GTCCACAAAAACATTTTCTTGAATTTAAATATACAACCTTTATATCATGTATCAAACCAGATTTTATATTCAAAC
GATCACATTTTAAATTCTGTACATAACAGTAAGCGCACTAGTCAAAAGACATTTATGTTTGAAATGTCATTTAGA
TCAAACACAAGGGTCAAAGCCCAGGACAAGTATTAAAGTTTTTATACTTAAAGAGTACTAAAGGGCCAGTGTGCAG
ATGGGTGGATTAAAAAATAAATAAAAAATAAAAAATAGTACTAAAGGGCTTACTTCAGGCAAAAGTGTTCTGACG
TACCAAAAAGTAAGATATAGTTTATTTTCATGCCTCCCTGCTCCTAGTAATGTATGTTTTGTGCTGAACTGGCAG
CTATCCCAATGTGAAATGTATTTTGGATGTATCTGGTGTCAATTTTCTATTAAAGACCAAGTATAATGTTTGTGTTG
TAAAGCAATAAATCTTGACTTGAAATCAGATCTTGATGCACCTGTTTGTGTTTTGTGTTTTAGCCCTACTGAGCCCT
AAAGGTTTGAGAAAAAGGCTTTCTCAAATTCATCCCCAACCTTGGAACCAATATTCACCAATGACGGCTCACA
AGCAAGCGAATTTTAAACATTTTTCAGTTGGTTTTTAAAAAGGTTTAATTGGCCGGG

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FIGURE 1727

LGVMLEFSKLFFGSSGERDRARCGRAGRHPAGDPAGGSGRAVQDEPPVPHPRLLLPSPHVSPGLLQLQ

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FIGURE 1728A

TTTTGGCTGCCTCTGTCGGTCTGTTCAAGTTACACGTGAACCGCCGACGGAGACCCGTAGTGGGGGAGGCGGCGG
CAGCGTTAAGTGAGAAAGGAAAAAGACAACGAGGAAAAAGGAGGTGTCCGGGTAGGGCAACGCGGCGACACCCG
AGGCCTGGTGGTGGCGGCGGATCGAGATATTCAAGGCTGAAGCAGCTACGGAACGGCAGCGGCGGCGGTTCGGACA
AACTGACTGACCGAGCCGGGTGGTGGCGGGAGCAGCGGGAGCAGCCGGAACGATGCCGGCCGTGAGCCTCCCGCC
CAAGGAGAATGCGCTCTTCAAGCGGATCTTGAGGTGTTATGAACATAAACAGTATAGAAATGGATTGAAATTCTG
TAAACAAATACTTTCTAATCCCAAATTTGCAGAGCATGGAGAAACCTTGGCTATGAAAGGATTAACATTGAACTG
TTTGGGGAAAAAGGAAGAAGCTTATGAATTGGTTTCGTAGAGGTTTGAGAAATGACTTGAAGAGTCATGTGTGTTG
GCACGTTTATGGCCTTCTTCAGAGGTCAGACAAGAAGTATGATGAAGCCATTAAGTGTTACAGAAATGCACTAAA
ATGGGATAAAGACAATCTTCAAATCTTAAGGGACCTTTCCTTACTACAGATTCAAATGCGAGATCTTGAGGGTTA
CAGGGAACGAGGTATCAGTTACTTCAGCTTCGACCTGCGCAGAGAGCATCATGGATTGGTTATGCTATTGCTTA
CCATTTATTAGAAGATTATGAAATGGCAGCAAAGATTTTAGAAGAATTTAGGAAAACACAACAGACATCCCTTGA
CAAGGTGGATTATGAATATAGTGAACACTCTTATATCAGAATCAAGTTCTTCGGGAAGCAGGTCTCTATAGAGA
AGCTTTGGAAACATCTTTGTACCTATGAAAAGCAGATTTGTGATAAACTTGCTGTAGAAGAAACCAAAGGGGAAC
TCTGTTGCAACTATGTCGTTTGGAAAGATGCTGCAGATGTTTATAGAGGATTGCAAGAGAGAAATCCTGAAAAC
GGCCTATTACAAAGGCTTGGAAAAAGCACTCAAGCCAGCTAATATGTTAGAACGGCTAAAAATTTATGAGGAAGC
CTGGACTAAATATCCAGGGGACTGGTGCCAAGAAGGCTGCCGTTAAACTTTTTATCTGGTGAGAAGTTTAAAGA
ATGTTTGGATAAGTTCCTAAGGATGAATTCAGCAAGGTTGCCACCAGTCTTCAATACTTTAAGATCATTATA
CAAAGACAAAGAAAAGGTGGCAATCATAGAAGAGTTAGTAGTAGGTTATGAAACCTCTCTAAAAAGCTGCCGGTT
ATTTAACCCCAATGATGATGGAAAGGAGGAACCAACCAACATTACTTTGGGTCCAGTACTACTTGGCACAACA
TTATGACAAAATTGGTCAGCCATCTATTGCTTTGGAGTACATAAATACTGCTATTGAAAGTACACCTACATTAAT
AGAACTCTTTCTCGTGAAAGCTAAAATCTATAAGCATGCTGGAATATTAAAGAAGCTGCAAGGTGGATGGATGA
GGCCCAGGCCTTGGACACAGCAGACAGATTTATCAACTCCAAATGTGCAAAATACATGCTAAAAGCCAACCTGAT
TAAAGAAGCTGAAGAAATGTGCTCAAAGTTTACAAGGGAAGGAACATCAGCGGTAGAGAATTTGAATGAAATGCA
GTGCATGTGGTTCCAAAACAGAATGTGCCCAGGCTTATAAAGCAATGAATAAATTTGGTGAAGCACTTAAGAAATG
TCATGAGATTGAGAGACATTTTATAGAAATCACTGATGACCAGTTTGACTTTCATACATACTGTATGAGGAAGAT
TACCCCTTAGATCATATGTGGACTTATTAAAAC TAGAAGATGTACTTCGACAGCATCCATTTTACTTCAAGGCAGC
AAGAATTGCTATAGAGATCTATTTGAAGCTTCATGACAACCCCTTACAGATGAGAATAAAGAACACGAAGCTGA
TACAGCAAACATGTCTGACAAAGAGCTAAAGAAGCTACGTAATAAACAAGAGAGCTCAAAGAAAGCCCAGAT
AGAAGAAGAGAAAAAAATGCAGAAAAAGAAAAGCAGCAGAGAAATCAGAAAAAGAAAGGATGATGATGATGA
GGAGATAGGAGGTCCAAAAGAAAGAACTTATTCCAGAGAAACTGGCCAAGGTGAAACTCCATTGGAAGAAGCTAT
TAAATTTTAAACACCGTTGAAGAAGCTTGGTGAAGAACAAGATAGAGACTCATCTTTTGCCTTTGAGATTTACTT
TAGGAAAGAAAAGTTTCTTTTGATGCTACAATCAGTAAAGAGGGGCATTTGCTATTGATTCTAGTCATCCCTGGCT
TCATGAGTGTATGATTGCTCTCTTTAATACTGCAGTGTGTGAAAAGTAAAGATTTATCTGATACAGTTAGAACAGT
ATTAAACAAGAAATGAATCGTCTTTTGGAGCAACGAATCCAAAGAAATTTAATGAAACTTTTCTGAAAAGGAA
TTCTGATTCATTGCCACACAGATTATCAGCTGCCAAAATGGTATATTACTTAGATCCTTCTAGTCAGAAGCGAGC
TATAGAGTTGGCAACAACACTTGATGAATCTCTACTAACAGAAACCTCCAGACATGTATGGAGGTATTGGAAGC
CTTGATGATGGTAGCCTAGGAGACTGTAAAGAAGCTGCTGAAATTTATAGAGCAAATTTGTCATAAGCTTTTCCC
TTATGCTTTGGCTTTTCATGCCTCCTGGATATGAAGAGGATATGAAGATCACAGTTAATGGAGATAGTTCTGCAGA
AGCTGAAGAAGCTGGCCAATGAAATTTGAACATCACTAAACAAGCAAATGGAATGACTTTGGACCATATCTAGTAT
ATAATATTTTTGTCACGCACCTGCTGCATTGCTCTAACTTACACAGAATGAGAGGAGTAAATGTTCTTGCCTTCA
AATAGTGTTTTACGTTTTTTATCCTGCTGAAAAAGTATATATAAAATATCTAACATTACAGGATAGAGGTTCACT
TTCTTAAAAAATTAAAGCTGCTAAAATTTGAGTGGTTAAAAAAGATACCTTATCCTATTCTCCCAACCCACCCAT
GTTTTTAAACTAATTTATATAAAATCTGGAGGCTGTTACAGCTAACAAAGCAGGTGTGTGGCAGAAATATTACTT
TAAATTTGCTTGTGAGATTTTACTATATCTCAGACAGCATAAATGCTGTTTTAGCACTGGATTCTTTCCTGAG
CACAAAGAGTTGTTGGGGCTTTAGCATCTGACTGATTTTGTTACGGGGTTGATTCTGACCATAGGAAGTATGCAA
TGTGAATCACTATTTACAGAGAAACCTACAACAGATGCTTGATGTTGTAGAAACTGGGACATATAGATACCAAGC
AAAATTATAAGAAACCTATAAGGTGTTCAATACGCTTGTTGTTTCCAAATTCCTGTACATGATCAGTTTGGTGT
TCTTGTACCACAGTTTTTAACTGAAGGAACCGTTGTAACAGTCTCAATTTTAACTAAAACCTGAAGAACTAAAA

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FIGURE 1728B

CAACAATGCAAACCTTTTCAGCATTGTTTGGCCAAACTTGTTAAACTGTAATGCAAGAACCAAATGCACTGTGAT
GTGGCACCACCTAATTAGCAAGCATGAATTTTTCACCCAAGAGTGAAAAAGGAAAATCTACCATGGCTTGAAGT
TAAAGAGCAGAACTCCTGACTACCATTCTATGACTGATCAAAAGACTAATAGTTAAAAACCTCAGCAGGCCTTGT
TCACGATATGCAGAAAAAAAAGTGCTGCAGTTTAGATACCTCTGGAATTTTCCACAGTGTACAGGTTTGTAAAT
TTTGAAGCCCTACATTTCTAAGAATATATTTCTTGCTCAGTTGTTTCAGGCAAGCCCAAGACTTTGTAATTTTT
AGGGCCCAAGATTTTTTTTTTTTTTTTTTTTTTCAAATAACAGACCAGCTTCTTTTTCTTGCAAGTTACAGATGT
TTTTCCTTTTGTGTCAAACATAAGGTACCAATATGATGCAATAAATTGTTTGAAGAACAGTTGTGTGAAT
ATTTCAACTAATCTGTGTTGGGCTTCTGTGAAATACACAGGTGGAAACAGAGGTGCAAGCCAGAGGCAATGTAAT
GCTGTAAGGCTAGTGCAGATGGGAGCTTTTAGAAGGGGCTAAGTGCTGGTGTGAGGGAATTCATAATGAA
AGAATGCTGCTCCTGCATTAAAGATTTTCATTGAGGGCAAGGCTGGTGGCAGGTACTATGAATGTAATTCATAAT
AAAAAGGAAAACCTAAAACTATTTGATTTGGGAAAATGAGCCTTAATTTGTTAAACCTATACACTGAGAACTA
TCAGGCTTAATATTCTCATTGCATTGCAAGATCTGAGCAAATAAGATTAAGTAAACAAATCAATTGTATA
ATAATTGACCTTTTTGTGGAACATGTAGTTTATAGAAAGTATACTCTAAAGGGAATTTGCCGAAGACCTTTTAC
GATTGAACAGTTGTGCTACAATCACTTTTCATAGTACATGACCTGCATTCCACATCTCAGTCTAACAGTTTAG
TAGTGATGTAAAGAGAAGTACAAACCGAACTCCAGTGCTTTGTTATGTTTTATTAAGTGGCCCTGTCTCAGGAAC
ATCTTAACAGATGGCAAAAAACAAAACTTTTTTCAACTCCTATGAGTGGCAACTGAAGTTCTTATTGTTGGG
AAAGAACACTAGTCTACCTCTGCCACTAATGAGGTGTTGGAGGAGGTACCAGCCATATAATAGGGGGTGTATG
TGTGAATTTGTTTAACTCTACTGTATATTGAAATGAAATTCATTTATTTGTCTTGACAATGTTCAAATGATGT
AGATTGTCTTAGAATGAATATTCATAAGTACTCAGAACTCTTAAGATGCAGATGCCACCCGTGAGGAGCTAAATT
CCTAATGTGTATTGTATTCCAACCAATTTTACTGGAACATTTGAATAAATCTTTTATTTTCTTTCAGGTTTACT
TGATAGTGGATACATTGGTGTGAGAGGACCTTGACTGGGTTTCAATTTATGTCCAGACATCACCCCTGAAACACTG
TACTGTACTATCTTGCTCTGAGTAGTATCAACTGGATCGTCTCATATTTGCCTCATTATCCTATTAATTTCAA
TGATACTGTGGGGGAAAAACAGGGTTAGAAAAACAAGTGGAAGAAATGGAGTGATGTTGTAATCTAAACAAGTGC
CTTATGTTTATTGCTAAGAACTGGTGTACCAACCCCTTTTGAGAAGAAAGGGTCTCTTGACCTGTATTAACATAG
GAAAGTAAAGTTCTTTTTGTTTTCTTTATAAGCTACTCTTGTCATTTCTCGTTGAAAACTAAATCTGACTAG
GTTAGTTTACTCAGCTTTAATTAGATAGTTGAGTCATATATTTTCAACATTTTCTGTATCGTATTTATTATGCA
CAAAAATAAAGTGTGATCTCTAAT

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FIGURE 1729

MPAVSLPPKENALFKRILRCYEHKQYRNLKFKCKQILSNPKFAEHGETLAMKGLTLNCLGKKEEAYELVRRGLRN
DLKSHVCWHVYGLLQSRSDKKYDEAIKCYRNALKWDKDNLQILRDLSSLQIQMRDLEGYRETRYQLQLRPAQRAS
WIGYAIAYHLLLEDYEMAAKILEEFRKTQQTSPDKVDYSESELLYQNOVLREAGLYREALEHLCTYEKQICDKLA
VEETKGELLQLCRLEDAADVYRGLQERNPENWAYYKGLEKALKPANMLERLKIYEEAWTKYPRGLVPRRLPLNF
LSGEKFKECLDKFLRMNFSKGCPPVFNTLRSLYKDKEKVAIEELVVGYESLKSCLFNPNDGKEEPPTLLW
VQYYLAQHYDKIGQPSIALEYINTAIESTPTLIELFLVKAKIYKHAGNIKEAARWMDEAQLDTADRFINSKCAK
YMLKANLIKEAEEMCSKFTREGTSAVENLNEMQCMWFQTECAQAYKAMNKFGEALKKCHEIERHFIEITDDQDFD
HTYCMRKITLRSYVDLLKLEDVLRQHPFYFKAARIAIEIYLKLHDNPLTDENKEHEADTANMSDKELKKLRNKQR
RAQKKAQIEEEKKNAEKEKQQRNQKKKKDDDDDEEIGGPKEELIPEKLAKVETPLEEAIKFLTPLKNLVKNKIETH
LFAFEIYFRKEKFLMLQSVKRAFAIDSSHFWLHECMIRLFNTAVCESKDLSDTVRTLKQEMNRLFGATNPKNF
NETFLKRNSDSLPHRLSAAKMVYYLDPSSQKRAIELATTILDESITNRNLQTCMEVLEALYDGSGLGDCKEAAEIYR
ANCHKLFPYALAFMPPGYEEDMKITVNGDSSAAEELANEI

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FIGURE 1730

CACAGAAACATGATGTGGAAGTGTGGAACGGAACCTCCAGACCATCCTGTGTGAGTTTGAGACCCTCTACAAAG
CTTTCTCAAACCTGCAGCCTCCCGCAAGGATGGAAAATGAACAGCACCCCGAGCGGGGAGTGGTTACCTTTTACT
TGGTCAATCAGGGGGTTTGTGTTCCAGGAAGTGTAGGAAGTGCCACGGACGTACCGCTTGCTCGGAAGCCTTC
GGACCTGTATTGGGAACAATGTTTTTGGGAACGCGTGCATCTCTGTGCTGAGCCCTGGGACTGTGATAACGGAGC
ACTATGGACCCACCAACATCCGCATCCGATGCCATTTAGGTCTGAAAACCTCAAATGGCTGTGAGCTGGTGGTGG
GGGAGAGCCCCAGTGCTGGGCAGAAGGGCGCTGCCTTCTCTTTGATGACTCTTTCCTGCATGCTGCGTTCCATG
AAGGTTGAGCAGAGGATGGCCACGGGTGGTTTTTCATGGTGGATTGTGGCATCCAAACGTGCGAGCGGCCGAAC
GGCAGGCTCTTGATTTTCATCTTTGCTCCGGGACGATGAGAGTATTTCCCATGCTGGAGTCGGCGAGAAGGGCCGA
GGCGGGGCTGGGCAGACTGTGGTCCGGTCCAGTCCCTACCGGTGTTGTTTCCATGCTCAGAAACCTGCCTCAGC
GGAAAGCTCTTATTTGGGATTTTATATCATGTCGGGTCCCTCTTCCCTTGGTTATTGTAAATGGAACTTTTCG
GCTTGTATTTCTTAGATTTTTTTTTTTCCTTCCAATCATTGCTTCAGAGACTCCTTTCTGGCCTAACAGCGC
ATTCCTTTGATTGGTCCCTGAGTGACCAGAGACTTAGTGCCCTGTAAAGTCTGTCTTCTGTTGCTACTTGTTTTT
TTCAGTGCTCTGAAATAGAGTAACTAAATGGTTATTTGTCTGAATATAATAATGTAAACTTCTTGTGGTCATCT
TAAAAAAAAAAAAAAAAAAAACTAAAACTGCAAACAGAGAGCTAGAGAACTTGGCCTCTGATGCTGGCACA
CTGGGGACCCTTCAGCCACCTGACGGCAGGGGACAGTCTGCAGCCCCACACCTGACTGGCTTCAGTAGCCAGG
TGGAGGGGCTGCCAGACACAGTCAGGGTGGCACACAGTGTCCAGGCCAGGGATACTGTCAACATCGCTCACCTC
ATTCTAAACCTTGTCAGGTCCCTGATGGCAAAGCATTGGGCCAGTAGGACTGGAGGCTACTCTTTAAACATGGC
TTTCTGCAAAGCTGAAGCTGGTGTCCCCCAGCACCAAGCTGCGGCTCACACAGATCAGCCACGGAACGTGTGAT
CCGCTTACCTCACTGCCTACAGAAGCCCTACTGCCAACTGGGCTGGAAAATTCCCAGTTTTAGGTGTTTTGAG
TCCACAGTGATGAACGTTAAGGCCACCAGGTTGGCTGATAGGAGCTGTAGGGGGATAGGACCGCGCTCACCAGC
GACATTTGGGGAAAAGCCTTTCTCTGGCAAACTGGAATAATAGATCTGACCAAAGTTTCTGTTTTGCTTTGGAGT
TCTGTTGCCTATGTTTTTTTTTTTTTTCATTTATTTGTCTGTACATAAATGTTCAAACACTAGACTTGGAGATAGT
GGAAGAGTTGGCCCTGTGTCTTTGTCTATGGCACAAGGTGTGCACTGCGTGACAATGACCCAAGCCAGTGTGTGC
TAGTGAGGAGACAGAGAAGACCTACATGCCAGAGGACCCGTGGCCGTGTGCTGGTTTTCTGGTCTCCTGTGAA
GAACATGTGGATCTCTTCCCGAAGGAAAAGGTCCCAGGAGACAGTTTGAGGCACTCACTCTAGAAATAGCCTGT
GTTAGCTGATGTGTGAAAGCGTAGCCGGCCAGCCACACTAGAGATGCCTTTTCTGAATAATGTATTATGAGCAGT
GTCAGATTTATAAAGCCGAGGAGTGGTTTTGGAATATACAGCTGGTTCGAGGTGCAGGTCCAGTGTTTAGATCCAA
ATGGAAAACAGCAGCTTCTAAGAGGTACAACCTGTTGGAAGAAAACACAGTTGAAATGCACCAGGCAGGTACTAGC
AAGTGTGCAAAGAGCACGTCTACATTTGAGTAAATGTCTACACAGATATTTGTGCTGATGAGAATGCAGGAAA
AGGCAGACATTTCAAACATACCTGAAGTCTTTTTTACTCATTATCTTGTTAAAGAATCACTGAGGTGCATGATTC
TACACATCGTGAAGTGTCTGCTCTGCGTTTACAAAACCAACAGCCCGCGCAGGTACCTAGCTACCTGCATTTCATG
TGACATGTCTGGGGAACAGAAGATAAATAAAGGATCTTGCTGAAAACAGAAAAAAAAAAAAAAAAAAGAAAA
AAAAAAAAAAAAAAG

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FIGURE 1731

GAATTCGGCACGAGAATGAGCCCCACAGAATAAAGGTTTTTCCTCTTGCTGTGGCCTACTGGAAGCCTTCCTAAC
TCTATAGCTGGTAAAGTAGAGCAGAAAGGGCCAGAATGGCTTAAGATGGAGCTAAATCCCTATAGCATTCCATTT
TCTGCTCTTGCTCTTGAACCTAGAAAGGCTTGCCCATATATCCTAACAACTCTGTTCTCTGAGCTGTTAGGCCAAT
CCCTGGTCTCAAACCTCCTGACCTCAGGTGATCCACCCACTATGGCCTCCCAAGGTGCTGGGATTGCAGATGTGAG
CCACCGTGCTGGCCAGAAAATCTGGATTCTTATTCCTAGTTCTTCATTTCTGTACATGCACCTAGTTGACATT
ACATCTACATATATTAGCTTTTTCCTACATGAGCCATCTATTTACTTAGTAACCAGTGTCTTAATGAAGTATTT
AGTCTTGGGTTTTCTTGTAATAATTTCTCTGCATTCCCTAGACAGTGTACTATACATGAAATATTCTTGTTGACCTA
GTAATTTATATTATTCCATTTAATTCTTAAACCTATGGCCTTTTTATTGAGCACACTCTTAAATCATTATTTGGC
TTGTAAACATTATCTGAATTGTGGCTACAATCCTCTTTAAATAATCTAGGAAAAAGAAAGATAAAGCTTACAT
TTTCACAGTTTTGGCTCTTAAACACATTCCACAAATGCCATTAGAATTTATTTGTTTTAGGCCAGTCAIGGTG
GCTCATGCCTGTAATCCCAGCAATTTGGGAGGCTGAGGCAAGAACTGCTTGAGCCCAGGAGTTTGAGACTAGCCT
GGGCAACATAGCAAGACCCCTGTCTCTACCAAAAAAAAAAAGTTTTATTTGTTTTAGAGTCATTTAATGTGTTTT
TATGCACAATAATAGTGGGAGGTTGTTTTGTTGCATTTGTTTGTTTGTTTGTTTGTTTGTTTGTTTGTTTGTTTGCTTTCCAT
GTGGGAAAAAGTTAACATTGGAAGTGTCTTAGTAAAAGATTTTTTCAGGCTGGGCACGGTGGCTCATGCCTGTG
ATCCCAACACTTTGGGAGACCGAGGGAGCTGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATGG
AAAAACTCCATCTCCACTAGAAATACAAAAGTAGCCTGGTGTGGTGGCACATGCCTGTAATCCCAGCTACTTGGG
AAGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGTGGAGGTGTCAGTGAGCCAAGATCACGCCATTGCACTCCA
GCCTGGGCAACAAGAGTGAAACTCCGTCTCAAAAAAAAAAAAAAAAAAGATGTTTTTTCATTTTTTTCATGTTATC
TATCCAAGCACTGTTCCATGGTCAGCAAGTCATATTTATAATGTGGATTTTCCAAAATAATTATTGAATACAGC
TATTTCTATGGCTACTTTTAGTGTTTTTGTTGGTATGTGGTGTGGGAGTGTATGGAATTACCAGTATCTTAAATT
TTCAAAGGAACCTTGGAAGTCTATCACTCTAAATGAAAGTCTGTCACCTCTACATGAATTATGTGCTCAAATTTGA
CCAACCTCAGTTTAAGACACAAAACAGTAATTTGAAGAAGGAAAAATGAAGAGAGTTTCTAGTTTAATGGGTAA
TTTTTGTTGTTGCAATAGTAAGTTTAGTCTTCTTATAATATTTCTAAATGAAAAATCATAGGTATTTGTTACCAT
GTGTGAAGATTACTTTGTTAAAGCAAAAGTGGTCTGTGATGCTAAATGTTAATTACTGATTTTATATGTTT
AAATCACGCCAAACAAATTATGTCTGTGCCATCCAGGGTCTGTTGTTAATCTTTTTCTGAGTACTTGGATTGGGA
TAAAGGGCTTGACTATGCACTTTTTATTAATGAATAAATAGAAAACGTTAGTAACACTTTTGTTTTCTGTTTG
GCTTTTGTTGGGAAGAGAAGCAAGCATCTTTTGCTAGTAGATGTTAACATTGTGTATTAAACAGTTTCTTTGTAA
GACCTAACTAAAGACATTCCCTAAGAGAGAACTTAAGTTTTAAGAAAAGTTGTGAGAAAAATATTCATAAAATATG
CAGTATGGGGCCAGTATTCAGAAGTAGAGTTTCTCTCTTGGAATTAGATTGCAGTCACATTTCTTTGGTTATTT
TCTTTCTCTCTCTCTTCTCTAGAAATACCAGGTAAAATAGACATTTACTTTGAGGGACTAATATCCAATAGTGTTAA
TTATTTAAGCAGATATATCTAGCTCAAAAGGAACCAGACATGTCACTGTACCAAAAACACACAAAAGTGAAAATT
TGCTTCTGTTCTGTGACCTAGAATGTGTCCAGACATTAAAGATCATGAATACTCATATACATGTAAAAATAGTAA
CACTGCTCTGGCATGATTTTGACGTCAGTGTATGTAATAACTTCAGTGTATATTTAAATAGATAAATTTGT
GAAATAACAATTTCTTGAGACAGTCAACTTTTTATGATTTAATCTAAAGATTGTCATGTACATGTCAACGGATA
TCTGAATCCTCAGTGAACTGTTAAGTTTTCATTAATGACTCTGCTGCAATACTAGTTTTCTTCTCAGAAAATG
GAATTCAAATAAAATAAGTTTTTTGGTCTTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1732

MHLVDITSTYISFFLHEPSIYLVTSVLNEVFSLGFLVKFLCIP

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FIGURE 1733

TCAAGGGCCTACTTTATGGCAGACATTGTGCTAGTGCTTTTATTCTAACTTTTATTTTTATCAGTTACACATGAT
CATAATTTAAAAAGTCAAGGCTTATAACAAAAAGCCCCAGCCCATTCTCCATTCAAGATTCCCCTCCCCAG
AGGTGACCACCTTCAACTCTTGAGTTTTTTCAGGTATATACCTCCATGTTTCTAAGTAATATGCTTATATTGTTCA
CTTCTTTTTTTTTTATTTTTTAAAGAAATCTATTTTCATACCATGGAGGAAGGCTCTGTTCCACATATATTTCCAC
TTCTTCATTCTCTCGGTATAGTTTTGTCACAATTATAGATTAGATCAAAAGTCTACATAACTAATACTCACAGCT
GAGCTATGTAGTATGCTATGATTAAATTTACTTATGTAACTTTTATTGTCTTTGGCATTAAACAGTGTTTCAAAAA
ATTTTCTGTGTATACCCATCAGTGATTCAATCCCAAATCTTCTAGAAGCATAAGTGTCTCAATATATTAAACAT
ATTGAATAATCCTTGTTAGAGTTATCCTTGAGGAGTCCTTAGTGCTCCTTTATCCAATTTGTACTTGATGCCCT
CTAGGCAGGGTGTACAGCTAGCTGTTGCTCTGGTATTTCTTATAACCTTCTTGGGGATTTCTTTTACCTCCTGTG
TTAGACTCCTGTTTTCTGGATTCCCCCTTTTCCCTCTTTCTTGGTCTACTTTTTGTAGAACACAAGACTCTACTA
GCTTCCTGAGAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
TCATTGTCACTATTGAGAATCTAAATGGCCATTCCGATTCTTTCATCATCTTTATAATTTTACCTTCCTATTTCT
TTCCTGTCCTTTTAAATGGAGTTTTGGGAGAGAGCAGAGGTAAACATGATTTGAAAAAGCCATGTCTGACCAGAAA
TTCTGTGCTGGCAAGATATGTATTTACCTTTAGGG

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FIGURE 1734

MPSRQGVQLAVALVFPITFLGISFTSCVRLLFSGFPLFPLSWSTFCRTQDSTSFLRXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXETRSHCFIVTIENLNHSDSFIIFIILPSYFFPVLLMEFWERAENVMI

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FIGURE 1735

AATTTAAAAATTGTTTAATGCACTGGAAATAAAATTGGACATATTTCACTGTTTAAAAAATCAGAAACAAAACAA
AGCAAAACCATGAGGGAAAAAACAGCAAATAAGCAACAGGGGAAAAAGCTATGAAAAAATATATTTGTACTG
AATACACATACAACTACATCCACATGAAAGATTAATATCATCAAGTAAGAAAAATACATAGTTTAACTACAA
TGCTGAAAATATAAAAGGAACCTGGTAGTTCAATGGGGATGGAGAAAACAGAGCATTCTCTGAGAGCAGAGATC
TTGTCATTATTGCAATTAATGCCCCAACAGGTTAAATGTGGAAGAAAGTATGGAGGAAATAACCCAGCCTTCCT
CATACCACTGGATTTCCACATCACCTTTTAACTTATGCTTGAGCTCCCTTTTGAGAAAAATATTTAAAAACAAA
TTGGCTATGTAACAAATTTGTGTGTGTGTGTATATATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGC
TTGAGAAAGTGGTTTTTCAAGATGTATGTGTACAGTACACACATGGACACGCTTCAGTCCTCTGACTTCCCATGT
GCTACCTCATGTGTTTTCTTCTCATGAGGATTTGCAATGGATAGTTGTACAACCTGGGGACTGTCAGTGACTCA
TTGGTATCAGCATATGCTAAAGAAGCTCTTGAATCCAATCTTGAAACCTGATCTCCCTTCGTCAACATTCCCCAA
TACCAACTGGCCCGTTTACCCATACAAATGCACAGTAAAGGGAAGAACAGCGGTATTTTTCTAGCCAACCTGAC
TCTATCATTGTTTAAATGTTTGCTGGTTTTTTCTGGTTTTGTTTTGTTTTAGAGCAGGGGTGGGAGTGGCTGTA
ACTTCACAATCCTAATACAGTAAATGTTTTGCATCTTCCATGTTTTATGCAAAAACAGACATTTAAATCAATAAA
TAATTGTGCCCTAGACTGAAGGTTAATGTTTAGGAGAGGAAAAAATTGTTGGAATTTTTCTACATTTTTTTGT
GAAGAATCTTTTTTGGAAGGAAGGATACATATTTTTGTTGTGTAATATTTCTATTTTTGAATGCATTTTATTG
GTACAAGACTGTTTTTTTGGTGAAGACATTATTTAAAAAACAGTCTTGTAACCAATAGTCGAC

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FIGURE 1736

MDSCTTWGLSVTHWYQHMLKKLLNPILKPDLPSSSTFPNTKLARLP IQMHSKGKNSGIFPSQLTLSFV

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FIGURE 1737

GGGGGATCATAAATGACAGGTGTGTGGAGGTCATTGCAAAGGAAGGACAAAACCTGAAAGAGCTATATTTGGTGT
CCTGTAAAAATCACAGATTATGCACTGATAGCCATTGGGCGATACAGCATGACAATAGAGACTGTGGATGTCGGAT
GGTGTAAAGAAATCACAGACCAAGGAGCCACCCTGATTGCACAGAGCAGCAAGTCTCTGAGATAATTTGGGGCTGA
TGAGATGTGATAAAGTCAACGAAGTGACGGTGGAAACAGCTGGTGCAGCAGTACCCCCACATCACCTTCAGCACCG
TCCTGCAGGACTGCAAGAGGACCTTGGAGAGAGCCTATCAGATGGGCTGGACCCCCAACATGTCTGCCGCTCCT
CCTAGCGCTCCTGCCTCGCCTAGTCCACTGGGATCATTGAGCAGAGCAGAGGAGAATTGTACATTTGGGGAGCTG
ATCTCTCGGAAGGGTTTTAACTGTCACTGTCTGTGTGTGTTCAAGTATGTGTATTTGTGTCTTGTTCGATACT
GCATACCAAAGTGCAGTTGTCAATTTGTTCCCAAGTGAGCTGGCTTTTTTCTTAGAAATTAAAGATTATGAAAG
CCACAACTTTTTAGTTTTTAACTTCAAAGGCTTCTTTCTTTTAAAAAAATTATTTTTAATATAGAGTCAAA
AATTGGATGTATTATTCTGAGCTTCTAATTGCTGCCACTTGGAGATGTCCAAGTAAGAAGGCCTTCTTTTTACA
TGGGATGAATTGTGCACCTTCTACTGATGATGACTACAGCAGAAGTGATGTTATACGTACAGGCACTTACACTCTC
TCACATATTCACACGTATGCACATCTACACCAGGGCTCTGATCTACTCTAGATCGTTTCCTGACAGAGAAGCCTT
CTTCCAGGCCACTAAGGTAGCATGTTATCCACTGTGGCACTGCCTAACTCCGTGTATCCTCGGGTGGCCAACTTG
CTATCTGGTGGGTGACTTGGGGACTAGAAAGAATAAAGCCTTTTCTAAATTTGTTATATAGAGGCAACAGTCTGA
ACTCTCCTGGCCAGCTCACGAAAGTTAATTATACATTATTCTACAAATGCATTCTGTTGAGCACTAAATATTTTA
GTTGGTTTTATGTTAACATTGTGTTAGCTTTTATTTCTGGATAGTAACTGGTCAGGATATATTTAATGATATT
TGAAACTAATCTTAGCATTGAAGCCACCAATGTAATTAATGGTGTGCAGTTATTTTAAAACTACAGATCATTTT
ATTATTTTCTTAATTTTGGTAATTATTAAAGTCTATTTCTGAGATACGAGAGGGTAGTCACATTAATAGAAGATT
CATGAGTGAGATATAAGTAGACAATCTTTCTACTGTTGTTGCTCTTTTGTCTTGGCTTGGGTCTTGAACAGGT
TTTTTGGATATATGCATGTTGTCAATTTGGACTAGTTCTCATGCTACTGCAAAGATCTATTGCTAGCTAATATAT
GAGTTAAGAAAAGAAAATTAGAAAATCTGTTTCAATGAAATTCTGTTTACACTTGTGAGAAATAAGCATTCTTTGT
TTAATTAAGGATTGCCAGCTTCAGTTAAGACAAGACCTATCAGTAAATGAATATATGTTTTGATTTAACACATCT
TTACAATTAATTCATAATAGGGACTCAGGCTCAAATAACTGTTCTGTGTCTAGATTTATAATGAGGACATCAGG
GAGCCTTTTTAAGCTAAAGAGTGATTATCTTTACAGTAGAACTAGAAAACAAAACCCCTAAGTTGTGAAGTTGCTA
TTTATTTTTCCCTGAGTGAAATATAACTGTTATTTGGTCTTTAACAGATATACTGAGGTTTGAGTTTCACTTTCTT
TAAGTCTCACATTGCTAACATGACATTAGCTGTAAGAAACAAGATAGCTTTACATTTGAATGCCATTTACTGATT
TCTAATGATTCTCTTTTTTTGTAAACAAGTCTTTTCTTTGATTATGTCAACATGTTTCTGATGTGGCATTTTTGT
TTAATCCCAATCGGTTAGGAAAATCTAGTCAGTAAGCGCCATGAGTATTCTTCCATAACTAAATGGGTTTCTA
ATTTAATTTGAAGGGAATAAAATTTGTGTAAGAAAAAGCTGTTTAAACATTAATAAACTATATTTCTTCTTACAC
ATTGAAGTGTATCATTTTTCATATCCACTTCCCCACCCTGAAATATCTTATTTTACAATATTTTAACTGATTTTT
AATCCAAAATAATTTATAAGACAGTATGTATAGTAATAGTAGCTTGAGTGAATATGCAAAAGTTTAAATTTTTAT
ATATGTCATACTATATTTTAAATAGTTAAAAAGACAAAAGAAGGGAGAGCCATCTATGATATAGATGGTACCAT
TTCAGTTCAAAGTTGTAATAACCTTTGGAGTGTTACAGTTTGGTTGTCAAATGGTTTCAGAATGTATAATTGATT
TTTTTAAATGTTGCATTGTTTGAATCTAAAGTACAGCACTATAACATGCTTTAGCTTGGGGGGTTGGGTGTGGGG
TGGGGACTTGCACCTATTCTCTAAAAATGTTGACTAATCCAGAAAGCCTGATGCAACATAATCTGGAAAACTGCTT
TGGTACATTTGTAGAAATCCATAGAAATACCATATCCAGCCTCAAAGCATTAAATCTCNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNGCCAGAAAAAGCATCACCTTGAGTGGTCCTGTGATGGTTGTTGAATGTGTTCTCATTAGA
TGCTTTGAAATGAGGCTTAAAAATAATTTTCTGGGCAATATAGAGTTTCTTTTTTTTTGCTTAGAATGTCATAAAT
ACATGTGAACACGTTAATGCAGGGCTTTTTATTCTCTCCAAATGTCAACAGTATTTTTCAGAATAAAGACTATG
AAATATATTGCTGTAGTGGAAAAATCTGGTCTTTGTCTTTAATGTCTTTTGTAGTGGATAAAGAAAAATTCACCC
GGTTTGTAGTTTCTATATTTCTGTGAATCTTTGACCTTGCAATGGGTGCAATAAAAGAGAAAC

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FIGURE 1738

GIINDRCVEVIAKEGQNLKELYLVSKITDYALIAIGRYSMTIETVDVGWCKEITDQGATLIAQSSKSLRYLGLM
RCDKVNEVTVEQLVQQYPHITFSTVLQDCKRTLERAYQMGWTPNMSAASS

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FIGURE 1739A

TTAGAGGTCCTTTCTGCTTTATAACATTAGGTTCTTCTGTGAGGCCTTAAGCATTGCTAAACAGGTTCAAGTA
AGTTTAGTAAAGTTTCATTACTGCCATTGATTCAATTATCAAACCTGCTTTTGTACATATAAAGAATTCTTCAGAT
GCATGGTTTCTATTAAACAAGATCCAATGCCCTTCTTTATTTCCCCTTCAGTTCAACATCTAATATATAAAGATT
GCTCTGACTACTACGCAATAGGCCAAAAGAAGCAGTGAGACCTACAGAGTTACACCTGATCCCAAAAATAGTAGCT
TTGAAGTTTACTGTGACATGGAGACCATGGGGGGAGGCTGGACAGTGCTGCAGGCACGTCTCGATGGGAGCACCA
ACTTCACCAGAACATGGCAAGACTACAAAGCAGGCTTTGGAAACCTCAGAAGGGAATTTTGGCTGGGGAACGATA
AAATTCATCTTCTGACCAAGAGTAAGGAAATGATTCTGAGAATAGATCTTGAAGACTTTAATGGTGTGCAACTAT
ATGCCTTGATGATCAGTTTTATGTGGCTAATGAGTTTCTCAAATATCGTTTACACGTTGGTAACTATAATGGCA
CAGCTGGAGATGCATTACGTTTCAACAAACATTACAACCAGCATCTGAAGTTTTTACCACCTCCAGATAAAGACA
ATGATCGATATCCTTCTGGGAACTGTGGGCTGTACTACAGTTTACGGCTGGTGGTTTATGATGATGCTTTCTGCAA
ACTTAAATGGCAAATATTATCACCAAAATACAGAGGTGTCCGTAATGGGATTTTCTGGGGTACCTGGCCTGGTG
TAAGTGAGGCACACCCTGGTGGCTACAAGTCCTCCTTCAAAGAGGCTAAGATGATGATCAGACCCAAGCACTTTA
AGCCATAAATCACTCTGTTTCTTCCAGGTATTCGTTATCTAATAGGGCAATTAATTCCTTCAGCACTTTAGA
ATATGCCTTGTTTCATATTTTTCATAGCTAAAAATGATGTCTGACGGCTAGGTTCTTATGCTACACAGCATTG
AAATAAAGCTGAAAAACAATGCATTTTAAAGGAGTCCTTTGTTGTTATGCTGTTATCCAATGAACACTTGCAAGC
AATTAGCAATATTGAGAATTATACATTAGATTTACAATTCTTTAATTTCTATTGAACTTTTTCTATTGCTTGT
ATTACTTGCTGTATTTAAAAATAATTGTTGGCTGGGTGTGGTAGCTCACGCCTGTAATCCCAGCACTTTGGAAT
GTCAAGGCAGGCAGATCACTTGAGGTGAGGAGTTTGAGACCAGCCTGGCCAAACATGTGAAACGCTGTCTCTATT
AAAAATACAAAAATTAGCCGGGCATGGTGGTACATGCCTGTAATCCTAGCTACTTGGGAGGCTGAGGCAGGAGAA
TCGCTTGAACTTGAGAGGAAGAGGTTGCAGTGAGCCAAGACTGAGCCACTGCACTCCAGCATGGGTGACAGAGAA
AACTCTGTCTCAAACAAAAAATAATAAAATTTATTTCAGTAGGCTGGATTCTACACAAAGTAATCTGTATTTGGG
CCATGATTTAAGCACATCTGAAGGTATATCACTCTTTTCAGGCTATAATTATTGGGTAATCTTCATTCTGAGAC
AACTTAATCTATATCATTTACTTTGCAACAGAACAAACCTACAGCATTTTGGTTCCCAGACTAAGGGAATAAT
ATCTATATAATTAACTTGTTTCAATTTATCATTATGAAATATAAAATACTTGTCAATTTAAACCGTTTAAAAATGT
GGTAGCATAATGTCACCCCAAAAAGCATTTCAGAAAGCAATGTAACCTGTGAAGACCAGGGTTTAAAGGTAATTCAT
TTATAGTTTATAACTCCTTAGATGTTTGATGTTGAAAACCTGCTTTAACATGAAAATTATCTTCTCTGCTCTGTG
TGAACAATAGCTTTTAAATTTAAGATTGCTCACTACTGTACTAGACTACTGGTAGGTTTTTTTTGGGGGGGGTGGGT
AGGGATATGTGGGTAATGAAGCATTTACTTACAGGCTATCATACTCTGAGGCCAATTTTATCTCCAAAGCAATAA
TATCATTAAAGTGATTCATTCATAGAAGGCTAAGTTTCTCTAGGACAGATAGAAAACATGAATTTTGAAATATAT
AGAACAGTAGTTAAATACTATATATTTCAACCCCTGGCTGGTAGATTGCTTATTTTACTATCAGAACTAAAAGA
TAGATTTTTACCCAAACAGAAGTATCTGTAATTTTATAATTCATCAATTCTGGAATGCTATATATAATATTTAA
AAGACTTTTTAAATGTGTTTAAATTTTCATCATCGTAAAAAGGGATCATCTCAGAGAGAACAGCAGTATTCTGCGTA
TTTTTAAAAATGCTCTAGAGTAACATTTGAAGTAATTCAGTGTATGCCAGTCTTAGAAATAATTTTTTTA
ATTTCTGGTGTCTGTTTCTAATACTAACAAGTTTTCAAATATATTTACAAAGATGCATCTTTACCCATTAT
TTTAAATGATTAAGGAGGATAGTTGCTTCAGGTAACAAGCTAATTTTTCAAATATTAGGCCCTTACAGAACTAT
TTAGTCAAAAAGTAAGATATTCCTTTAAATATATAACCCAAAGCTTTCAGTTAAACATGATATATCACAATAC
TATTAATGTTAAAGAGAAATGCAAAATAGCATTAAATGATGACCAAAATGTAAATATTGTAGATTTCAAAAGC
TGTGTCTCTATTAGGTGGGATACCAAATGTAATGATGTAACCTGACGTTGTTTTTACTTTTTACTTTTTAAAA
AGACTAAAAACGTTTTGATATTATACAATGTATTTGTTTCAGATAAGGTCATTGTCAATTTAGTATATATAATTAA
TATATGTACAAGTTTAAAGTAAATTCCTGTGAGTAAAAATGGACTTATCACAAAACATAGTTCTAAAGAAAGGTAT
ATGCTCATATACAGGTGTCCATTAAATTTAATGGGAAGTAGGTATAACTTCAGGAGAATTTGGCAAATAATTCAT
TAATCCATGTAAATATTCAAAAAGCTTGTTCTATCCACATTATTTCAAGGGATCACTTTATTTTTTCAATATACCTT
CACAGCACTTTTCTAGTAAATTCGTAAACACAGAAATTCATTTTGAATCATTTTCATGTTACCAATAATTCAG
ACTTTTTATAACATTTAATGTTGATGGAAATAGATTACATCTGCTAGAACCTTTTGCCTTAACTATTCACCAAT
ATATGCTAATATTCAATAATATGGATTGACTGTTTACAAACATTAGAATCTTGTCTTGGTTCCATTTTGATGGCT
AATATTTGTTATCTTAATTAAGACTATTTCTGAGGTGATGATTACTTGAAAATATTGACTAAAACTGGGTCTTA
GAAATTCAGGTGGAGCTGATTTACCTATGACTGAGGGGAAAAAAAATCAAATTTTACTGATAATAGTAATGCT
CCAAATGAATTAATGACACATCTGTTCAATAAATAAGAGCTTAAATATACAAAACATAAGAAATCTGGGCAACA

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FIGURE 1739B

AAACTTGTGGTCTTTACTTTTGAATAGCTACCCAAGAAAAGGTTTTAAAGGTAAAAGTTATGAGTAATGTCATCA
CAATAAGCTCTTGTTTAAAATTCTTTTCTTTTATGTATAATTAGGTTTATGTTTCATGTCTTTTAAAACCTTAT
AAAAGATTTAATTATCACATCTATTCTTCAATGTGGAAATATTAAATATTGTTGGTTGTAAAATAATATTTATGT
ACTTACTTGTGTCTGAAAAGTTGTAAAATGCTTACCTCAGCTATAACAATATCTGTGACTCTGAAGACTTTAATGA
ACTATTTCATTAACAAGAAGTCAGAGGCAAATAGAGGAACACCATTATCTTACTTCCCTCTAGAATACTGTTG
AATTTGAAATACAAAAGTTTCAGTTTCATTTTGTGGCATTCAACTTCCTCTCCTCTTTTCCGTTATTAGTG
TCTGCTCTGGTTAGCC

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FIGURE 1740

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCATTGAAGGTATTATTTATTTGCAGCTCATCTTAAGTGACA
AAATTCCATACAGAAGACTATAACAGAAATCATATTTAATATATTAAAATTAATACTTCAAATATCTTTCACATT
AAGATGATTATCTATTGTGTAAATCTTTCCTAGGTATGTGTGTCTGTTTCTTGATGTGTAAACCAAACCTCTGAA
ATATTCTCTTGATCTAACTTTGACTTTTAAAACTGACATTGTATTGAATTTACATAATTCTCAATCAGAAAAA
AATTACTGTCAGACTGCAATGCAAGTCTGCCCAATGAAGGCAGGAGGAGGGATGGCTGGAAGTGTCTCAGGGCA
CTCTGAAAGTTTAGCAAGCTTATCAAGGAGTCCTCAAACCTAAAGCTGGCCAAAACTTCAGCATAAAAACTATCC
TGTCTGTGTATTATATATATTTATTACCAAATTTAATAACAAAAACCACTTTTGAACCAGGTAATTTTATCTAG
TGTGAAAAGAAATTAATCACATGGTCATATACTGGCTAGTGCTCTCTAAAAGTAGACATTAAAATATTTTCATAAT
TGGAGGGGAATCTTTGGAGATTAGTGGCATCTAATCTTGGGGCCTCAGACACCCAAAATCTATATATTGACCAGTG
GAAGTTGATGATTTGTTATCAAATTTCAAAGCACCTAATGGAAAACCCCACTTCATCTCTGTGAAGATTTTCAGTT
CCTTTACAGTTATTTGAAATTTTCAATTCGTGGAGCCACTTCAGAACTCCAATGGGCCTTTGCAATATTAA
AATGTGGAGAATGCATTAATCATTATTTAATCAATGAGTTTAAAAAATAGACAAAAGCTTCTGAAACATGGGACT
GAAGTAGGCGGAGCATTATAAAAGCCTAAGGTAATTGGTAGTGAAGAGTTGGAAAACTTACTTAGTCTAATATT
GTAATTTACAGATAAGGAACTGAGAAGATAAATAATTTATTCAATATCACTCGATGGTTTCATTAGTAGAAGAGC
CAGCATTATGATGTACTCATTTTGTACTCTAGGAGTTGTTAAAAGGCCTTAATATCTTCTTTTCTTGGGTGTTA
GCATTTTTCATTTTAAATCATGCTATTTAGTGTTCTTAACATTTGAAACCCAAATGGTTCACATTTTGTTTTT
GGATTGCTTTGGGAATGAGTATGTACTGTTAGAGAAGGGCCCAATCCAAACACTAGAATTTTAATAATTTCTACT
CCCTCTGCTGGCCAACCTTCCAGTAAATGGATTTTAAAAAAGAGAAAAAAAATCTAGCGGTAATTGAAACAA
AAACAAAACTTTAAAAAGTGCTTTCATTATAAAGAGGTGCCATGCATAAAAGCCTAGGTAGTTTCAAGGTCCAT
TCTTCCATTCCCTCATGATTTTAGGGTTATCCTCATTAGATCTACTCTAGTTATAATAGTACTTTAAACAGAGCA
CAGAATTAAACCATTAGTATGTGAATCTGCAAAAAGAGAACTTGTTTTAGACTCTTCTACAGTTTAGACTTCAAT
GTGCATACTAAATGCATAACATTCGTATCAAATAATTAACATTTATATACAATTAACAAATAAGGACAAATTTTA
TACAAAACCTTCTACTACTGCTATAATTTTTGAAAACATTTAACCCACTAGCAAGAGGTAAGACAGCACTGCCTTT
TTAAAAGACAGGTCACTTGAATAGAGAATATAAGATATAACCATAAGTAGGAGTATAACAATAATTTTCTTCT
TGTGGAATGTTTTTAAATTTCTTTCTTATATTATTCTTCTTCTTAGGTTTTTTTAGACAGGTCATTTCTTCT
GAATGATTTTCTTTTTCTTTTATTTTTATTTTTTGAAGGAGGATTATTACTGGTGGTCTAAAAGAAGTACCTT
CAACTTCTTCATAATTGTAGCCAAAGCGGAAATGGAATATTTAATAATTC

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FIGURE 1741

MKAGGGMAGSVSGHSESLASLSRSPQTKAGQKLQHKNPVVCVLYIFITKFNKQKPLLNQVILSSVKRN

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FIGURE 1742

GCTGTGAGTTGGCGTGCTAGTGGGATGGCAGATGAGGAAGAAGACCCACGTTTGAGGAAGAAAATGAAGAAATT
GGAGGAGGTGCAGAAGGTGGACAGGGTAAAAGAAAGAGACTTTTTTCTAAAGAATTGCGATGTATGATGTATGGC
TTTGGGGATGACCAGAATCCTTATACTGAGTCAGTGGATATTCTTGAAGATCTTGTCATAGAGTTTATCACTGAA
ATGACTCACAAGGCAATGTCAATTGGAAGACAAGGTCGAGTACAAGTTGAAGATATCGTCTTCTTGATTGCAAAG
GACCCAAGGAAGTTTGCCAGGGTTAAAGACTTGCTTACTATGAATGAAGAATTGAAACGAGCTAGAAAAGCATT
GATGAAGCAAATTATGGATCTTGACACTTTTTGTAGTTTCCGAAAATTACCATCTGGGGAAACCATATATAATAA
TTGTATATTTTCTAAAGTAAGATTCTGATATCTAGCCGAGATCGCACCCTGCACTCCAGCCTGGGCGACAGAGC
GAGACTCCGTCTCAAAAAAAAAAAAAAGAAAGCAAGTTTCACATGAATAATGCTGTGTTGGAAGGCTTTTTGATT
AAATCTTTTCGGATTTATAACATCCTGTTAAGTTTTAGGAGAACCCGTTTTCCAGAGCAGATTCAAGCTTCTAA
AAATAAATGCTTTCAGTAGCAGGAATGGCATTGTTTAAAAAGCTGATGGCAGGTAAGCATTGTTGGTTAGTGTTT
TATTAACATATTTGTAAGTACTTGTTTCATTGTGGAAATGTGTCCTTGACTAAAACCATACGTGGCTATGGAAACC
ATGTTTGTAGTTCTGAATACACAGGTTTTGTGTGTATTTACTCTATGTATTAAATTATTATTGCCCTTAGTTTAA
AGTAAGGATTACAATTGGATTTAAGTAGATCACTGAATGTTATTGTTTATGAACTTAACTTTTGTATGCTGCT
TATAAACATGATCTATAAATCAGTGCTTGGGAAAATTTTACTTTCTTAATCTACTGATACAGGAATAAAATATGA
ACAATTAAACAGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1743

MADEEDPTFEEENEEIGGGAEGGQGKRKRLFSKELRCMMYGFDDQNPYTESVDILEDLVIEFITEMTHKAMSI
GRQGRVQVEDIVFLIRKDPKRFARVKDLLTMNEELKRARKAFDEANYGS

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FIGURE 1744

GGCACGAGGGGGCGGGCGGTACGTCGGCCGGGCATGGCTGCATGGAGCCCGGCCGGCAGCGCCTCTCCTCCG
CGGGATCCGCGGGCTTCCACTTCACCATCGGATGTTTGCCACTCAGACTGAGGGGGAGCTCAGAGTGACCCAAAT
TCTCAAAGAAAAGTTTCCACGAGCTACAGCTATAAAAGTCACTGACATTTCAGGCACTAAAAGAAGAAATCAAAG
AGATGCATGGATTGCGGATATTTACCTCTGTCCCCAAACGCTGACCAGCCCTGGCTGCATAGATGCTGCTGCTT
AAGACCTTGGATGAACCTTCACTGACATCATTCTTCCCTAAGCAGTCACCAAAAAATTTATATATTTTGCTCATAT
ACATTTCCATATTATAATTATAGAAGATGTATAATCTATTTAGATGTTAATTAAAGGAAACAAACAACCTGAAGCT
TTTGAAGGGCC

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FIGURE 1745

ARGGGGSRPGMAAWSPAAAAPLLRGIRGLPLHHRMFATQTEGELRVTQILKEKFPRATAIKVTDISGTKRRNQR
DAWIADIYLCPQTLTTPWLHRCCCLRPWMNFTDIILP

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FIGURE 1746

GTGAGCGGCAACATGGCGTCCAGGTCTAAGCGGCGTGCCGTGGAAAGTGGGGTTCCGCAGCCGCCGGATCCCCCA
GTCCAGCGCGACGAGGAAGAGGAAAAAGAAGTCGAAAATGAGGATGAAGACGATGATGACAGTGACAAGGAAAAG
GATGAAGAGGACGAGGTCATTGACGAGGAAGTGAATATTGAATTTGAAGCTTATTCCCTATCAGATAATGATTAT
GACGGAATTAAGAAATTACTGCAGCAGCTTTTTCTAAAGGCTCCTGTGAACACTGCAGAACTAACAGATCTCTTA
ATTCAACAGAACCATATTGGGAGTGTGATTAAGCAAACGGATGTTTCAGAAGACAGCAATGATGATATGGATGAA
GATGAGGTTTTTGGTTTCATAAGCCTTTTAAATTTAACTGAAAGAAAGGGTACCCAGTGTGTTGAACAAATTCAA
GAGTTGGTTCTACGCTTCTGTGAGAAGAACTGTGAAAAGAGCATGGTTGAACAGCTGGACAAGTTTTTAAATGAC
ACCACCAAGCCTGTGGGCCTTCTCCTAAGTGAAAGATTCAATTAATGTCCCTCCACAGATCGCTCTGCCCATGTAC
CAGCAGCTTCAGAAAGAACTGGCGGGGGCACACAGAACCAATAAGCCATGTGGGAAGTGCTACTTTTACCTTCTG
ATTAGTAAGACATTTGTGGAAGCAGGAAAAACAATTCCAAAAAGAAACCTAGCAACAAAAGAAAGCTGCGTTA
ATGTTTGCAAATGCAGAGGAAGAATTTTTCTATGAGAAGGCAATTCTCAAGTTCAACTACTCAGTGCAGGAGGAG
AGCGACACTTGTCTGGGAGGCAAATGGTCTTTTGATGACGTACCAATGACGCCCTTGCGAACTGTGATGTTAATT
CCAGGCGACAAGATGAACGAAATCATGGATAAACTGAAAGAATATCTATCTGTCTAACCCTTTCCAATGGACAG
TGATGGGCTTGTTTTTGTAATAATTACCAGAAAACCTCAGTGGAGATTTACTGAAAACTCAGACTTTATTGAGATT
AAGTTCCTCTACAAAAGTAGGGTTCTGTCCCATGTGTCTCTGACACATTTACAAAATACCAGTTTTTTAAATTT
TTGGTCAAATTATGAGTGGTTGATTTAAAAACTTTTCCAAGAAGAAGAAAAGCATGGAGTCGTAATTTAAAGAAC
TCAATAAAAACCTTCTATTTTTTATTTTAAATAATACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1747

MASRSKRRAVESGVPQPPDPPVQRDEEEEKEVENEDDDDDSDKEKDEEDEVIDEEVNIEFEAYSLSNDYDGIK
KLLQQLFLKAPVNTAELTDLLIQQNHIGSVIKQTDVSEDSNDDMDEDEVFGFISLLNLTERKGTQCVEQIQELVL
RFCEKNCEKSMVEQLDKFLNDTTKPVGLLLSERFINVPPQIALPMYQQLQKELAGAHRTNKPCGKCYFYLLISK
FVEAGKNNSKKKPSNKKKAALMFANAEEFFYEEQ GKPEVLGGPDTRRGLEPVP IQHNGWSVPPVLE

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FIGURE 1748

ATGGCCGACTTCGATGATCGTGTGTCGGATGAGGAGAAGGTACGCATAGCTGCTAAATTCATCACTCATGCACCC
CCAGGGGAATTTAATGAAGTATTCAATGACGTTCCGGCTACTACTTAATAATGACAATCTCCTCAGGGGAAGGGGCA
GCACATGCATTTGCCAGTATAACATGGATCAGTTCACGCCTGTGAAGATAGAAGGATATGAAGATCAGGTCTTA
ATTACAGAGCACGGTGACCTGGGTAATAGCAGATTTTTAGATCCAAGAAACAAAATTTCTTTAAATTTGACCAC
TTACGGAAAGAAGCAAGTGACCCCCAGCCAGAAGAAGCAGATGGAGGTCTGAAGTCTTGAGAGAAATCCTGTGAC
AGTGCTTTAAGAGCCTATGTGAAAGACCATTATTCCAACGGCTTCTGTACTGTTTATGCTAAAACTATCGATGGG
CAACAGACTATTATTGCATGTATTGAAAGCCACCAGTTTCAGCCTAAAACTTCTGGAATGGTCGTTGGAGATCA
GAGTGGAAGTTCACCATCACACCACCTACAGCCCAGGTGGTTGGCGTGCTTAAGATTCAGGTTCACTATTATGAA
GATGGCAATGTTTCAGTTGGTTAGTCATAAAGATGTACAGGATTCACCTAACTGTTTCGAATGAAGCCAACTGCC
AAGGAGTTTATTAATAATCATAGAGAATGCAGAAAATGAGTATCAGACAGCAATTAGTGAAGTATCAAACAATG
TCAGATACCACATTCAGGCCCTTGCGCCGCCAGCTTCCAGTTACCCGCACCAAAATCGACTGGAACAAGATACTC
AGCTACAAGATTGGCAAAGAAATGCAGAAATGCTTAAAGGCTGAATGTAGGATTCTTCAGTATGTGGAAGACAAG
GATTCAACGTGTGGTCATATGATAAATAAGTGATTTATAAACAAGAGTGATATTTGCTAGGGCTTTCAAAGTTA
ACCGGTTTTTCTAGCCTCATGGAATACGTGTAACCTATAGCGTTGTCTTGATTCTTTTGTGTTCTCTGCCTTGTA
ATTTTCTGTTACTGCTATATCTACGTGTAAATCTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTGGTTAA
TTCTGCCACATTTAATGTTGGTGAGAGAGTGATCTATCCTAATGACATTTACTGTTTAAAAAGTTTCCTAGCCA
TGAAGCCCTGCTACTGATTTAGACAAGGTATTATGGTCATTACTTTGTACCCCTATCCTTCCAAGCACTTCTGGT
ACTTCAGTCGTTTTTACTGATCCACCAACACCTAAAGAGGCTATGCTACAGTCTCTAGCTAAATGGAAGACACAT
TCATCCTTCTCCCTCTGACTGCTTTTGATCATCATTTATTGCATCGTCATATCATATTTATCGCATCTCATAACTA
ACTTTCATAAGTTTGGATTGGGACTTTTCAGGTCCTTTTTGGAGGGCAAAGGAAGTTCAGCTTCTCTGGGGAAC
TTGTTTTTAAATCCAAAGACTTGAACCACATTCCCTGCACATGAACATGTTTGCTTTTATCCCTTCTCTCATTGG
CTCCTTCCCCTCTTAGTACCATTGTAGTTATACATCTGCATTTTTTGTAGAACATTTTACCCATTTATTTTTTTAA
ACATTCAAGAACTGCTGACGTACTGTGGATGTAGAGTATAAACTTGAAAAATGCAGATGTTGAAGGAATAATAG
GTATCTTGTGCTTTAATACTTTATGGCAGGATTGTACTATAAGCAAATGAATTAACAGCTATGTAAATCATAAA
GAAAACTAAAAATGAACCAAAGTGAAAGGATAACTTCCAGGCAGTATCTTTCTATTGTAACCTGTTATTTAAGG
AAATACTAGTGATTTCTTCTAAATAGGATGTAACTTCTTTCAAATTACTCTTCTCAGTCTGCCTGCCAAGAAC
TCAAGTGTAAGTGTGATAAAATAACCTTTCCAGGTATATTCCGGCAGGTATGTGTGTAATCTCAGAATACACAGG
TGACATAGATATGATATGACAACTGGTAATGGTGGATTCAATTTACATTGTTTACACTTCTATGACCAGGCCTTAA
GGGAAGGTCAAGTTTTTTAAAAAACCAAGTAGTGTCTTCTTACCTATCTCCAGATACATGTCAAAAAGAAAAAGGTG
TTTGTGCTCCGTTTTTGTCTGCTCAGTAATATAGTCAAGCAAGTTTGTTCAGGTGACCCATTGAGCTGTGTAT
GCATTTTTGTTTTATTTCAATAAAATATATTTGTATTATTTGTCCTTCATACTATCCATCCATACCACACTATCTT
CTGTATCAGGTAGTCTAATAGAAATATACCTGTTTTGTCTAAAAA

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FIGURE 1749

MADFDDRVSDEEKVRIAAKFITHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFQYNMDQFTPVKIEGYEDQVL
ITEHGD LGNSRFLDPRNKISFKFDHLRKEASDPQPEEADGGLKSWRESCDSALRAYVKDHYSNGFCTVYAKTIDG
QQTIIACIESHQFPKNFWNGRWRSEWKFTITPPTAQVVGVLKIQVHYEDGNVQLVSHKDVQDSLTVSNEAQT
KEFIKI IENAENEYQTAI SENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA

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FIGURE 1750

GCAGTGATATAAATATATTTTTTTCTTAGACTAAATATGAGCTGACTATCTCTTTTGATGTGTGTACATAGGTGT
GAGTGTGTGTGTATGCGTGCCTGTCTGTGTGCGGGTGTGTGTATGTGCATAGCCTCATGCTTAGGACTACCCATG
AATGTTGTGGAATGCTACACCTGGAGAGTTCTGGTTTTCCACCAGTTTCAAGATGAAGAACTACATGATACAGTG
GACCTGGAGACCATCCCCCTGGAAAGACAACCCAGAGATGTTTCAGCATCCTGTATCTACACGCATCCTGTATCTA
CACGTGATTTTGTAGCTGTCACACTAACCTTAATAAGAATTCTACAGCTTTGGACAGAGGCATTTTACCTTAA

TGGTGAAGTAATTTAAAATATAAATCCATTGAGGTGACAACCCATCATCAAAATTACAAATTTTCTGATTGAAC
CATCTGAATCATCAGTTCCTTGATGGAGAGAGAGAAGGAGATGGAATGTGTCTGGTAACCCCAAATGGAGTACAA
GTAGCCTTTGTTTTCTGCATAAATGGACTTGTTGAATGCGAACGAATATATGCAATTCATATACTTTTGGAGAT
GAACGTAGATATGTGTGTCAGCTTTGAGATGGTGTGTCCTGGATTAATACTTTGTCTCCCAATATCACAGAAAA
TACATGCCAGTGACTCTTGAGGTTAAGGTAGTTGGGATGAAATGGCCTCAGGCAATTTACATTCCCTAATTACC
TGGAAAGTTCTACAGTAATTAATATGCAGCTAACTCCTGTTGCCCTCACAAGAGCATCAGCCTTCTAGAATCGGA
GCTCCGGAGTGTGAAGATTCAGTATTGATATGATATGTATACCAAACCTCCAGCCAACCTTACTGCCATTTTTCTA
ATCTGAGTGGCTGCCTTGCTTATCCTAAGCTGTGGTTGCAGAAACCGTGGCCATTTATATAAGCTATAACATCAA
ATCAGGGAAAAATGAGGAAAAAAATAGATTCTGAACCATTTATTGTTGAATAAGTAGAGAAAATCATCAATAAA
TATTTATTACATTCTGACAGGGTGTGTGGCATTGTGTTCTATGCCAGAGTGACAAAGTTGATTACCCCTTTTGT
GGGACCTTAATATATTTTTTAAAGGATGTGCCTATGCATTGATGCCTGAAAAATATGTATAAAGAAATGAGGTTG
ACTCTTCTGAGCAGTTCATCTTTTCCAGAGGTAAGGGTAGGAGGCCAACCTCAGGATCTGGGTCTAAGCCCGTGG
GCAAGCCCTGGCCGAGTGAGCTCCAATGCTAACTCATGTGCCGATCTCTAGAGCAGTGGGAACTACCCCGCTGC
ACCAAATCAAGTAGCTTCACCTTGTGTATGCAGGCCCCAAGTTATTTTTTAGCAATCTTACGAGTGAAATGTTCT
GGTGGGTTGAAAAACGTTCTTATTTTAAAGAAAGGTTGTGCTCGCTACACTGCTGGTGTGTGCGTTCTGAGACCT
CTTGTATTCAATCTGTGAAGGATATGTGTATTAATCCGTACACCCGTATAGCCTCAATATTTGTCTGAAGACACT
TAAATTCTGACCATAAAGGAAAGTTCTAGAAGCAATATTTTCACTTATTTAACATTCTCCAAACAACATCAAGC
ATTGATACACACTGAAGAGTGC GTTTATTTTTTGTATCACTCTAAGTATGTTGGAATATGCAAGGACTGTGGTTC
AAATTAGAATGTATAAGGCATATTATAATTTAGTTCATACTGAAAAAGAAATTAACAGAACATTGTTCCGGTTCAC
ACGTTCCAAATTTGAGTGATTTCTGGAGTTAGACATAGATTTTCTATTTTGTTTTAATTTGTCAAGGTATTTTT
CTTCCCTTCATGAACTTTAGGTACACATAACTTATGTCATTTATTTAIGGTCTTTTATACCTAGTTTGTAAAAAT
GTAAAATAGCAAATAAATGCAAAGAGTTTGCATTTGAAAATAATAAAGTAGTTACCGTATACAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1751

MCVHRCECVCMRACLCAGVCMCIASCLGLPMNVVECYTWRVLVFHQFQDEELHDTVDTLETIPLERQPRDVQHPVS
TRILYLHVYFVAVTLTLIRILQLWTEAFSP

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FIGURE 1752A

CTCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCTGCAGGGCATTCCAGAAAAGATGAGGATATTTGCTGTCTTT
ATATTCATGACCTACTGGCATTGCTGAACGCATTTACTGTACGGTTCCCAAGGACCTATATGTGGTAGAGTAT
GGTAGCAATATGACAATTGAATGCAAATTCAGTAGAAAAACAATTAGACCTGGCTGCCTAATTGTCTATTGG
GAAATGGAGGATAAGAACATTATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTACAGCATAGTAGCTACAGA
CAGAGGGCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCACTTCAGATCACAGATGTGAAATTGCAG
GATGCAGGGGTGTACCGCTGCATGATCAGCTATGGTGGTGCCGACTACAAGCGAATTACTGTGAAAGTCAATGCC
CCATACAACAAAATCAACCAAAGAATTTTGGTTGTGGATCCAGTCACCTCTGAACATGAACTGACATGTCAGGCT
GAGGGCTACCCCAAGGCCGAAGTCATCTGGACAAGCAGTGACCATCAAGTCCTGAGTGGTAAGACCACCACCACC
AATTCCAAGAGAGAGGAGAAGCTTTTCAATGTGACCAGCACACTGAGAATCAACACAACAACTAATGAGATTTTC
TACTGCACTTTTAGGAGATTAGATCCTGAGGAAAACCATACAGCTGAATTGGTCATCCCAAGACTACCTCTGGCA
CATCCTCCAAATGAAAGGACTCACTTGGTAATTCTGGGAGCCATCTTATTATGCCTTGGTGTAGCACTGACATTC
ATCTTCCGTTTAAAGAAAAGGGAGAATGATGGATGTGAAAAAATGTGGCATCCAAGATACAACTCAAAGAAGCAA
AGTGATACACATTTGGAGGAGACGTAATCCAGCATTGGAACCTCTGATCTTCAAGCAGGGATTCTCAACCTGTGG
TTTAGGGGTTTATCGGGGCTGAGCGTGACAAGAGGAAGGAATGGACCCGTGGGATGCAGGCAATGTGGGACTTAA
AAGGCCCAAGCACTGAAAATGGAACCTGGCGAAAAGCAGAGGAGGAGAATGAAGAAAGATGGAGTCAAACAGGGAG
CCTGGAGGGAGACCTTGATACTTTCAAATGCCTGAGGGGCTCATCGACGCCTGTGACAGGGAGAAAGGATACTTC
TGAACAAGGAGCCTCCAAGCAAATCATCCATTGCTCATCCTAGGAAGACGGGTTGAGAATCCCTAATTTGAGGGT
CAGTTCCTGCAGAAGTGCCCTTTGCCTCCACTCAATGCCTCAATTTCTTTTCTGCATGACTGAGAGTCTCAGTGT
TGGAACGGGACAGTATTTATGTATGAGTTTTTCTATTTATTTGAGTCTGTGAGGTCTTCTTGTTCATGTGAGTG
TGGTTGTGAATGATTTCTTTTGAAGATATATTGTAGTAGATGTTACAATTTTGTGCGCCAACTAACTTGCTGCT
TAATGATTTGCTCACATCTAGTAAACATGGAGTATTTGTAAGGTGCTTGGTCTCCTCTATAACTACAAGTATAC
ATTGGAAGCATAAAGATCAAACCGTTGGTTGCATAGGATGTCACCTTTATTTAACCATTAACTACTCTGGTTGAC
CTAATCTTATTCTCAGACCTCAAGTGTCTGTGCAGTATCTGTTCCATTTAAATATCAGCTTTACAATTATGTGGT
AGCCTACACACATAATCTCATTTCATCGCTGTAACCACCCTGTTGTGATAACCACTATTATTTTACCCATCGTAC
AGCTGAGGAAGCAAACAGATTAAGTAACTTGCCCAAACCAGTAAATAGCAGACCTCAGACTGCCACCCACTGTCC
TTTTATAATACAATTTACAGCTATATTTTACTTTAAGCAATTCCTTTTATTCAAACCACTTTATTAAGTGCCCTT
GCAATATCAATCGCTGTGCCAGGGCATTGAATCTACAGATGTGAGGCAAGACAAAGTACCTGTCTCTCAAGGAGCT
CATAGTATAATGAGGAGATTAACAAGAAAATGTATTATTACAATTTAGTCCAGTGTCTATAGCATAAGGATGATGC
GAGGGGAAAACCCGAGCAGTGTGGCAAGAGGAGGAAATAGGCCAATGTGGTCTGGGACGGTTGGATATACTTAA
ACATCTTAATAATCAGAGTAATTTTCATTTACAAAGAGAGGTGCGTACTTAAAATAACCCGTGAAAAATAACACTG
GAATTCCTTTTCTAGCATTATATTTATTCCTGATTTGCCTTTGCCATATAATCTAATGCTTGTATTATAGTGTCT
TGGTATTGTTTAAAGATTCTGTCTTTTCTATTTAAATGCCACTAAATTTTAAATTCATACCTTTCCATGATTCAA
AATTCAAAGATCCCATGGGAGATGGTTGGAAAATCTCCACTTCATCTCCAAGCCATTCAAGTTTCCTTTCCAG
AAGCAACTGCTACTGCCTTTCATTCATATGTTCTTCTAAAGATAGTCTACATTTGGAAATGTATGTTAAAAGCAC
GTATTTTTTAAATTTTTTCTTAAATAGTAACACATTGTATGTCTGCTGTGTACTTTGCTATTTTTATTTATTTT
AGTGTCTTCTTATATAGCAGATGGAATGAATTTGAAGTTCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCTAAG
TTATCTTTCCCATAGCTTTTCATTATCTTTCATATGATCCAGTATATGTTAAATATGTCTACATATACATTTAG
ACAACCACCATTTGTTAAGTATTTGCTCTAGGACAGAGTTTGATTTGTTTATGTTTGCTCAAAAGGAGACCCAT
GGGCTCTCCAGGGTGCCTGAGTCAATCTAGTCTTAAAGCAATCTTATTATTAACCTCTGTATGACAGAATCAT
GTCTGGAACTTTTGTTTTCTGCTTTCTGTCAAGTATAAACTTCACTTTGATGCTGTACTTGCAAAATCACATTTT
CTTTCTGAAATTCCGGCAGTGATCTTCTGCTGCTAGCTACCTGTGCCAGAAAAGCCTCATTCGTTGTGCTTGA
ACCCTTGAATGCCACCAGCTGTCATCACTACACAGCCCTCCTAAGAGGCTTCCCTGGAGGTTTCGAGATTGAGATG
CCCTGGGAGATCCCAGAGTTTCCCTTCTTGGCCATATTCTGGTGTCAATGACAAGGAGTACCTTGGCTTTG
CCACATGTCAAGGCTGAAGAAACAGTGTCTCCAACAGAGCTCCTTGTGTTATCTGTTTGTACATGTGCATTTGTA
CAGTAATTGGTGTGACAGTGTCTTGTGTGAATTACAGGCAAGAATTGTGGCTGAGCAAGGCACATAGTCTACT
CAGTCTATTCTAAGTCCTAACTCCTCCTTGTGGTGTGGATTGTGAAGGCACCTTATCCCTTTTGTCTCATGTT
TCATCGTAAATGGCATAGGCAGAGATGATACCTAATTCTGCATTTGATTGTCACTTTTGTACCTGCATTAATTT
AATAAAATATTCTTATTTATTTTGTACTTGGTACACCAGCATGTCCATTTCTTGTATTATTTGTGTTTAAATAA

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FIGURE 1752B

AATGTTTCAGTTTAAACATCCCAGTGGAGAAAGTTAAAAA

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FIGURE 1753

LEAPHQPRFCPPAGHSRKMRIFAVFIFMTYWHLNFAFTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYW
EMEDKNIIQFVHGEEEDLKVQHSSYRQARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNA
PYNKINQRILVVDPTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLRINTTTNEIF
YCTFRRLDPEENHTAELVIPELPLAHPPNERTHLVILGAILLCLGVALTFIFRLRKGRMMDVKKCGIQDTNSKKQ
SDTHLEET

[illegible]

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FIGURE 1755

MTDFKLGIVRLGRVAGKTKYTLIDEQDIPLVESYSFEARMEVDADGNGAKIFAYAFDKNRGRGSGRLLHELLWER
HRGGVAPGFQVVHLNAVTVDNRLDNLQLVPWGWPRKAEETSSKQREQSLYWLAIQQLPTDPIEEQFPVLNVTRY
NANGDVVEEEENSCTYYECHYPPCTVIEKQLREFNICGRCQVARYCGSQCKDWPAAKKHCRERKRPFQHELEP
ER

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FIGURE 1756

ATGAACTAATTTATTTAGGCTTAATCTCTAAAATTTTCAGCCTGATCTTAACCAATGAAATTTCAAAAACAAAAAC
TGTACTTCAGTCTACAATTGAATGGAATTCAGTGTAGACCAGTACAATGGAATGTACTGGCTGAGATGGGAGGGT
CCCTTGAGCCCAGGAGTTGGAGGCTGTAGTGAGCTGTGATGGTGTCTGTGAATAGTGACGGCACTCAAGCCTAGG
TGACATAGCAAGATGCCATCTCAAAGAAATATAGATATATAACATAAAAATAAATAACTTTATACATTTCTGAG
AAAAGTACTCTGTAAATTCAGAGATCTGAATCAAATTACTCAACCTTTTGGAAATTTGATCCTCTACTGTAATA
ATATGCTAGATTACTGAATTTTCAGAGTGAAAAAAATTTGACAGGGTAATATATAGGCCATATTATAGTGAA
TCATAAGTATAAATGTCCTCGTTTAATCTTTCCATATTGAGGACAGCCTCTGCATATAAAAATGTTTATTGGG
AGAAAAATTATTTTAAACTAAATTTTATAGTAGTCCTCCATTACTGGCAATTAAGGAGCAACCCACAAAATG
ATTATGTGGTTCTTTGATTAGGCATAAAAAGTATTGCAAACAGCTTTTCTATTCCTTTGGAATATGAATCTTT
AATGTCTAAAGTTAACCTGCAACATTTTCTAGTAGGACAAGTCAATGTAAATTAGGTAATTTTGCCTGTTTT
ACCTTCTGTTGCATTTTGTTCAAATGAAAACATTTTAAACATGATTGAATTTTACTTCTCAGATAATTG
GTGAGTGTGGAATTTCTTTTTTAACACTTTGATATGTAAGTTAGTGTAATTAATACTTTTATAACACTACTA
CTTTATATTTTATGGAATGTTTTAAAATTTGAAATTTTGAAGTGTTAATTTAGCAGTACTTTATCATTATG
TCCCAATACTGACAAGAAAAACAATTTTTATGTATTTAATATACTATGGTATTCAATAAATCTATTTTAAAT

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FIGURE 1757

MVFNKFYFK

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FIGURE 1758

TTTTTTTTCATTAAAAATAGTGCTCTTTATTATAAATTACTGAAATGTTTCTTTTCTGAATATAAATATAAATA
TGTGCAAAGTTTGACTTGGATTGGGATTTTGTGAGTTCTTCAAGCATCTCCTAATAGCCTCAAGGGCCTGAGTA
GGGGGGAGGAGAGAGGACTGGAGGTGGAATCTTTATAAAAGACAGAGTGATTGAGGCAGATTGTAAACATTATTA
AAAAACAAGAAACAAACAAAAAATAGAGAAAAAACCACCCCAACACACAACCTGCCCTGTCCAGCCCAATACCT
GACACAGAATACTTTGTGTTTGTGTTAGTTGCCCCCCCCCACATAA

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FIGURE 1759

AAAAAAAAAAAAAAAAACCGGCTCGCGGCGCGTGAGGCTGCTCCCAGCCGCGCGAGTCAGACTCGGGTGGGG
TCCCGGCGGCGGTAGCGGCGGCGGCGGTGCGAGCATGTCGTGGCTCTTCGGCATTAAACAAGGGCCCCAAGGGTGA
AGGCGCGGGGCGCGCGCGCTTTGCCGCGCGCAGCCCGGGGCGGAGGGCGGCGGGGACCGCGGCTTGGGAGA
CCGGCCGGGCGCCCAAGGACAAATGGAGCAACTTCGACCCACCGGCTTGAGCGCGCGCCCAAGGCGGCGCGCA
GCTGGAGCACTCGCGTTATGCCAAGGACGCCCTGAATCTGGCACAGATGCAGGAGCAGACGCTGCAGTTGGAGCA
ACAGTCCAAGCTCAAAGAGTATGAGGCCGCCGTGGAGCAGCTCAAGAGCGAGCAGATCCGGGCGCAGGCTGAGGA
GAGGAGGAAGACCCTGAGCGAGGAGACCCGGCAGCACAGGCCAGGGCCAGTATCAAGACAAGCTGGCCCCGCA
GCGCTACGAGGACCAACTGAAGCAGCAGCAACTTCTCAATGAGGAGAATTTACGGAAGCAGGAGGAGTCCGTGCA
GAAGCAGGAAGCCATGCGGCGAGCCACCGTGGAGCGGGAGATGGAGCTGCGGCACAAGAATGAGATGCTGCGAGT
GGAGGCCGAGGCCCGGGCGCGGCCAAGGCCGAGCGGGAGAATGCAGACATCATCCGCGAGCAGATCCGCCTGAA
GGCGGCCGAGCACCGTTCAGACCGTCTTGAGTCCATCAGGACGGCTGGCACCTTGTTTGGGGAAGGATTCCGTGC
CTTTGTGACAGACTGGGACAAAGTGACAGCCACGGTGGCTGGGCTGACGCTGCTGGCTGTTGGGTCTACTCAGC
CAAGAATGCCACGCTTGTCGCCGGCCGCTTCATCGAGGCTCGGCTGGGGAAGCCGTCCCTAGTGAGGGAGACGTC
CCGCATCACGGTGCTTGAGGCGCTGCGGCACCCCATCCAGGTCAGCCGGCGGCTCCTCAGTCGACCCAGGACGC
GCTGGAGGGTGTTGTGCTCAGTCCCAGCCTGGAAGCACGGGTGCGCGACATCGCCATAGCAACAAGGAACACCAA
GAAGAACCAGCAGCCTGTACAGGAACATCCTGATGTACGGGCCACAGGCACCGGAAGACGCTGTTTGCCAAGAA
ACTCGCCCTGCACTCAGGCATGGACTACGCCATCATGACAGGCGGGGACGTGGCCCCATGGGGCGGGAAGGCGT
GACCGCCATGCACAAGCTCTTTGACTGGGCCAATACCAGCCGGCGCGGCTCCTGCTCTTTGTGGATGAAGCGGA
CGCCTTCCTTCGGAAGCGAGCCACCGAGAAGATAAGCGAGGACCTCAGGGCCACACTGAACGCCTTCCTGTACCG
CACGGGCCAGCACAGCAACAAGTTCATGCTGGTCCTGGCCAGCAACCAACCAGAGCAGTTCGACTGGGCCATCAA
TGACCGCATCAATGAGATGGTCCACTTCGACCTGCCAGGGCAGGAGGAACGGGAGCGCCTGGTGAGAATGTATTT
TGACAAGTATGTTCTTAAGCCGGCCACAGAAGGAAAGCAGCGCCTGAAGCTGGCCCAGTTTGACTACGGGAGGAA
GTGCTCGGAGGTGCTCGGCTGACGGAGGGCATGTGCGGCGGGGAGATCGCTCAGCTGGCCGTGTCTGGCAGGC
CACGGCGTATGCCTCCGAGGACGGGGTCTGACCGAGGCCATGATGGACACCCGCGTGCAAGATGCTGTCCAGCA
GCACCAGCAGAAGATGTGCTGGCTGAAGGCGGAAGGGCCTGGGCGTGGGGACGAGCCTTCCCCATCCTAGATCCA
CAGGGAGATCCACAGCTCACGGAGCCTGGCCGCGGACCCCTCCACCCCTGCCTTGCCGGCCCCCTGCACATTTAG
GATATGCTCCTGGGTGGGACTGGGCTGTGCCCAGGGCCTCTGTCCCCCAGGATGTCTTGTTGGTGCGGGTCGGCC
GTTCTGCCCCCAGGGCACCCCTGTTGTAGGCACTGGCTAGGGAGGGGAGGCTTTCCTGCCCCCTCGAGAC
ACTCTTGGGAGATGCATTTTCCGTCTGGCTCACAGGGGGAGGGTGAGGCTTTGCACCCAGCCCCCTGCCAGGCC
ACTGTGAGGGTGGGTGCTGGCTGACCCCCGGGGCAGCAGGAGCCAGGCAGGTGATGTCTTTGTTCTCGGCTCCC
ACAGCAGAGCCAGGTGAGGGGGCGCCTGCCAGGGCCAGACCCAGGTGGGGCAGCCTGAACCTGCTTCCCCCTGT
GGCCGGCATGCCCCGATCTTTACACACTGGTGACCCTGAGAGAGGAGGGAGGGAACCTGGCGGGGTGTCT
GAGGCCGCACTGTGAGCTGGCCGGTCCAAGCCTGTGGCTGGAGCTGGGGTCTGTTTACCTAATAAAGTCCACAG
GTGCCTCATT

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FIGURE 1760

MSWLFGINKGPKGEGAGPPPPLPPAQPGAEGGGDRGLGDRPAPKDKWSNFDPTGLERAACAARELEHSRYAKDAL
NLAQMQEOTLQLEQQSKLKEYEAAVEQLKSEQIRAQAEERRKTLSEETRQHQAQYQDKLARQRYEDQLKQQQL
LNEENLRKQEESVQKQEAAMRRATVEREMELRHKNEMLRVEAEARARAKAERENADI IREQIRLKAAEHRQTVLES
IRTAGTLFGEGFRAFVTDWDKVTATVAGLTLLAVGVYSAKNATLVAGRFIEARLGKPSLVRETSRITVLEALRHP
IQVSRRLLSRPQDALEGVVLSPSLEARVRDIAIATRNTKKNRSLYRNILMYGPPGTGKTLFAKKLALHSGMDYAI
MTGGDVAPMGREGVTAMHKLFDWANTSRRGLLLFVDEADAFLRKRATEKISEDLRATLNAFLYRTGQHSNKFMLV
LASNQPEQFDWAINDRINEMVHFDLPGQEERERLVRMYFDKYVLKPATEGKQRLKLAQFDYGRKCSEVARLTEGM
SGREIAQLAVSWQATAYASEDGVLTEAMMDTRVQDAVQQHQKMCWLKAEGPGRGDEPSPS

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FIGURE 1761

GGCACAGGGCTGTGACTAGCGGGCCGGCCCGGGCCAGGACAGCGGGCGGGCGGGCGGGCCCTGGCCCCGGGA
TGGCTATGTTCCGCAGCCTGGTGGCTCGGCTCAGCAGCGGCAGCCGCCGGCCGGGCGGGCGGGCGGCGACAGCG
GCCTGGAGGCGCAGTACACCTGCCCCATCTGCCTGGAGGTCTATCACCGGCCCGTGGCCATCGGCAGCTGCGGCC
ACACGTTCTGCGGGGAGTGTCTCCAGCCCTGCCTGCAGGTGCCATCCCCGCTGTGCCCCTGTGCCGCTGCCCT
TCGACCCCAAGAAGGTGGACAAGGCCACCCACGTGGAGAAGCAGCTCTCATCTACAAAGCGCCCTGTGAGGCT
GCAACAAAAAGGTGACCTGGCAAAGATGAGAGTGCACATTTTCGTCTGCCTGAAGGTCCAGGAGCAGATGGCCA
ACTGCCCCAAGTTCGTCCCCGTGGTGGCCACATCACAGCCTATCCCCAGCAACATCCCCAACAGGTCCACCTTCG
CCTGCCCCGTACTGTGGTGGCCGCAACCTGGACCAGCAGGAGCTGGTGAAGCACTGTGTGGAAAGCCACCGCAGCG
ACCCCAACCGCGTGGTGTGCCCCATCTGCTCGGCAATGCCCTGGGGGGACCCAGCTACAAGAGCGCCAACCTTC
TGCAGCACCTGCTTCACCGACACAAGTTCTCCTACGACACCTTTGTGGACTACAGTATTGACGAGGAGGCCGCT
TCCAGGCTGCTCTGGCCCTGTCTCTCTCTGAGAACTGAAGGGAAGCGCAGCCACCCGCTGCGTCTGGGGTCAGG
GATGTCCCCGCTCCTGTGTGCGACCTGGCACCTGCTCGGGAGCGCACCTCACCGGACTGAGCTCACAGGAGGAGC
CTGCACCCGCGCAGAAGGGGAGCCGGGGCCGAGCCTCCGGGCCTGAATACGGGCCAGCCGCCGAGGCCGCCAGAG
CAGGGCCGCTGGTCCCACCGGCGTCGCTGGGTTCCTCGGTGCTTCTGGCCGAGCAGGCGGCCTACTTGGGCAGG
GCTGGACGCTGGGACCTGGAGCTGCCGCCGTCTCTTCAAAGCCATGATACCCCTCGTGGGAAGAAGGGACCGAC
GCGCGAGTCGCGCTCCGCAGTCGAGCCGGGAGGAACCCAGGCTGCTGCCCTGCCAGCCCGACCTGCCCGGCC
CCGCTTCCACCTTGCGCATTTGGTACTGGCTTTTGTGATACTTAGGAACCCTGGCATCTTTTCTATATTATCCAG
TGTGATAATCTTTTACGTTTTATAGAGCAAAGACAGAGCAGTTACTCTTCATATTGCAATATCTGTGTTTGACT
AGGAATAATAGTATTTTTATGGAACATTTACAAAATTATATTTTTTAAGAAAACAATCAAAACAAGCATTGGGGG
ATTGGGGCAAGGATGGAAGGAGCAGTGGGGCAGCTGCCAGAGCTCAGGCGAGCCATGGGGTCTGCTGTGGGGTCT
GCCCTGGCCACCCACTGTGTGTCTGGGTCTTGAGGTTTGTACGTTTCTCTTTGATGACCAGGAAGAAATCCCAG
CACCCAGCCACAGGCTGTGGCTGCTCCCAGCAGAGGTGGGGCCGGCAGAGAAGGGGCCTCCTCCACCCAGAGTC
CTGGCCTTGCCCGCTGTACCTTCAAAGCTGACTGTGCCCCGCTGCGGGAGGGGACGGCACCCAGTGGTGGCA
GAGCTTGGGGGCCTGGGCAGGGGCCCCGCTTGGCGGGCCGGGCAACACGTCAACATTCTTTTCTGTTCTTGGCATT
AATTATTGCTGTCTTTTTTTTAAAAAAAAGTTTAAATAAAATGTCTCAGAGCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1762

MAMFRSLVASAQQRQPPAGPAGGDSGLEAQYTCPICLEVYHRPVAIGSCGHTFCGECLOPCLQVPSPLCPLCRLP
FDPKKVDKATHVEKQLSSYKAPCRGCNKKVTLAKMRVHISSCLKVQEQMANCPKFVPVVPTSQPIPSNIPNRSTF
ACPYCGARNLDQQELVKHCVESHRSDPNRVVCPICSAMPWGDPSYKSANFLQHLLHRHKFSYDTFVDYSIDEEAA
FQAALALSLEN

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FIGURE 1763A

CGAGCCTAGGGAGGCGAGGTTCCCGCACCGGATAGGAACATTCTGTTGTTTTCTCTGCCATCTAGTGGCAAAAG
AAAGTAATTTTCTGGTTTTTTTGAATGGATAGCCATACCTTAAAAAGCATCCAGATTGCGCAGTAGTGCTAGCGG
CTTCGCGGTTTCAGTCTCTTAAGTACAGCCGCCACTGGTGCTGAGCTGCTAGGAAGCCCCCTGTCGGCGAGCTTG
TTGGAGCTTGAACCCACTGTCACCCCTCCGACTCACCGGCAAAAAAAAAATGTTGAAGCAGATCGCCCAGGAA
AGCTCTTCATTGGTGGGCTTAATACGGAAACAAATGAGAAAGCTCTTGAAACAGTATTTGGCAAAATATGGACGAA
TAGTGGAAGTACTCTTGATAAAAGACCGTGAAACCAACAAATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCC
CAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGGAAAAGCCATCAAGGTGGAACAAG
CCACCAAACCATCATTGAAAGAGGTAGACATGGACCGCCCCACCTCCAAGAAGTAGAGGTCCTCCAAGAGGTT
TTGGAGCTGGAAGAGGAGGAAGTGGAGGAACAGGGGACCTCCTTCACGAGGAGGACACATGGATGATGGTGGAT
ATTCCATGAATTTTAACATGAGTTCTTCAGGGGACCACTCCCAGTAAAAAGAGGACCACCACCAAGAAGTGGGG
GTCCTTCTCCTAAGAGATCTGCACCTTCAGGACTAGTTTCGACGACAGCAGTGGAATGGGAGGAAGAGCTCCTCTAT
CACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGGAACCGCTCCCCCTCTCGTAGAGATGTTTATTTGTCCC
CAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGCAGAGATTACCCAAGTTCTCGTGATACAAGAGATT
ATGCACCACCACCACGAGATTATACTTACCCTGATTATGGTCATTCCAGTTCACGTGATGACTATCCATCAAGAG
GCTATGGCGATAGAGATGGATATGGTCGTGATCGTGACTATTGAGATCATCCAAGTGGAGGTTCTTACAGAGATT
CATATGAGAGTTATGGTAACTCACGTAGTGCTCCACTTACACGAGGGCCCCCGCCATCTTATGGTGGAAAGCAGTC
GCTATGATGATTATAGCAGCTCACGTGATGGATATGGTGGAAAGTCGAGACAGTTACTCAAGCAGCCGAAGTGATC
TCTACTCAAGTTGTGACAGGGTTGGCAGACAAGAAAGAGGGCTTCCCCCTTCTGTAGAAAGGGGGTACCCTTCTT
CACGTGATTCTTACAGCAGTTCAAGCCGCGGAGCACCAAGAGGTGCTGGCCCTGGAGGAAGCCGATCTGATAGAG
GGGGAGGCAGAAGCAGATACTAGAAACAAACAAACTTTGGACCAAAATCCCAAGTTCAAAGAAACAAAAAAGA
GTGGAAACTATTCTATCATAACTACCAAGGACTACTAAAAGGAAAAATTTGTGTACCTTTTTTAAATTCCTGT
TAAGTCCCTTCCGTAATTTTTATGTTCTTGTGAGGAAAAAGTAAAAATGTTTAAATTTTATTTGACTTTATGAC
ATTGCTTTTCAACAAGCAAATGTTAAATGTGTTAAGCCTTGTAGTACTAGTGTGTAACCTTTCCAAGTAAAGGTG
TCCCTAAAGACCACTTCCCTATCTGGTTTTTCCCAGTAAATGAGGCAAGCAATTCTAAGATCTTCCACAAAACATC
TAGCCATCTAAATGGAGAGATGAATCATTCTGCCTATACAAACAAGCTAGCTATTAGAGGGTGGTTGGAGTATG
CTACTCATAAGATTTTCAGGGTGTTTTCTAACTGAAATCTCACTGTTCTCAGTATGCAAAACCTGAAATCAGATGC
CTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAAAAAGCAAATGGATAATGCTGGCCATTTTGCCTTTCT
GACATTTCTTGGGAATCTGCAAGAACCTCCCCCTTCCCCCTCCACAATAAGACCATTTAAGTGTGTGCTAAACA
ACTACGGAATACTAAATAAAAAGTTTGGCCAAAACCAACCATGAAGCTGCAAAGGTGCTTGCTCTTACTCTTTCA
AATTTTTGCAACTCTAATGTCTCACTTTTAAAGGAACAGCTTGATTGCAAAGGAGAAAATAGATAAGCAATGAAT
TTATCTCCAACCTTCTAAAGGCTTATGACTTCTAAAAAGTGAATCTATCAGCATTCCACATCAGATTTAAAGCAT
CAAATGCCTGTGAAACAGCAAAGATGGTTGAAGATTGTGCTCATTATGTTTGTGGAGTGCTGATTGATTACAGT
AGATAACGCTGGCAGTAAGAGAAATCAAATGCTAAGAGTTGTTGAAGCAGAAGGCGGCTGATTGTTGGTAAGTCA
GTGCAGTTGCATAAGCAGTGCTGTCAGAATTGGTTTGGTGCAGGCAATAGATTTTGCCTTCAAGGGTTCTGTGG
ATCTCAGGAAGGCATCAGTGTTGATTAACTCATAACTAGGGAGTGAGTGGTAGTTACTTAAGTAATTGACCAA
ATGGAAAAGGGGAAGTAATTAAGGAAATTGGTAAGTGGAGGTAGTCAGGAGGTTCTCGTGGTCTTTACACAGAT
TTTACAGCTTTGGGTTTCAATTTGTTTAGCTAAAGTCATGGGGACAACCTTCAATTTAGAACTTAAGATGAATT
ATAAAAATGATGGATATAAGTGGTAGCTCTATCTGGTGAAGTGTCTTGTGAGTAAAGTGAACATTTTTTGTGGT
GGCTTATCCACAAACAGTTTAGTTGTAGAATAAACTTATGAGTGACATCTGGAAAGTAACAACCATGCTAAGAT
GGCAAAACACACTGGAAACAATTGGGCCACTTGGCTTTCTTTTGTGATTGTTTTATAAGCCTGCTTTACCTCCC
CGTCTTGGAAACAAGTTTTAGTTTATTGCTTTGGAGACTAGAGCCAATAGTGTAATGTTCTCAAAGGAAACAGAC
TTGAGTTGTTGGATTAGAGGAACCTCAACTTCTAATTTTTTTTTGTTGTAATTATGGCACTGTCATGTTTTAA
CATTTGCAACTAGGGATAGTAAGTACAACATTTTTAACTCTCATTGGCAGACTACTACTAATCACAGACCACAA
GGGTAATGACCAAATTTATGTGGTTGTTACACTTCCATAGTTGTCTTAGCCGAATCCTTCCATATTCTTATGATT
ACTTGGGTTAAAGCTTCTGTGAGGACCTTTTGGCTCTTAAGATATCCTAAATATTTAAATATTTAGATATCCTA
AATATAGGATATAGAGTTTGTACCAAATATGAATGAATATTGTTCAAAGCAAGGAGTATGTTAAATGACCAGAC
ACCTGTTTGATAAATAGTTTACTGAACTAGCAGACGTGTGGAAAAAGAAATCAGATCTTGATTCTTCTGGGTTTTAT
ACTGGTTGTAAACAGAATGATATTAGAAAATGTTTTCTTGTGTTAAGTGGTAGTTGAACATAGAACTTGGGTAT

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FIGURE 1763B

TATAGATCACTTTTCACTTTTGGGAATGTTTGTATTGAACTTAATACAACTTTAACATGGCAAAAAAAAAAAAA
AAA

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FIGURE 1764

MVEADRP GKLF IGGLNTETNEKALET VFGKYGRIVEVLLIKDRETNKSRGF AFVTFESPADAKDAARDMNGKSLD
GKA IKVEQATKPSFERGRHGPPPPPSRGPPRGFGAGRGGSGGTRGPPSRGGHMDDGGYS MNFNMSSSRGPLPVK
RGPPPSGGPSPKRSAPSGLVRSSSGMGGRAPLSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSRGYGDRDGYGRDRDYSDHPSGGSYRDSYESYGNRSAPLTRGP
PPSYGGSSRYDDYSSSRDGYGGSRDSYSSSRSDLYSSCDRVGRQERGLPPSVERGYPSSRDSYSSSSRGAPRGAG
PGGSRS DRGGGRSRY

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FIGURE 1765

TCCCAAAGTGCAGGGATTACAGGTGTGAGTGAGCCACCGCGGCCGGCCTCTATCATTCTTGACTCAGCAGCTCC
ACCAAAATTGACATCCTAGCAAACACTGTGAAGGAATTAACCTAAGTGCTTCCAGAGCATCTCATGTAACCTCTA
TGGAGTAAGTCACCTTTTTCTGTAAACATGTGGCTTTTGACCTTGATGAAGACTTTGACTTCTCATCCCTGTCTACA
TGGAGGAAGATGATTTCAGTGGTGGGGAAAAATGAACCTCGGTAACATTTCCAATGTCCTTCAAGAGGGAAACAAGT
TCAGTGTATCATCGTGGCATTGTTAGTTTTTTTTTTTTTAAATCAGTTTTTTAGATACAACCTTTATTTTTTTA
TACCTACATAGCACATGACTGGGGGGATAAAGCATGTATAAGTTGGGAGAGGGTAAAGAATGTGTGACTATGTAT
ACAGAAAATAGACTAAAATGTGCAGCAAAATGATATATACTGTAATCTGGTTTTTGAAGTATCTACTATTCTGGA
ATATTGTTAAACAACCTTTTGCTTTTGAAAAAAAAGGTGCCTTGATTTCAGTTGCGTGACTTAGAACATTCATCC
TATTTTATTGTGATTTTAAATGTCTTCTGACCCCAAACCTGTGTTTTTGGTTGCAGTCTGGCGGCTGCAGGCATAG
CGTCGGTTTTGTTCCAATAACAGAGACCAAAGAGTTAATCAGATATGGTTCAGCTGCTACAATTGTATGATTCAA
AGGCAATTTAATCACCCCAAATTTCCATGGCCCCCACAGTCAAGACCTGCCATTTCGTTTTCTCTTGCAGGTTGGA
GTAAATTTGCACTTTGAATCATGTGGGTCATTTGGGGACCTTGTTCTTTTCTATTTTGCTTTATTAATAAAGGAA
CTTGTAGAACCTC

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FIGURE 1766

MIQRQFNHPKFPWPPQSRPAIRFLLQVGNLHFESCGSFGDLVLFYFALLIKELVE

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FIGURE 1767

GGCACGAGGGGCACCTTGGCGAGGTGGCGCTGCCGGAGGCTGAGGGCTATCTACACCATCATGCGCTGGTTCCGG
AGACACAAGGTGCGGGCTCACCTGGCTGAGCTGCAGCGGCGATTCCAGGCTGCAAGGCAGCCGCCACTCTACGGG
CGTGACCTTGTGTGGCCGCTGCCCCCTGCTGTGCTGCAGCCCTTCCAGGACACCTGCCACGCACTCTTCTGCAGG
TGGCGGGCCCCGCGCAGCTGGTGAAGAACATCCCCCTTCAGACATGCCCCAGATCAAGGCCAAGGTGGCCGCCATG
AGCCCTGCAAGGGCTTCGTCAGGACTGGGGCTGCCGACGGGCCTGGGCCCCGAGACTACCTGTCTCTGCCACT
AATCCCACAGCATCAAGCCTGTTTGCTCAGCGACTAAAGACACTTCGGGACAAAGATGGCTTCGGGGCTGTG
TTTTCAAGCCATGTCCGCAAGGTGAACCGCTTCCACAAGATCCGGAACCGGGCCCTCCTGCTCACAGACCAG
CACCTCTACAAGCTGGACCCTGACCGGCAGTACCGGGTGATGCGGGCCGTGCCCTTGAGGCGGTGACGGGGCTG
GTGACCAGCGGAGGAGACCAGCTGGTGGTGCTGCACGCCCCGCGGCCAGGACGACCTCGTGGTGCTGCCTGCAC
TCCCGGCCGCCATTGGACAACCGCGTTGGGGAGCTGGTGGGCGTGCTGGCCGCACACTGCCAGGGGGAGGGC
TACCCTGGAGGTTGCGCTCTCCGACTGCATCCCACTAAGCCATCGCGGGGTCCGGCGCCTCATCTCCGTGGAG
TAGGCCGGAGCAGCCAGAGCCCGATTTCCGCTGCGCTCGCGGCTCCTTCACCCTGCTCTGGCCCAGCCGCTGA
GCCCCGCACCCGCCGCACCCCGAGGCCGCCAATTGTCCGCCCCGCCAGCGCTGCAAATAAACCTTCTGAGTCAG
CAAAAAAAAAAAAAAAAAA

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FIGURE 1768

GAGCTAGTGACAGGAGGGGCCGGGCTGGTACTTCAGGCGCCCAGGCCGGCGGGGCGCGCTCCGGCGGGCTCCTGTC
AGCGGCGGGTGCGGCGGATCCCAGGGCAGCCTTCGGGCGGCGGCGCTGCCTGGTGCGTCGCGGCGTGGTCCTCCG
GCGGCTGTCCGGGGCGGTAGGAGTTGGCTGCGGGATGTGCTCAGCCGGGGAGCTGCTGCGGGGCGGCGACGGCGG
GGAACGCGACGAGGACGGGGACGCGCTGGCGGAGCGGGAGGCGGCAGGGACCGAGTGGGATCCCGGGGCGAGCCA
GCGGCGGCGCGGACAGCGGCAGAAGGAGAGCGAGCAGGATGTTGAAGACTCACAGAACCACACTGGTGAGCCGGT
TGGAGATGACTACAAGAAAATGGGAACACTTTTTGGTGAAGTGAACAAAAACCTTATCAACATGGGCTTCACAAG
GATGTATTTTGGAGAACGAATAGTGAACCAGTAATAGTCATTTTCTTTTGGGTTATGCTGTGGTTCCTTGGCCT
GCAAGCCCTTGGACTAGTTGCTGTTCTTTGCCTTGTTATTATTTATGTGCAACAGTAAAACATGGCCGAATTGAA
TTGTTTGACATTTGGTAGCCATATATGTAATTGAAGAAGTTATATATTTCACTTTTTGACAACCGAAAAAGTTTG
CCTTGTTTCAAATCATGTGCTGGCTGTTTTGTAAGTAAATTTATACATGGATGTCACTTAAACTAAACTCTTGA
TCATAACAGGGTTGAATATATATTTTGAATATACATTAGCTTATTCAAACCTCTTGTTTCACTACTGTGATCTCT
GTCTCCTTTATACACCTCTATCCCATGCCAAATCTTAAGTAACACCACAGAAAGTGAACAGGGAAAAATAACAG
GACATGGAATTCAAATCAAGCAATATAGTTCTTATAAAGAGTTCCAATAAAACATTTCAGAAGAAAAAGTATGAA
ACAAGCTAAAAGTAAGTTTCACTTAGAAAACTTCTCCCACTCACACTCCCAACAAATAATCTCATATTATTTG
GGAATATTTGGATTTCAATTGTCCCTACCCAGCCTAACTAAGGTAAATGATAATTAGCATACACTACCTTAAT
ATTGTGATGAAAATCAGTAAAGATAGAACGTTTTCTAAAGGTCAAAAATAATATATTTATTACTGGGGAAAG
CTCCAGGTTAAATATAACTTTTTTAAATGTAACATTTGGACCTAGACCTACTTTAATATATCATTTGAAGTTT
CAGACAATTTTGGTGCTAATTACTTTTTGTGAGTTTTTAAAGTCTCATAGCCTAGTTGACTGCACCCTATGGTAA
TGCCATATTTTCTTGATCTAACAAGTTGCATATTTTTCTAGAGAGACATTTTCAGTGTATTTTTTTTAGAA
ATTTATAATTTTATAGTTCTTTTATAACACTTATTCTGAGTTTTGAAACAATGTATTTCTATCTTGACATGGAT
TTTTTCACAAAAAATTTGTATTTTACTGTGTTTTTCAGGAAAAAATCAGATCATTTTTCTTTGATATCTATATC
AGAAAGGTACAATATTAACAGTATAAAACCAAATGCTTAAATTTGGAACCTAGCCAATTTTGATAATCTTTTTCT
AAGGCTAAAGTCACATCAGTAATTGGCTAGCCATGTTATTAAGGTGTCTTAATTCAGCATTTTCAGGTTTTATAT
TGAAATACGCATTTCTTTAAATATTCTTTGAAAATGGAGAATGGCTTTAGTGATATTTTGGGTTTTGTTAGAGAA
CCTAAAATCTTTACACTTTCATCTCAAAGATTATAAAGGAAAGGGGGTAGTTAAGATTTAGAATTCAGTTAAA
TTTCAGAAATTGGGGCAGTCAGGCATTTGTATCTTTGGTAGGGCAACAAGTAAAACATGTAGAGTGCTTGCTATC
CCACTTCATAAAGCTTTTACCCAATCTTATTTCTAAACCTCTGTGCATTCTTAGTGCTTCTCATTCTGAAACAG
AAAATAAGGAAAAACATTTAAGTTTCTTAAATCAGATAATCCTAAACAAAAATGTTAGTCAGGGTCACTA
AAAAGTATTGCACATTTATATAAATACAGTCCTTTTAAATTTGACTTTTAAAAACAAAAGACTTTGTACGATA
TTGTGTTTTTATTGCTTTTGCAATATTTTTATAGTAGCCTTTATGAACTCAGTATAAGTGCAAGTTGTTTGAAAA
GGTGTTTTTATTAGTGACAAATAGAATTGTGAGGTTTTCAATAGATGTCATGAGATTTTGTATATCTACATAAAA
TATCAGTACATTTTTTTCTAATGCTACTGGAAATTTTACTTTTCCCTTGCAACACATAAATGATATGATGTACAA
AATAACAGCTCTGGTTCCACCAGTACCTAATGTTGAAAACATTTTAAAGTAATTTTTAATACTAACTATTTAGT
ATACTGTCAGTACTGTACATCTGCACACTGGTGTTAATAGGTATATATTAAATTATATAAAGAAATAAAAAAA
GAAAAAAAAAAAAA

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FIGURE 1769

MCSAGELLRGGDGGGERDEDGDALAEREAAAGTEWDPGASQRRRGQRQKESEQDVEDSQNHTGEPVGDDYKKMGTLF
GELNKNLINMGFTRMYFGERIVEPVIVIFFWVMLWFLGLQALGLVAVLCLVIIYVQQ

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FIGURE 1770

GGAACGAGGCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATGGATCCCGTACCCGGGACAGACTCGGGCGCCG
CTGGCTGGCCTGGCCTGGTCTGTCGGCCTCTGCACCCCGCCGCGGGGTTTCAGCGCGATCTCCTGCACCGTCGAG
GGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTGCCTTAGTTCTCTGGGCAGC
CTAGAGAACCCGCAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAGCCCCCTGCCGCTGGGCTTC
TCCCCGCTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCATGTGTGTGAAGCTGTTGCC
CTGGGAGCCACGGACACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGACAGTGCCTGGATACCTTCGA
ATAGGGGACATGGGCGGCTTTGCCATCTGGTGAAGAAGGCCAAGGCCCGAGGCCAGTGCCCAAGCCCCGAGGT
CTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGGCGGCCTCCTGGAGCGGACA
GCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGAGGCCTCCAGCCTCTATGGC
ATCTCAGCCATGGATGGGGTTCCCTTCACACTCCACCCACGATTTGAGGGCAAGAGCTGCAGCCCCCTGGCCTTC
TCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAACTACGGCTTCGTGGTGGAG
AAGACCGCGGCTGCCCGCCTGCCCCCAGCGTCTCATAGTCCCTCACCTTCCGCGGAAAGAGCCCCCTTACTCC
ACCTCCCCGCCAGCCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCACTCACTGCATCCTGGGAACC
TTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGAGGAGGGGGCGGGTCGAGGC
TGCGTGGTGATGGGGTCTCCGCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGACAGAAGCCAGTGCCTTTAAG
TCATTGTGTCAAACCCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCCTGGCAATAAACACTACCCGGTTCTC
GCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1771

MDPVPGTDSAPLAGLAWSSASAPPPRGFSAISCTVEGAPASFGKSFAQKSGYFLCLSSLGSLENPQENVVADIQI
VVDKSPLPLGFSPVCDPMDSKASVSKKKRMCVKLLPLGATDTAVFDVRLSGKTKTVPGYL RIGDMGGFAIWCKKA
KAPRPVPKPRGLSRDMQGLSLDAASQPSKGGLLERTASRLGSRASTLRRNDSIYEASSLYGISAMDGVPF TLHPR
FEGKSCSPLAFSAFGDLTIKSLADIEEEYNYGFVVEKTAAARLPPSVS

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FIGURE 1772

TTCGGCAGAGCCCTTGCGCGCTCTTGAATACCTGCKTTCTGTAGCGCTAGTTCTCTTCAAGATTGCTTAGTGTC
ATTTCAATTCGGTTTCTTTTCTCGCCATGTTTTCTGTGCGGAATTACGGTTCGTTTTGGTTCTATGTACTCTCTA
AAATGTTATCGTTTTTCATTTGTCTACTAATTTTCGTGCATTTGTTACTACTGAGTTTCTTAATATCTGACTGGC
CTCCGCCCACGGGCTCTGCAGAXCATAAAATACTCAGGCTGATGGTAGTGCAGAGACTCTCCCTCCTTGATCAGC
AAACGTTGGTCTGAGGCTTGAGGGATGGAGCAACATTTTCTTGGCTGTGTGAGCGGGCTTGGGATTCCGCAG
TGGCGCCAGAGCCCCAGCCTCCACCTATTGTGAGTTCAGAAGATCGTGGGCCGTGGCCTCTTCCTTTGTATC
TACTAGGAGAGTACTCACTGGACAGCTGTGATTTGGGACTGCTTCCAGCCCTTGCTGGCGGCTGCCCGGAG
TCTACTGGCAAAACGGACTCTCTCCTGGAGTCCAGAGCACCTTGAACCAAGTACAGCGAAGCCCACTGAGTTCA
TGGCCGGGGACACAGAAGCAGCAAGARGCACCCGTAGAAKARGTGGGGCAGGCAGARGAACCCGACAGACTCA
TCCRCAGCTTCCCTGGAGCAGTCCTCTCCATCCYTGGGACAGACAGCAGGACACCGAGGTCTGTGACAGCG
TCCCTTTTGGAACGCCGCCATCCTCCTGCCCTCCAGCCGTGGCGCCACCTCCCGGGTTTCTCAGACTGCCTGG
TGGATTCTTCGCGTTGGTTTTTGCCGCGTTCTCTGTACTCTGGGCGTGCTGTTACGGATCTGTGGAGCTAAGC
TCTTAGATAGCAGCAGAAGGCTTTTTGGATTCTCCTCCTTGAAAAGATTCTCAGTTACCAAACGTCTCCACCT
AGAAAATAAAAATACATTAAGATGTTGAXAAAAAAAAAXAAAAA

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FIGURE 1773

MLSFFICLLIFVHLLLSFLISDWPPPTGSAXHKILRLMVVQRLSLLDQRKRWSEA

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FIGURE 1774

GAATCTCTCGCGGGCAGCAGGGCGCGCGCTGCACGCACAGTACTAGGTCAGGTGGTGCTCCCGGGTGAGGAGCTG
CTCCTGCCGGAACAGGAGGACGCGGAAGGCCCTGGGGGTGCAGTGGAGCGACCGTTGAGCCTGAATGCTAGAGCG
TGCTCGCGGGTGCGCGTTTGTATGCGGTCCGGGCCTTCGACGCTGTGGGGACCGCCTGCTGGTCACCAAGTGCGG
CCGCCTCCGTCACAAGGAGCCCGGCAGTGGAGGCGGCGGGCGGTGTTTACTGGGTGGACTCTCAGCAGAAGCGGTA
TGTTCCAGTAAAAGGAGACCATGTGATTGGCATAGTGACAGCTAAATCTGGAGATATATTCAAAGTTGATGTTGG
AGGGAGTGAGCCAGCTTCTTTGTCTTACTTGTCAATTTGAAGGTGCAACTAAAAGAAACAGACCAAATGTGCAGGT
TGGAGATCTCATCTATGGCCAGTTTGTGGTTGCTAATAAAGACATGGAACCAGAGATGGTCTGTATTGACAGCTG
TGGACGAGCCAATGGAATGGGTGTCATTGGACAGGATGGTCTGCTTTTTAAAGTGACTCTGGGCTTAATTAGAAA
GCTATTAGCTCCAGATTGTGAAATCATAACAGGAAGTGGGAAACTCTATCCACTGGAGATAGTATTTGGAATGAA
TGAAGAATATGGGTTAAGGCAAAAACCATCCAGCAGACTTTAATTTGGCAAACATTTTAGAAGCTTGTGAACA
CATGACGTCAGATCAAAGAAAACAGATCTTCTCCAGATTGGCAGAAAGTTGATATAGGTGGACTTTTTTACAGGT
CAGTTGAGGCAAAAACTATGGGTTTTTTTCAGGTGAACCTCCCCATTAAATACTCAGAAGATAAGGTGTGAAT
GTATGTATTATTAGAGTCCGAAAGTATTTTTATAAGTTACTGGTTTTACCCACGCTTTTGTGGGAGAGAAAATC
ATTGCAAAATCATTTTTTTTTTGTTCGGTACAATAAAGTTTACTAAAAAACAAA

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FIGURE 1775

MLERARGCAFVCGPGLRRCGDRLLVTKCGRLRHKEPGSGGGGGVYWDSQQKRYVPVKGDHVGIVTAKSGDIFK
VDVGGSEPASLSYLSFEGATKRNRPNVQVGDLIYGQFVANKDMEPEMVCIDSCGRANGMGVIGQDGLLFKVTLG
LIRKLLAPDCEIIQEVGKLYPLEIVFGMNGRIWVKAKTIQOTLILANILEACEHMTSDQRKQIFSRLAES

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FIGURE 1776

GAATTCGGCACGAGCAAATGTTGAACCAATTATGTTTTGGTGGTGGTGTTCCTTAGCTGTTGAATCCTGAATGGTT
TATAAAGTGAAGTAGCTGGCTTAATGCAGCCAGCGTTCTGGGCAGCAGAACATATTCATTCTTACTGTAAATTCT
ATTTGCTGCTTCCAAAGGTGATGATTTTCAAGCAGACATGTTCTATATGGTCTGTGTTTTAGGATCTGGTGCCCA
GCCTCTATCAGAGCTTGCCTACCTGGCAAAGCTGCCTACCCTTCAAGTGGGAAAATATAATCCACTGTTTAACAA
GGCTCACCCCTCTCCACCCTGTCCTAACGACCTTTTGTGAATGTGCTGTGATATTTCTTGCTCAATAGCAAGGTG
GTAGCTCTGCTTTCATTTTAAGAAAGTGGAGGCTGAGGGCATTGTATCAATACTGTTGCAACTCCAAGAAGTTTT
CCTTGTAATAATTAAAGGAAAGATCTTGTTATTGATTAACCATTTTCTTATGCCTTGCTATTGACATATTCATGCT
CTTCTACGCTCTAGTGGCTGAAAATGTTTGCATTTGTTCAATTTGACTAATGGTGTGATTTTTGKYYCWATATTAT
TAGACCTGTAATGTTTTAAATGTATTTTATTAAATTTGGACTGGATGTATGKCCTCTAGCAATACGAGGTACTT
TCTAAACTATTAAGGGAGGGGTTGTAYCCTCATGTTGAGATAAGATGATGGTCGTTTAAATTTTGCAATTTTTTT
TGGCCTGCAGGGATATTTTGTGTTTATGTGTCCAAAAAAGGAATAAATTGGCATTCTTGCGCCAAAAGTTGTTTT
TCCTGTCAATTGTCTAATAAGTATGCAGTACACTGTAATGGCAACATACATGGTTGCTTTATAAAAACAGTTTCC
TCAGTATGAGAAATTTTACAAAGAACAGTGGAAAACTTTGTGTTTTTAACTCTTGGGTCTCCCTATTTTTAAAA
ATTGCTATTTGGTATACAATTATTATGTGTCAATTAAACTAAAATAAACTTTTAAAAAARAAAAAAAAAAAAA
AAAAAAAAAACTCGTA

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FIGURE 1777

MFYMVCVLGSGAQPLSELAYLAKLPTLQVGKYNPLENKAHPLHPVLTTFCECAVIFSCSIARW

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FIGURE 1778

GGGGAGATCCGGCTAGAGGGGAGGCTCTGACATCTCCTTCCTTCCTGGTTCTGCAGCAGCTGCTGCCACTGCTC
AGCGCGGTGAGGAGGGAGCCGGTGACTCGGAGACGGTGACTCAGAGGCAGAGCGGCGCAAGGGCCAAGGAGTACT
GGCGTCCATGGACCCTGGGGACCCCGTCAGGAGCAGGTGACATCCTTCCCCTTCCACCCTGCTCCCTGCTCTACA
TCCCCAGCAGGGAGTGCCCTCTCCCTTCTCCATGGACTTCCAAGAGAGGGACCCGCCCTTCTGCCTGAGAGCGC
* AJICCTCAAAGCCCAGCAGTGCTCAGCAGGCCTCTGAGCTGTGGGAGGTGGTGGAGGAGCCTCGGGTCAGGCT
GACAGAGGGTGTATGCCTGAGAGGCAGGAAGGTCACTGCTCAAGAGGAGGAAGTGGCCTCTGAAGGGCTG
ACAAGAGATACTTTGTGCTCGAGGACGGGATCCTTCATTATGCAACAACCCGGCAAGACATCACCAAGGGGAA
GCTCCATGGCTCCATCGATGTCCGGCTGTCCGGTCATGTCCATCAACAAAAAGGCCAGCGCATTGACCTTGACAC
TAGACAACATCTACCACCTCAAGATCAAATCCCAGGACCTATTCCAGAGCTGGGTGGCGCAGCTGCGTGCCCA
GCCTAGCCACCGCCTGGACATGCCCCGTGGCTCACTGCCAGTACTGCTCACCAGGAAGGTTCTTGCTGGTGCCCA
GCTCCAAACAGCAGCTACTGCCTCAGCCCTACCTGGGCTTGGACCGCGGGAGAAAGTGTCTTCTTGCTGAGGGA
ATGATGGGCTGGACCGCTGCTCTCATGAGCTCTCTGAGTGTGAGGGGAAGCTCCAGGAACACAGGCTCCT
CAGAGCCTGGAGTCCCTGCACCGAATCCCCTCAGCCCTGTTATCCCCACACACCAGGCTCAGTGACAACCGA
AAGACCCAAGAAGGGGAAACGGACAAGCCGCATGTGGTGCACCCAGAGCTTTGCCAAGGATGACACCATTGGACG
GGTTGGTCTCTCCATGGCTCTGTTCCCAACCTGTCTCGCTACCTGGAGTCTCGGGACTCCTCGGGCACCCGTGG
GCTGCCACCCACAGACTATGCCACCTGCAGCGCAGCTTCTGGGCCCTGGCCCAGAAGGTGCACAGCTCCCTCAG
CAGCGTCTTGCCCGCCCTCACCATGGAACGGGACCAACTGAGGGACATGCACCAGGGCTCAGAGTTGTCAAGAAT
GGGGGTCTCTGAGGCCTCCACTGGCCAGAGGCGCCTCCACTCACTGTCCACCTCCTCCGACACCACGGCGGACTC
TTTCAGCTCCCTCAACCTGAGGAGCAAGAAGCTCTGTACATGAAGGGGCGGAGCTCACCCCCAGCTATCGCA
GACCAGCATCCTGTCCCTTGCTGATTCCCACACGGAGTTCTTCGATGCCTGCGAGGTTCTCCTCTCCGCCAGCTC
TTCTGAGAATGAGGGCTCAGAGGAGGAGGAGTCTGTACCAAGTGAATCACCACCAGCCTGTCTGAGGAGATGCT
GGACCTCAGGGGAGCTGAGCGCTGTGAGAAAGGGGGGTGTGTTCCAGGGAGACCCATGGGGCCACCCCGCCGTG
CTGCCTGCCGGCGGCCAGCGGGCCTGGGGCTGACGTGAGCCTGTGGAACATTCTGCGCAACAACATCGGCAAGA
CCTGTCCAAGGTGTCAATGCCTGTGAGCTCAACGAGCCGCTCAACACTCTGCAGCGGCTCTGCGAGGAGCTGGA
GTACAGCAGCCTCCTGGACCAGGCCAGCCGCATCGCCGACCCCTGCGAGCGCATGGTGTACATCGCAGCCTTTGC
TGTCTCGGCCTACTCCTCCACATAACCAGGAGCCGGCTGCAAGCCCTTCAACCCTGTCTGGGGGAGACCTACGA
GTGTGAGCGGCCTGACCGAGGCTTCCGCTTCATCAGTGAGCAGGTCTCCACCACCCCTTATCTCGGCCTGCCA
TGCAGAGTCTGAGAACTTCGCTTCTGGCAAGATATGAAGTGAAGAACAAGTTCTGGGGCAATCCCTGGAGAT
TGTGCCTGTGGGAACAGTCAACGTGAGCCTGCCAGGTTTGGGGACCACTTTGAGTGAACAAGGTGACATCCTG
CATTACAATGTCTGAGTGGTCAAGCCTGAGCCTGAGCACTATGGGGAGGTGCTCATCCGAAACACACAGGACAG
CTCCTGCCACTGCAAGATCACCTTCTGCAAGGCCAAGTACTGGAGTTCCAATGTCCACGAGGTGCAGGGCGCTGT
GCTCAGTCGGAGTGGCCGTGTCTCCACCGACTCTTGGGAAGTGGCACGAGGGGCTGTACCGGGGACCCACGCC
AGGTGGCCAGTGCATCTGGAACCCAACTCAATGCCCCCGACCATGAGCGAACTTCGGCTTACCCAGTTTGC
CTTGGAGCTGAATGAGCTGACAGCAGAGCTGAAACGGTGCCTTCCACCGACACGAGACTCCGGCCAGACCA
GAGGTACCTGGAGGAGGGGAACATACAGGCCGCTGAGGCCCAGAAGAGAAGGATCGAGCAGCTGCAGCGAGACAG
GCGCAAAGTCATGGAGGAAAACAACATCGTACACCAGGCTCGCTTCTTCAGGCGGCAGACGGATAGCAGCGGGAA
AGAGTGGTGGGTGACCAACAATACCTACTGGAGGCTGCGGGCCGAGCCAGGCTATGGGAACATGGATGGGGCCGT
GCTCTGGTAGCCCTGGCCCCGGGGGAGGAGGCTCTGGTTCTCACTCCTCCTGCCTCCACCCCTACCATGGAC
ACATGGGTGAGGCCGGGCTCCCCGCTCACTGCCCTTCTGCCCATCTCCAGCATCTTCTTCCCCTTCCCTGGCCC
TGCAGGGCCTTCTCCAGCTCCCTTTGGTTAGTCCCTGGCCATCCCTCCTGTCTGATCCCTTCTCCCTAACTGC
AAAATGCCTGCAGCTTCCAGCTCCTTCGTCCCTGATCCTCAAGCGGTTCCCTCCCGTTTTCAGCTCAGCGGATCCC
CCAGAGTGGAGGAGGCTCTCCATGAGGAGGGGAGCAGCCCAAGGCACCTGTCTCTGACCCACCGGCAGCGAGT
CGCGAGGTGTGAGTGTAAGTTCATGTAGGAGAGTGTATGCGTGTGCGCCTGTGCCCTGCTTGAGGCAAGCAGGG
CTCCCTCATGTAGCCCCGCTTCCCCCTGCTGGGGGTCCACCACATCGCTGCTCTTTCTCACAGTCTGCCTCTGA
TGAGGGCGAATTGCTATGACATTCCAAGCTCCAATAAAGACTGTCCAG

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FIGURE 1779

MDFQERDPPFLPESAQSSKPSSAQOASELWEVVEEPRVRLGTEGVMPERQEGHLLKRRKWPLKGWHKRYFVLEDG
ILHYATTRQDITKGKLHGSIDVRLSVMSINKKAQRIDLDTEDNIYHLKIKSQDLFQSWVAQLRAHRLAHRDMPR
GSLPSTAHRKVPGAQLPTAATASALPGLGPREKVSSWL RSDGLDRCSHELSECQGKLQELHRLLOSLESILHRIP
SAPVIPTHQASVTTERPKKGKRTSRMWCTQSFAKDDTIGRVGR LHGSVPNLSRYLESRDSSGTRGLPPTDYAHLQ
RSFWALAQKVHSSLSSVLAALTMERDQLRDMHQGSELSRMGVSEASTGQRLHSLSTSSD TTADSFSSLNPEEQE
ALYMKGRELTPQLSQT SI LSLADSHTEFFDACEVLLSASSSENEGSEEEESC TSEITTS LSEEMLDLRGAERCQK
GGCVPGRPMGPPRRRCLPAASGPGADVSLWNILRNNIGKDL SKVSMFVQLNEPLNTLQRLCEELEYSSLLDQASR
IADPCERMVYIAAFVSAVSSTYHRAGCKPFNPVLGETYECERPDRGFRF ISEQVSHHPPISACHAESENF AFWQ
DMKWKNKFWGKSLEIVPVGT VNVSLPRFGDHF EWNKVTSCIHNVL SGQRWIEHYGEVLIRNTQDSSCHCKITFCK
AKYWSSNVHEVQGA VLSRSGRVLHRLFGKWHEGLYRGPTPGGQCIWKPNMPPDHERNF GFTQFALELNELTAEL
KRSLPSTDTRLRPDQRYLEEGNIQAAEAQRRIEQLQDRRKVMEENNIVHQARFFRRQT DSSGKEWWVTNNTYW
RLRAEPGYGNMDGAVLW

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FIGURE 1780

AGCGGAAGGGGCCTTTTCGGAACGATTTGGAACGAAAGGAAGTGGAAGAAACGCGGAACCATGCGCGCTGTGGTTG
CTGTTTTCGGTGGTCTAGGGAGGAAGAAGTTGACACACTTGGTAACGGCTGCTGTCAGCCTTACACATCCCGGGA
CTCACACGGTGCTTTGGAGAAGAGGTTGTTTACAACAGGTATCCAGCAATGAGGACCTGCCCCATTCAATGGAAA
ATCCTTATAAAGAACCTCTTAAGAAATGTATCTTGTGTGGAAAGCATGTAGATTATAAGAAATGTACAGCTTTTGT
CCCAGTTTGTCTCTCCATTTACTGGATGCATTTATGGAAGGCACATTACAGGTCTTTGTGGGAAGAAACAGAAAG
AAATCACAAAAGCAATTAAGAGAGCTCAAATAATGGGGTTTATGCCAGTTACATACAAGGATCCTGCATATCTCA
AGGACCCCTAAAGTTTGTAACTCAGATATCGGGAATAAATTCTATCACGTTACCACTAATAAACTTATTTTACAG
TAAGTGGTTGTATGATGCCAATACTGACTCAAACCAACCTTTGGATAGAAAAGTGTTTGAGGAGTGAGGTAAAGA
ATGACACTTCCCCTTCATACCAATGTCCATTAAAGCAGATTGCTTATTTAAATGTTAACACTCATCACATTTTAT
CTATGTTGAATAAAAGTGGTTCGTGTGATTGTCTTTATATCTGATCCCCAAATAGCTCATACAATAATCCATT
CAATAGAATGGAATTAAACTGTTTCAAGATGATTTTCCAAGTAGCAAATATAAGTATGCCTGGTTAAGATATCTT
CCCTTTGTAGAAATGTTACATTGGGATGGATAGTGGTGCTGTCACAGAAGGACAAAATATTCCTAGACGAGTCTA
TCCTCAAACCAAGTAGTGTCTTTTACATGAAGAGATGATTTACACCTAATAGACATTGAATATGATAGACATACAT
GTATATATGTATCAGTTCTGAGTTCCACTGGCCTATCCC

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FIGURE 1781

MAAVVAVCGGLGRKKLTHLVTAAVSLTHPGTHTVLWRRGCSQQVSSNEDLPISMENPYKEPLKKCILCGKHVDYK
NVQLLSQFVSPFTGCIYGRHITGLCGKKQKEITKAIKRAQIMGFMPVTYKDPAYLKDPKVCNIRYRE

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FIGURE 1782

TATGTTAAAGTCTGGGACATGTTAAAAGGAGGACAATTGCTAGTATCTTTGAAAAATCATCACAAAACCGTGACA
TGTTTATGTCTAAGCAGCTCTGGACAGAGGTTACTTTCTGGCTCACTGGATAGGAAGGTGAAAAGTATACAGCACA
ACTTCCTACAAAGTAGTCCACAGTTTTGATTATGCAGCTTCAATTTTGAGTCTTGCCCTTGACATGAAGATGAG
ACAATAGTTGTAGGAATGACCAATGGAATACTGAGTGTTAAACATCGGAAATCTGAAGCAAAGAAGGAATCACTT
CCCAGAAGAAGAAGGCCTGCATATCGAACCTTTATTAAAGGAAAAAATTACATGAAGCAACGGGATGACATTTTG
ATTAACAGGCCAGCAAAGAAGCACCTAGAATTGTATGACAGGGATCTGAAACATTTTCGGATCTCTAAGGCACTC
GATAGAGTTCTTGGTCCCACTTGTACAATAAAGACACCCGAGATTACGGTGTCCATCATAAAGGAGTTAAATCGA
AGAGGAGTCCCTGCAAATGCGCTTGCAAGTTCGGGATGAGAAGGAAATCAGTCATGTTCTTAATTTTTTGATAAGG
AATCTTTCTCAGCCAAGATTGCTCCTGTTTTAATCAATGCTGCTGAAATAATTATTGATATATATCTGCCTGTA
ATTGGTCAGTCCCTGTAGTTGATAAAAAGTTTTTACTACTTCAAGGACTTGTAGAAAAAGAGATTGATTACCAA
AGAGAATTGTTAGAAACCTTGGGGATGATGGATATGCTTTTTGCCACCATGAGAAGGAAGGAAGGCACTTCTGTG
TTGGAACACACATCTGATGGATTTCAGAGAATAAGAAGATAGAATCACTAGTGTCTGCTAAATAAGACATATAAG
GACTCTGAAGTTGGAATAGATTGACTGTATTAAATGTTGGCGAGAGACTCTCTTTGATACATTAAAAAACTGT
TTGCAGAAGCAGTTCTGTGGAAGAGACTGGAATAATTATGGCCGGAAAAACAAGTACCCGTTTTAAGTAAGACATG
GTTTTCCATGTAATATTTTGAATTATAGCATCTTCACCTAGAAGATCTCAATTGTCTTAGTCACAGAGTAGGTTT
ATCTGGGATGGATATTAATTTTAATACAGGAGTGTTCTGTATCAACATTTGGGTTGGTATTAGATGGGAATTCA
AATATGAATCCTCTCTGGAGAGGGTCCAACCTGGGAATCCTGCTAAAGGAGCAAAGCCTTGATTACCTCTGGAAG
ACAACAAAAACAATTGGCAACAACAAAAAGCCTCTTTCTTGACTTTAATCAGTGCCTTTGGGATTTCTGGGCCCT
TGCTTAGCTTGCTTCCTGTCTCCTTGATATCTACACTTGCTTAGATCACATGCCCTGCTTCAGCTGGTAATGGG
ACTGCATCGGTTCCAAGTGTGGCAAGTAAGTTTTCGGCTCTGAAGAACTGACACTAGCTAGATTTGTATTACAGAG
TGTGAGAGCAAGCTCTACAGATAGACCTTATTGGACTACTTTTTTTTTTTTCTTCATGCAGCCTTTCTACCAAGT
TTTCACCTTGTTTCAGGTGAGGGAATGATAGAATTTGTCATTTTTCTTACAACAGCCTTTTCAGACTATTCTTCA
TATGTTTCAAGCTAATCTTGTAGCTAAGCTACCTAATCCTCTGAAAACCTGTTTTCTCTGATTTGTATTTAGATT
CTCCCCCATTATTACAAATCATATTGTATTTTCGGAACCCCAATGCAGAGCAGTTTGCTTTGAAAAATAGTTGTT
TTTAAAAGTTTAAATGTAAATAATTATTTTTTAGAAGTTTTTTTTTTTTTTTAAAGACAGGGTCTCGCTTTATCG
CCCAGGCTGGAGTACAGTGATGCAATCTCAGTCCACTGCAACCTCTGCCCTCCCGGGTTTAAGCAGTTCTCCTGC
CTCAGCCTCCTGAGTAGCTGGGATTACAGGTGTGCCCCACCACGCCTGGCTAATTTTTGTAGTTTTAGTAGAGAC
GGGTTTTACCTTACCGGGCTGGTCTAAAACCTCTGACCTCAAGTGATCTACCTGCCTCTGCCTCCCGAAGTGCT
TGGATTACAGGTGTGAGCCACTGTGTCCAGCCTGTAACCTATTATTTTTTATAAAGAGAGATTCTTATTTCTTG
GCTTTTTGATGTATCTGTTCTCTGATAGATAATCATTGGCTAGTAACTCCTAGTACACTGGTTTCACAGTTGCTAC
CTCTCCTGCTTTTCTCTAATTATTACGCCAACTCAAGTAGTTAAAAATCAGTAAGAAAAATGTCTTGAGCTAGAA
GAACCCATAGAGGAAGATTTTGTAAATGCGAATCTCCTCTCATAATTTTAGTTCTGTAAATTCAGGGTTTTTTTT
GTTTTTTTGTTTTTTTTTAAGCCGAAAAAATGCTTAATATGTTCCAGTAATGGTATTAAGTAAAAATTAATAAAC
GTATTAAGTTTAAACATATTAAATTAATTTAACATTTAGACTAACATTAACATTTAAATTAATATGTTAAGTGAAT
ATACTTAATATATTCTAGTACAGGTATGCTTGGAAATAGGGCGTTTCTTTTCATGAATTGATTTTCGTACAGCAC
AGTGGCTTATAAGGAACCAGCAGTGTTTTCCCTGAGTAATTATGAACCTAGTCAAGATCAGAAGCTGGGTTTTG
GGGTTGAGAAGAGTTCATTTATTTAAATAAAGTTTCTATTTAAAAACCTTT

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FIGURE 1783

MLKGGQLLVSLKNHHKTVTCLCLSSSGQRLLSGSLDRKVKVYSTTSYKVVHSFDYAASILSLALAHEDETIVVGM
TNGILSVKHKSEAKKESLPRRRRPAYRTFIKGKNYMKQRDDILINRPAKKHLELYDRDLKHFRISKALDRVLP
TCTIKTPEITVSIIKELNRRGVLANALAGRDEKEISHVLNFLIRNLSQPRFAPVLINAAEIIIDIYLPVIGQSPV
VDKKFLLLQGLVEKEIDYQRELLETLGMMDFATMRRKEGTSVLEHTSDGFPENKKIES

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FIGURE 1784

CGGGCCCGGGGTCTTCCCGCTCCGCGGCGCGCGCGCTTTGTTTCCCTGCCTCTGCGCTTCGGGCGACTCG
AGAGGGTCTCCCGCCGGGGTTGCGAAGGGGACGCGGCGGCAGAAAGGGCGGCCGACCCCGCCGGGACTCACAGGGA
CCCAGGAGTCCGCGCCCGGGAGGGCCGCGTGAGGAGAGCGAAGAGGGAGCCCCGAGCTCTGCGGCCCCGGGTGGC
GGGCCGGGGGCGCCCGTGAGCAGAGACCTCCCCGTCGACGGGGGGCGATGTTCCCTCACCCGTGGGCTCTTCGG
AGCCAGGGCATCCCGCCGCTGGGACCTGGACCCGCTCAGTGGGCACCCCTCAGGCTGCTCCATGGAGACCCCTG
TCTGCGCCCCGCTGGCAGTGCCGGCGTCCCGCGAGGGTTCGCCCTGCTCCCCACGCCCCGGAAGCCGTGT
GGGACCCAGGAATCTCTCCGCTGTGCCTGCGTGCCTTCGCTTCTGCGCCCTTGCCAAGCCCCGGGCGTCC
TCTCTGGGCCCCGGGCTGGGGAGCTGGCGGCGCGGTCCCCAGTGCTGCGGGGCCCTCAGGCCCCCTGCGCCCT
GGGCTGGGCCCCGGATGGCCTGAAGCACCTCTGGGCACCGACCGGGCGGCCCGCGCTTCTAACACCGCCGCC
GAGGATGCGGACGTCGCAGCGTGCCCCCGCCGCGGAGAGGAGGAAGAGGGCGGAGGCGGTTTCCGCACTTC
TTTCGCTCCTGTGCACCTCCGGGCGCTGCCCTGCGCCCCCGCACCCCTCGGGAATCTACGACCAGCTTCGCC
CCCCCGCTCGCCCGGCCCCGGGTCTCGAGCCTCAGCGTGGCCCCAGCCGCCAGCCCGCTCAGGAACCCAGT
TCGGGCTCCGTGCGCACCTGCGGGCCTCTCCACCGAGCCCGCGGGTCCCGGGACGGCGCCGCGGCCGTTCTG
CCCGGCCAGCCTGCCGAAGTCGATGGAAACCCCCCGCCGCGGCCCGCCCGAGGCTCCAGCGGCCAGCCCTCGACG
GCCAGCCCGGCTCCGGCCGACCCGGAGATCTCCGCCAGGAACATTCGATCGTCTGATCCGCGGTCGAAACTT
TGGTGTACGCGAAGGGCTTCGCCTTGGACACTCCGAGTTTTCGCCGGGGGCCAGAGCGGCCGCTGCGAAAGGG
CCGGCTCGGGGAGCGCCAAAGAAACGCCGGCTGCCGGCGCCCCCTCCGCGCACCGCGCAGCCCCGCGGCCCTGCA
CCGACGCTCCCCACCACGAGCACCTTCAGCCTCCTCAACTGCTTCCCCTGCCCCCGGCCCTGGTGGTGGGGGAA
GACGGAGACCTAAAGCCGGCATCCTCGCTTCGCCTCCAGGGAGACTCTAAGCCCCCGCCCGCCACCCGCTGTGG
AGGTGGCAGATGGGGGTCCCGCTGTCCCTGAGCCCCCTGGCCTCAAATTCGGGGGATCAACATGGATGAAAGC
TGACCGTGGGACTTCTGCCAAAGGGGAAAAGTTGGGACCATGGCCAAACCGCGGGCTTGAGGAGGGAGCCCCGTT
TCTCACATTTGTCCCCTTCCTTTACATTTTAGGAGCTGTGGGCAGAGGGACCTAAATAACAGTGATCTTCATTCA
AGCACCTAAGTTTTCGGGGTGACAGTCCCTCCCCCTCATCCTTTGCAGAGGAACCCAGGGCTGGAGTCGGGAGAA
GGCTGATGACATAGATTCCAATCCCTGCCTCCTTCCATCTCGGACCCTTGAGAGGAGGGCCTGCACCCAGTGGG
AGCAAAGGAGGCCACCGCTCAAAGACAGCCCCCTCACCCAAAAAAGGGGAGAAAGAGAGAGACCTCGGTGATGGA
CAAACCGTTGTTACTGTGTCTGTGGGCGAGCCTGGGGTTCGGGGCTGTGGTGGGGGTGGGGAGATGATTGGCAG
CTCCCTGGGGGCATCCCCACCCCCACTGTCCAGGCCCTTAACCCCTTGCTCCCCTCAGGCCTTCCCTAACGCTC
CAAGCACCGCTGGAGCCTTTAATGGGTGAGGGAACCTGGGTAAGAGGAAGATCACCCCTTCCCTGTCCCCCTTCT
AGGCCCCCTCAAGTGCAGGTGACCCCTAATTGGTGAGATCTTCAGCCTCAGCCGCCGACCTTTCCCTTTTGTCCA
GTTTTGGAGTTCCCGTTTTTTCCTTGTTCCTTCCGAGTGTAAGGTCTGGCCGGTGAGAAAGATTTCCCCAAC
CTTGATTAATCAGCCCCCTCCCCCAACTTACTTCCCTTAGGACGGGTAGGGCTGAGGGACCTCCTCTCCTGGAAA
GTGCTTACTTTGCCTGGGGAAGGGGCTAGACACTGTCCAGGGAAAGTAATAGAAGGTGGAAGAAATCAATAAAA
TCAGACCAAACAAGTCGCCTTTTCGAGGGCCTCCACCGATTTATGGATGAGAGGGGTGGAGGTGGAAGGCAGGCC
CAAGTCCATTCTTTGGACACCCAAACTCAGCCCCCTTAAAGAGTGGAACAAAACAAGCTGCACTTTGCAGAGGT
GGTAAATGAAAGGACTCTTGGCCTAACTTCAAGAGTCCCCTGGGGTTTGAAGGGGCAAAGTTTGAGTCTGGATGG
AACCTGGGCTGAGGTACCTTAAGCTTCCCCCGCAACACCCAGCCTCAGGGATTGCGGGAGTTGTCAGAGATCT
GATGGATCCGAAAGGGGCGAGGGCCAGGGGATTAGGTTTGGGGTCAGAGGTTCTGTTTTCCAGGGGAGGGGTGAGA
TAGGCCTGGATCATGCCCTCTGCCATGCCCTCCAGCTAGGAGGATCTTGAGTCAGAGAGGATTGGAAGTGCTTTC
TCCTCCACCCAGGTGAGGTGAGGGGAGCTTAGGTCTTAGGGAGATGGCAAGTTGAGGTATGAAGGGAAGCTGGGG
CTTTTGGAGCTGCCGAACAACTGAGGGACCCAGTGCGCCTTCCATCCCGCACTAGTGAATAGCGCCCCCTCTTCC
CCCGAAAACGAGGTGCGAGAGGAACAATTCCACGCTGGGGAAGGACTTGTCTCCTTTTCTGTGAAAATGCTTTG
TAAAAAGTTGTTATTGTTTGCATAGAGCAGATTCTTGAGAAAACTGTTTTGGACCATAAAAGTTTGTGTTGTTT
T

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FIGURE 1785

METLCPAPRLAVPASPRGSPCSTPRKPCRGTQEFSPCLCLRALAFCALAKPRASSLGPGPGELAARSPVLRGPQA
PLRPGGWAPDGLKHLWAPTGRPGVPNTAAGEDADVAACPRRGEEEEGGGGFPHFGVRSCAPPGRCPAPPHPREST
TSFASAPPRPAPGLEPQRGPAASPPQEPSSRPPSPAGLSTEPAGPGTAPRPFLPGQPAEVDGNPPPAAPEAPAA
SPSTASPAPAAPGDLRQEHFDRLIRRSKLWCYAKGFALDTPSLRRGPERPPAKGPARGAAKKRRLPAPPPRTAQP
RRPAPTLPTTSTFSLNCFPCPPALVVGEDGDLKPASSLRLQGDSKPPPAHPLWRWQMGGPAVPEPPGLKFWGIN
MDES

CGCGGTTTCGGTCCGGTGCAGCGCTACTTTTTGGTCCGGGTCGGCAGGGAGGCCGCGGCTACCGCATCACAGCTGA
CGTGAGGACTACGTGGGGCCGCTGCCGGCTCCGGGTTGCTGGGCGGCGGCCGCTGCTGAGCGCGGTCCGGCT
CGCCGTCTCCACCTCCTCGCGTCCGTAATCAGTGACGAGGTCCGCTACGTAAATCCCTTTGCGGCGGACAAATGA
CCATGGAAACAGTTGAATCCCAGCATGATGGAAGTATAACAGCTTCTTTGACAGAGAGCAAGTCTGCTCATGTGC
AGACTCAGACTGGCCAAAATTCAATCCCTGCTTTAGCTCAGGTAGCAGCAATTGCAGAGACAGATGAATCTGCAG
AATCAGAAGGTGTAATTGATTCTCATAAACGTAGAGAAATCCTTTCACGAAGACCCTCTTATAGGAAAATACTGA
ATGAACTGTCTCTGATGTGCCTGGTGTTCCTAAGATTGAAGAAGAGAGATCAGAGGAAGAAGGAACACCACCTA
GTATTGCTACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACAGTATGTATGCTGCAATTC
GATATGATACAGTGCTAGCTTTAAGTCTTCTCTTAGTTATATTGAAGCAAACTCAGGTTTTGGCATTAAATTGTTCC
ATTTTAAATGCATCATTAAATACCTAAACTGTATCATAGAATGAAAGTATATGTTAAAAAGTGAGATCTTTGTAT
TGACAGCTGTCATATAATTTTGAAAAGTAAAAATTTGACTGCCGAATATAGAAGAAAATTTTGGGGTAAAAAGG
AGAATTTTTCTATTTACATGTTTATATTAATCTCTAGTAAAACATTGTTTTTGTGTCTTTATGATGCATGCGA
ACATAAATGTCTGTATTTCAATCTTGTGGCTTTTGTACCACAAATTACATACTATTCTTACTAATCTGAGAGT
TTTCTAAAGTATGTTTTCAATGTTTCACTACTCTCTACTCTGTTAATTTGTGCTACAGTTTTTCTTAAAGAGAA
TGGAAAAATGATTTAATTTTTTAACTGTAGCAATTGGATAGATAATTTTATTTGAAATTTTACACACTGAAAGC
TCTAAATAAACAGATACATTACAAAAA

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FIGURE 1787

MTMETVESQHDGSITASLTESKSAHVQTQTGQNSIPALAQVAAIAETDESAESEGVIDSHKRREILSRRPSYRKI
LNELSSDVPGVPKIEEERSEEEGTPPSIATMAVPTSIYQTSTGQYSMYAAIRYDTVLALSL

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FIGURE 1788

ACATGACGGGCACGCCAGGCGCCGTTGCCACCCGGGATGGCGAGGCCCCCGAGCGCTCCCCGCCCTGCAGTCCGA
GCTACGACCTCACGGGCAAGGTGATGCTTCTGGGAGACACAGGCGTCGGCAAAACATGTTTCTGTATCCAATTCA
AAGACGGGGCCTTCCTGTCCGGAACCTTCATAGCCACCGTCGGCATAGACTTCAGGAACAAGGTGGTGAAGTGTGG
ATGGCGTGAGAGTGAAGCTGCAGATCTGGGACACCGCTGGGCAGGAACGGTTCCGAAGCGTCACCCATGCTTATT
ACAGAGATGCTCAGGCCTTGCTTCTGTGTATGACATCACCAACAAATCTTCTTTTCGACAACATCAGGGCCTGGC
TCACTGAGATTCATGAGTATGCCCAGAGGGACGTGGTGTATGCTGCTAGGCAACAAGGCGGATATGAGCAGCG
AAAGAGTGATCCGTTCCGAAGACGGAGAGACCTTGGCCAGGGAGTACGGTGTTCCTTCCCTGGAGACCAGCGCCA
AGACTGGCATGAATGTGGAGTTAGCCTTTCTGGCCATCGCCAAGGAAGTGAATACCGGGCCGGGCATCAGGCGG
ATGAGCCCAGCTTCCAGATCCGAGACTATGTAGAGTCCCAGAAGAAGCGCTCCAGCTGCTGCTCCTTCATGTGAA
TCCCAGGGGGCAGAGAGGAGGCTCTGGAGGCACACAGGATGCAGCCTTCCCCCTCCAGGCCTGGCTTATTCCAA
GAGGCTGGTCTTGAAATTCCTGAGCTCAAGCAACCTGCCGGCCTCGGCCTCCCAAAGTACTGGGATTACACGCAGA
AGGCACCATGCCCAGGCTAGATGTGTCTTATCCCAATCCTTTGGCAGGCATGCAGCTCCACAGGCGATTTCTTCA
AGCAGCTGAAGTGTTTAGCCCTCCTGGGTAAAGAGCCAGATAAGGAGAAATCCCTTTCCTAGGTTTGAATGTGT
TGTGAAAAAAAAAGAGAAATCCCTGGCTCCTGGAGCTGGTGGGAGACAAGATTAAGCAAACCTCCCTTGACATGTA
TCCCTTTGACCCCAAGCTCTGCCTCCTCCCTGACCACCCATGCCCTTTCCTTTAACTTCTCAAACAGATACCAGG
GCCTAAACTGCTTTACCTCCCCTCCTACTGAGTCAGGTTAGGTGGTGGGAGGTCACCCATTTCCGAGTTAAACCA
ATGCAATATGAGTAAACAAAGTCATGTGGGTATGTCTGGGGTAGAGAGAGGGGTAGCAAGTTCATGTGTCTCTCC
TTGGTCACATATCTCCCAAAGCTCCGATCCCTGCCATGGGAAGTGACAGGAAACATGAGGTCATGACCTGCAGG
CATCTTTACTGCAGCTCTGCCGGCCTGGAGGGGGAGAGGGGGAGGAAGAAGTATGCGCTGCACATTTCTGAGGCT
ACTGCATTTGCTTTCAAGGCAGAAATCTTGCTCTGAGCAGTCAGCGGCTCCAGTTTGGGCCCCGATAAGGAAGTTC
TCCGTGGCCTCCCTCAGGCAGAGCAGGGAGGAGGCTGACATTGCCAGTCTCTTCTGGGGCCCAAGGCAGGTTGCA
GGAGATCCAATCCCATAGACAGCTCTGGGCCTCTTGCAATTTGAGTTTTTTCAGAATTAACTGCAGTATTTTGGAA
AGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1789

MTGTPGAVATRDGEAPERSPPCSPSYDLTGKVMLLGD TGVGKTCFLIQFKDGAFLSGTFIATVGIDFRNKVVTVD
GVRVKLQIWDTAGQERFRSVTHAYYRDAQALLLYDITNKSSFDNIRAWLTEIHEYAQRDVVIMLLGNKADMSSE
RVIRSEDGETLAREYGVPFLETSAKTGMNVELAFLAIKELKYRAGHQADEPSFQIRDYVESQKKRSSCCSFM

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FIGURE 1790

CTATCTTAATTCATTTTATTCTACAAAATGCTACTCAACTGAAAGTGGAATGCTAACCCCCCTCCCCAAAAA
ATCGCAAGGGAAAGAAGTTTTAATATGTTCTTTCTTCCATAGCAGCAAGCTTTTTCTACAAGCTTTCTTTAGTG
CAAATACTGTAGGCTTGTATTACATATAGTAAAACAACAAAACAACAACAACAAAACCACCACCAGAAAGG
CTTCCAAACAAAGCTACTCCTCAATTTTCAAACTATACAAAGATTTTGAGCTTGCGGTTCTGCCTGGAAGGTCT
* TAGGAGACTCTCCAATGGGACCATTTCACCATTACTTAAAAAAAAAAAAAAAAAAGTGCCAGAAAGGTA
* AAATTCCCATAGGGCCATATGAACCATATACAACTTGTTTGCCTCCAGAGTCTTACAGCTGACTTTACTCC
* ATCATTAAACATATCTCAAATACAGATGCACAAAGCTTATTTTCTACTATACACCAAX

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FIGURE 1791

TTTTTCTGCTACCGTGACTAAGATGGAAGCGTTTTTGGGGTCGCGGTCCGGACTTTGGGCGGGGGTCCGGCCC
CAGGACAGTTTTTACCGCATTCCGTCCACTCCCGATTCTTCATGGATCCGGCGTCTGCACTTTACAGAGGTCCAA
TCACGCGGACCCAGAACCCCATGGTGACCGGGACCTCAGTCCTCGGCGTTAAGTTCGAGGGCGGAGTGGTGATTG
CCGCAGACATGCTGGGATCCTACGGCTCCTTGGCTCGTTTTCCGCAACATCTCTCGCATTATGCGAGTCAACAACA
GTACCATGCTGGGTGCCTCTGGCGACTACGCTGATTTCCAGTATTTGAAGCAAGTTCTCGGCCAGATGGTGATTG
ATGAGGAGCTTCTGGGAGATGGACACAGCTATAGTCCTAGAGCTATTTCATTCATGGCTGACCAGGGCCATGTACA
GCCGGCGCTCGAAGATGAACCCTTTGTGGAACACCATGGTCATCGGAGGCTATGCTGATGGAGAGAGCTTCCTCG
GTTATGTGGACATGCTTGGTGTAGCCTATGAAGCCCTTCGCTGGCCACTGGTTATGGTGCATACTTGGCTCAGC
CTCTGCTGCGAGAAGTTCTGGAGAAGCAGCCAGTGCTAAGCCAGACCGAGGCCCGCGACTTAGTAGAACGCTGCA
TGCGAGTGCTGTACTACCGAGATGCCCGTTCTTACAACCGGTTTTCAAACCGCCACTGTCACCGAAAAAGGTGTTG
AAATAGAGGGACCATTGTCTACAGAGACCAACTGGGATATTGCCACATGATCAGTGGCTTTGAATGAAATACAG
ATGCATTATCCAGAACTGAAGTTGCCCTACTTTTAACTTTGAACTTGGCTAGTTCAAAGATAGACTCTTCTTTTG
TAAAGTAAATAAATTCTTCAAAATG

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FIGURE 1792

MEAFSGSRGLWAGGPAPGQFYRIPSTPDSFMDPASALYRGPITRTQNPMVTGTSVLGVKFEGGVVIAADMLGSY
GSLARFRNISRIMRVNNSTMLGASGDYADFQYLKQVLGQMVIDEELLGDGHSYSPRAIHSWLTRAMYSRRSKMNP
LWNTMVIIGGYADGESFLGYVDMLGVAYEAPSLATGYGAYLAQPLLREVLEKQPVLSQTEARDLVERCMRVLYYRD
ARSYNRFQTATVTEKGVEIEGFLSTETNWDIAHMISGFE

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FIGURE 1793

CCCTACTGCGGGTCCCGCTGCTGGCAGCGCTGGAACTGGGTGGACGGCATGGGTTGGTCTCAGGATTTGTTCCG
CGCCTTGTGGAGATCGCTGTCAAGGGAAGTGAAAAGAGCACGTGGGCACGGACCAATTCGGGAACAAATACTACTA
CATCCCGCAGTACAAGAACTGGAGAGGACAACTATTTCGAGAGAAAAGAATTGTAGAAGCAGCAAATAAAAAAGA
AGTAGACTATGAAGCAGGGGATATTCCAACAGAATGGGAAGCTTGGATTAGAAGAACAAGAAAGACTCCACCTAC
TATGGAGGAAATACTAAAGAATGAAAAACACAGAGAAGAAATCAAAATAAAAAGCCAAGATTTTTATGAAAAAGA
AAACTCCTTAGTAAAGAGACCAGTGAGGAACTCCTGCCTCCACCAGTTCAAACCTCAAATTAAAGGCCATGCCTC
TGCTCCATACTTTGGAAAGGAAGAACCCTCAGTGGCTCCCAGCAGCACTGGTAAAACCTTTAGCCAGGATCCTG
GATGCCACGAGATGGCAAGAGCCACAATCAATGAATGCATTATGGTCAAATCTTTTCATGTATATGGATGTGACT
ATTTTAACAAATAAAAGAAGTGAAAAGTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1794

GCATGAACTTGGGGGTGAGCATGCTGAGGATCCTCTTCCTCCTGGATGTAGGAGGAGCTCAAGTGCTGGCAACAG
GCAAGACCCCTGGGGCTGAAATTGATTTCAAGTACGCCCTCATCGGGACTGCTGTGGGTGTCGCCATATCTGCTG
GCTTCCTGGCCCTGAAGATCTGCATGATCAGGAGGCCTTATTTGACGACGACTCTTCCGACCTGAAAAGCACGC
CTGGGGGCTCAGTGACACCATCCCGCTAAAGAAGAGAGCCCCAAGGCGAAACCACAATTTCTCCAAAAGAGATG
CACAGGTGATTGAGCTGTAGGTGAGCAGTGACGTGAAGAGGGGTTCTAGCCCCGTGGAAAACAGCCCATGGTTAA
CATCTCAGGATGTTCTGCATTCAAACACCCAAGGCTGGTAATGAACTTTCACATGGACTGAATATTGGAGGCAAA
TAATAGAAGGAATAGAATATACAGTGCCTCTGTCCTGAAGGAAAATATCATGCCTCTTCTGGAAGAAACGGACTG
CACAGAGGAAGGATTGAGCAATTTAGCCTGCAGTGGAAGAAGGTGGACACCAAAAGCTTCACCCTGTGTTGGAGC
TGTTTCATGCTTCCATGAGGCCATGGTGTCCATGTCCGTGGAACCTACCACAGAAAATGGCTCATGAAAAGGGGAA
TCCGACCCAACACACAGCTTCCTACACACTGCCATCTTATCAACAGTTAGGCACTACTTTGTAGAACGATTAGCT
TCACCCTCTTAGCTGCCAGGAGATCCCTTCTTAAAGATGGACTATGTGAAGATTCGGGAGTCTGAAACATGGGG
ACTCCGGGATGGTCTCTAGCCCTATCGATGATGAACACTGGCCTTCTGGAGGGGAAATGGCAGTCTGGGCTGGCG
TGGTAGGAAGGGCTTTGGTGTTCATGGAATGGGCCTGCTGCTCTCAGACCTTCAAAGGATGGAACCAACGAAGGA
CCAAATGAGAAAGCAGATGCTGTGCCTTGCAGAGGGCCATGAATGTCAGTTATTATTTTTCTCCTTATACAATTA
TTTTGTGGTTATTATTACAATGTACATGGCTGTTGCATAGAAGACATGACTGGTGGAGGCTGAGGAAAGCCATGA
CATCTACAATTGCCATCAGGCTAAGGCCCCGTGAGCATTCTCTCCCTTGTAATATTAACCCTGTATTTCTGGG
ATCACATCACGGAATATTCTTTGCCTTTCCACTTTCCAGGAAATCTCTCGGACTGGGCTACCCTCCTTGTGTGTG
ATGAAAGATGAGCTATATTTCAGAACAAAGTGCTGTGTTGTCATAATTTGCCTGGACTCCCAGGGCGTCTCTTAC
CCAACCTTGATAACGATGCTGTTTATTAGCAGCCTTTGTAACTGATAACCAAGAGCGGTAATGTGATACTCATAA
GCAATTTTCTGTGTGTAGGATAAAATAAACCATCTTGTATGGGAAAA

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FIGURE 1795

MNLGVSMRLRILFLLDVGGAQVLATGKTPGAEIDFKYALIGTAVGVAISAGFLALKICMIRRHLEFDDSSDLKSTP
GGLSDTIPLKKRAPRRNHNFSKRDAQVIEL

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FIGURE 1796

GTCAGTCTTAGACGACTGCGTCGTGCTATGACCGGACTTTTTCTTGAAAGGGGATGACAGCATGGGAGGCAATGG
CTCCACATGTAAACCCGACACTGAAAGACAAGGCACTCTCTCCACAGCAGCCCCAACAAGTACCCTGCACCCCTG
TCTCTCTAACCACCACAACAAAAACATTTAATCCTTGCCTTTTGTGCTGGGGTTCTACTGACACTGCTGCTGAT
AGCCTTTATCTTCCTCATCATAAAGAGCTACAGAAAATATCGAAGGGAGAGGCTTCCCATTTCCCCAGGCCCCATT
AGAGATGGGTCCCTCTTCTTTCTGGCACCATGGCAGATCACTCCAAGCCCCAGGCCCCAGATCCTCACTCAGA
GCCAGCCAAGCTTTTCATCCATCCCAGGGGAATCACTTACCTATGCCAGCACAACTTTCAAACCTCTCAGAAGA
AAGAGCAATCACTTGGCTGAGAACCATTCTGCAGACTTTGACCCCAATTGTCTATGCTCAAATTAAAGTAACAAA
CTAACTCAGCTTTTCCAATGAGGCTTGAATCCATTTCTCTCATCTCAGCCCTATCTTCACACATCACTTTCACT
TTTACAAATTTTGGACCACCACCTGTGTGAAACTGCAGTCGGAGTTGTTTAGATGTGATCTGGCAATGCTATC
AGCATCTTTGGAGACCAATGGTCAGTCTTTTCTGGCCAGAGGAAAGATTGATGGCCCTCCCACTTGAACCTGAC
TGTGTGAGCCCCCTTGGGGGCATAGACTGCCTTCTTGGACCCTTCCAAAGTGTGTGGTACGGAGCTCAGTGCA
AGTATTACCCAGCATCATGAATCAACTTGGGAGGAGTCAACCAATGAACAATCTACCAAAAAATTTCAAAT
AAGTCAAACCCCCAC

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FIGURE 1797

MGGNGSTCKPDTERQGTLSTAAPTTSPAPCLSNHHNKKHLILAF CAGVLLTLLLI AFIFLI IKS YRKYRRERLPI
SPGPLL RWVPLL SGT MADH SKFQAPDPHSDPPAKLSSIPGESLT YASTTFKLSEEKSNHLAENHSADFDPIVYAO
IKVTN

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FIGURE 1798

GGAGGGTTTTGCTCTTTGTGTGGGTGTGTGAGTGGCTATGATCCTAGTTGTCCAGCTGCTGCGTGGAGAATAAGT
AAAGCAGGTCTGAATGACACCAGGTGCTGCTGTCTTGCGGCTGACATTCAGGTAGAGACGTTTCATCTTCACTGA
CGGGGAAGATGAGGCCCTGGCCAGGCACACGGGCAACGTGGTCATCACAACTGCTCGGCCGCCCACAGCCGCCA
GGCGCTGTCTGTCAAGATGGCCGTGGAGTATGACCGCTTCATCGAGTCCGGCAGGAAGTGGTTCTGCCACGTGGA
CGATGACAACCTACGTCAACCTGCGGGCCCTGCTGCGGCTGCTGGCCAGCTACCCGCACACGCGGGACGTCTACGT
CGGCAAGCCCAGCCTGGACAGGCCCATCCAGGCCATGGAGCGGGTCAGCGAGAACAAGGTGCGTCCTGTCCACTT
CTGGTTTGCCACGGGCGGCGCTGGCTTCTGCATCAGCCGTGGGCTGGCTCTGAAGATGAGCCCGTGGGCCAGCGG
GGGTCACTTCATGAATACGGCTGAGCGGATCCGGCTGCCTGATGACTGCACCATCGGCTACATCGTGGAGGCCCT
GCTGGGTGTGCCCCATCCGCAGCGGCCTCTTCCACTCCCACCTGGAGAACCTGCAGCAGGTGCCCCACCTCGGA
GCTCCACGAGCAGGTGACGCTGAGCTACGGTATGTTTGAAAACAAGCGGAACGCCGTCCACGTGAAGGGGCCCTT
CTCGGTGGAGGCCGACCCATCCAGGTTCCGCTCCATCCACTGCCACCTGTACCCGGACACACCCTGGTGTCCCGG
CACTGCCATCTTCTAGTGGCCATGGCTGAGACCCAATCCCTGGGCGCCCCCTGGTATCCAAAGGGCCCAGGGACCC
TGTTGCGCTGCCCTGGCCTCGGCATTTCGAGGCTCCCCTAGGGCCGTGCTGTGCGTGTGCGTGTGCATGTGCGTG
TGTGTGTGTGTACTGCATGCCCCACCGGGTAGCAGGCTGCTGGGCAGTTCTGCTCTGTGGAGGGCGGGCACC
AGCGCCACTTATGTGCCTCTGCTCCGAGGGCCAGTGGGCTGCAGGGCCTGCTTGGAGGAAGGATTTGTGTGTGCGG
AGGCCACTCCGAGGGCAATTCTGTTAGGATTTTTGGATCTTTCTACAGCTACGGGGCTCCGGGCTACTTTGCAGG
GATGCGATGCGTAGGTGCCTTTCTCTTCTGCTGACCACAAGCTCTGTGCTGGGGGTACCTGTGCCCTGAAGTCC
TGGCCCCCTGTGTATAGCCCCAAGTACGACTCACTGAGCCATGCTCATTCAGGGGAGGCTGGGTCTGGGGGTGC
GTGACCCAATCCCCCTTCTCTGCTGGCCTGGACGCTGTGGCTTAAGAGTAACAGCAGCCACCGCCCAGTTCAGTGG
CCCCACGAAGCCCCCAGTGGCTGGCTGTCCAGCTGGGCAACAGTGGCACCCCTCCCAGCTCTTCTGAGTGGGGA
GTCTTCCAGGCCTCCTCAGAGGTCTTCCCTTTGCTCCCCAGGACAGGGTGAGTCAGAGCTCAGCATTTAATCTC
CTCTCCAAAGTAGAGAGCAAGTCGCCACAGTGGGCGTGTCTGTAAATATTGTGACAGTATTTTTTTACTGTGCT
GTTTTTTTTTGAAAGGGGATGGGTAAAAAGTAGGGTGTCTTGTTTTTTGCTTGGGAGGGTGGGGGTGGGGGAGGG
TCTTATTTTATCTTATCTTTTCTGTGGATCAGAAAAAACAGAAGCCAACTCGGGGTATCTTTGTTTTTAAAGC
TGAAGTGGGACTGTCTGGCACTCTGTGTATTTATGCGTTCCAGCATCTGGAACCTCCCATCCCTGCCCTCCTCCT
GTGTAGCTGCCACCTCCCCGCTGGGCCCAGCATGGCTCACCTGTCCCGTGGGCTGTGTTTTCTTGTGTTTTTCTC
TTTGCAAAGACATAGCTAGGAAAGCGAATGATAAGGGAAAAGTTCTCAGGGAATTGAAGTGTGTTGCTATGGTG
ACGTCCTTTTGCTGTGAATAAAGGTGCTCTTTGCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 1799

MTPGRCCLAADIQVETFIPTDGEDEALARHTGNVVITNCSAAHSRQALSCKMAVEYDRFIESGRKWFC HVDDNY
VNLRALRLLLASYPHTRDVYVGKPSLDRPIQAMERVSENKVRPVHFWFATGGAGFCISRGLALKMSPWASGGHFM
NTAERIRLPDDCTIGYIVEALLGVPLIRSGLFHSHLENLQQVPTSELHEQVTLSYGMFENKRNAVHVKGPF SVEA
DPSRFRSIHCHLYPDTPWCPRTAIF

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FIGURE 1800

CTTCTCATTAGCATTAACTAGTTATGCCAGCTTGGGAGAGCCTTCTTTGGGCTTATCATTATTATAAGCCCAG
AAATAGGTGACTAATCAGAGATAAATGTATGGGTTGTCTGTATCTAGTTTTATGCCTTTTTTTTTGCCTAAGACG
TAGTCAAATTAATATTTTAACTAATACATCTTAGCAGAGTTTAGTTAAGCACAAAGTTAACAGTGGGTAGGATTG
AATCTTGAAAGTAATCATGTCTGTAATGTTTTTCATGCATGCAAAAAGCACAGACAAAACCACTCATGCCCTATT
AATAAACAAAATACAGATCAAAGTTTTCAAAAGTAATCACTCTATTTATTCTAAATGTCTGTGGCTTTAGGAAAA
TACCACCAGCTAGTACTTACCTATTTAAAGATGTAGAATTTATTATCCTCTAATATTCTTATCAGTTGTTTCCAC
AACTTTAGTTTACTATTGGACTTTCAAAAATTTAAAGAATTACAAGTAAAATTCATTAAACACTTGTGTGTGAAT
AGTAATACACAGTAATTAGTACAGCATGTTGCTTCTTCAACAAATTGAGTTTTTCAGGGAAATCAGCAAGTAAATG
AAATATAAATTTTTGGTAAAAGTATCAAACATTCATCTTGCCCATTTTTCTCTTAAACTTTATTATCTAATCAA
ACATAGTTTTCCATAAGATGTAATAAAATATAGATAAGGTTGGAATATTTGAGGATCCATTTGTGGAACTGAATT
TAATGAGACTTCATTGGTGATACACTCAATTTTTACTGGGTAATTAGCTAATAATGTTGGTCACTGTCTCACAGT
TCAAGTAGCTTTAAGATGATGTGGCAAGGAAAACACAAAGCTTTTGGGTAACCAGCGTTCTTAAATGTATGGTTT
TTGACCAGGTGAACCCTTTAGAAGTGATTTCTGTTTTTAAAGTATGTACTTAAATACCTTTGGCTGTGATGAAT
GTAGATCCCAGCAGAATACCAAAATCCTATTTTTTTTGACTGAGTATTTGTAGATGCTTAATGACTGAAATGAAT
TTGGAGGCACTGATGAAAGTGATTTTTTTTAAAGTTCTCAGGTACTGTTCAATTATTTAATGTTAAGTTTAGTATC
AAGATACAGTTGTTTTTTAAATGCCAAAATGCTGTTTATTATACAGAATATTTTATTACATTTGCAATATCTTTG
TATATAGTGATTTTTTTCTTGATAATAAATGGAAAAATTCTAAAACAAA

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FIGURE 1801A

GTGCTGCCGTGACACTCGGCCCTCCAGTGTTGCGGAGAGGCAAGAGCAGCGACCGCGGCACCTGTCCGCCCCGAG
CTGGGACGCGGGCGCCCGGGCGGCCGGACGAAGCGAGGAGGGACCGCCGAGGTGCGCGTCTGTGCGGCTCAGCCT
GGCGGGGGACGCGGGGAGAATGTGGACTGGGTAGAGATGAACGAGACTTTTCTCAGATGTTGGATATTTGCTTGG
AAAAACGTGTGGGTACGACCTTGCTGCCCCAAGTGTAACTCCAGCACTGTGAGGTTTCAGGGATTGGCAGAGG
GGACCAAGGGGACCATGAAAATGGACATGGAGGATGCGGATATGACTCTGTGGACAGAGGCTGAGTTTGAAGAGA
AGTGTACATACATTGTGAACGACCACCCCTGGGATTCTGGTGCTGATGGCGGTACTTCGGTTTCAGGCGGAGGCAT
CCTTACCAAGGAATCTGCTTTTCAAGTATGCCACCAACAGTGAAGAGGTTATTGGAGTGATGAGTAAAGAATACA
TACCAAAGGGCACACGTTTGGACCCCTAATAGGTGAAATCTACACCAATGACACAGTTCCTAAGAACGCCAACA
GGAAATATTTTTGGAGGATCTATTCCAGAGGGGAGCTTCACCACTTCATTGACGGCTTTAATGAAGAGAAAAGCA
ACTGGATGCGCTATGTGAATCCAGCACACTCTCCCCGGGAGCAAAACCTGGCTGCGTGTCAGAACGGGATGAACA
TCTACTTCTACACCATTAAGCCCATCCCTGCCAACCAGGAACCTTCTGTGTGGTATTGTTCGGGACTTTGCAGAAA
GGCTTCACTACCCCTTATCCCGGAGAGCTGACAATGATGAATCTCACACAAACACAGAGCAGTCTAAAGCAACCGA
GCACTGAGAAAAATGAACTCTGCCCAAAGAATGTCCCAAAGAGAGAGTACAGCGTGAAAGAAATCCTAAAATTGG
ACTCCACCCCTCCAAGGAAAGGACCTCTACCGTTCTAACATTTACCCCTCACATCAGAAAAGGACCTCGATGAC
TTTGAAGACGTGGGAGCCCCGAAATGCCCTTCTACCCCTCGGGTTCGTTTACCCCATCCGGGCCCCCTCTGCCAGAA
GACTTTTTTGAAGCTTCCCTGGCCTACGGGATCGAGAGACCCACGTACATCACTCGCTCCCCATTCCATCCTCC
ACCACTCCAAGCCCCCTCTGCAAGAAGCAGCCCCGACCAAAAGCCTCAAGAGCTCCAGCCCTCACAGCAGCCCTGGG
AATACGGTGTCCCCTGTGGGCCCCGGCTCTCAAGAGCACCAGGACTCCTACGCTTACTTGAACGCGTCTACGGC
ACGGAAGGTTTGGGCTCCTACCCCTGGCTACGCACCCCTGCCCCACCTCCCGCCAGCTTTCATCCCTCGTACAAC
GCTCACTACCCCAAGTTCTCTTGGCCCCCTACGGCATGAATTGTAATGGCCTGAGCGCTGTGAGCAGCATGAAT
GGCATCAACAACTTTGGCCTCTTCCCGAGGCTGTGCCCTGTCTACAGCAATCTCCTCGGTGGGGGCAGCCTGCCC
CACCCCATGCTCAACCCCACTTCTCTCCCGAGCTCGCTGCCCTCAGATGGAGCCCGGAGGTTGCTCCAGCCGGAG
CATCCAGGGAGGTGCTTGTCCCGGCGCCCCACAGTGCCCTTCTCCTTTACCGGGGCGCCGCCAGCATGAAGGAC
AAGGCCTGTAGCCCCACAAGCGGGTCTCCACGGCGGGAACAGCCGCCACGGCAGAACATGTGGTGCAGCCCCAA
GCTACCTCAGCAGCGATGGCAGCCCCCAGCAGCGACGAAGCCATGAATCTCATTAAAAACAAAAGAAACATGACC
GGCTACAAGACCCCTTCCCTACCCGCTGAAGAAGCAGAACGGCAAGATCAAGTACGAATGCAACGTTTGCGCCAAG
ACTTTTCGGCCAGCTCTCCAATCTGAAGGTCCACCTGAGAGTGCACAGTGGAGAACGGCCTTTCAAATGTCAGACT
TGCAACAAGGGCTTTACTCAGCTCGCCACCTGCAGAAACACTACCTGGTACACACGGGAGAAAAAGCCACATGAA
TGCCAGGTCTGCCACAAGAGATTTAGCAGCACCAGCAATCTCAAGACCCACCTGCGACTCCATTCTGGAGAGAAA
CCATACCAATGCAAGGTGTGCCCTGCCAAGTTCACCCAGTTTGTGCACCTGAAACTGCACAAGCGTCTGCACACC
CGGGAGCGGCCCCACAAGTGCTCCCAGTGCCACAAGAACTACATCCATCTCTGTAGCCTCAAGGTTACCTGAAA
GGGAACTGCGCTGCGGCCCCGGCGCCTGGGCTGCCCTTGGAAAGATCTGACCCGAATCAATGAAGAAATCGAGAAG
TTTGACATCAGTGACAATGCTGACCGGCTCGAGGACGTGGAGGATGACATCAGTGTGATCTCTGTAGTGGAGAAG
GAAATTCTGGCCGTGGTCAGAAAAGAGAAAGAAGAACTGGCCTGAAAGTGTCTTTGCAAAGAAACATGGGGAAT
GGACTCCTCTCCTCAGGGTGCAGCCTTTATGAGTCATCAGATCTACCCCTCATGAAGTTGCCTCCAGCAACCCA
CTACCTCTGGTACCTGTAAAGGTCAAACAAGAAACAGTTGAACCAATGGATCCTTAAGATTTTCAGAAAACACTT
ATTTTGTCTTCTAAGTTATGACTTGGTGAGTCAGGGTGCCTGTAGGAAGTGGCTTGTACATAATCCAGCTCTGC
AAAGCTCTCTCGACAGCAAATGGTTTCCCTCACCTCTGGAATTAAAGAAGGAACCTCCAAAGTTACTGAAATCTC
AGGGCATGAACAAGGCAAAGGCCATATATATATATATATATATATATATATATATCTGTATACATATTATATATACT
TATTTACACCTGTGTCTATATATTTGCCCTGTGTATTTTGAATATTTGTGTGGACATGTTTGCATAGCCTTCCC
ATTACTAAGACTATTACCTAGTCATAATTATTTTTTCAATGATAATCCTTCATAATTTATTATACAATTTATCAT
TCAGAAAGCAATAATTAAGAAAGTTTACAATGACTGAAAGATTCTTGTAAATTTGAGTATAAATGTATTTTTGT
CTGTGGCCATTCTTTGTAGATAATTTCTGCACATCTGTATAAGTACCTAAGATTTAGTTAAACAAATATATGAC
TTCAGTCAACCTCTCTCTCTAATAATGGTTTGAAGATGAGGTTTGGGTAATTGCCAATGTTGGACAGTTGATGTG
TTCATTCTGGGATCCTATCATTGTAACAGCATTGTACATAACTTGGGGGTATGTGTGCAGGATTACCCAAGAAT
AACTTAAGTAGAAGAAACAAGAAAGGAATCTTGTATATTTTGTGTGATAGTTTCATGTTTTTCCCCAGCCACAA
TTTTACCGGAAGGGTGACAGGAAGGCTTTACCAACCTGTCTCTCCCTCCAAAAGAGCAGAATCCTCCACCGCCC
TGCCCTCCCCACCGAGTCTGTGGCCATTACAGAGCGCCACATGACTTTTGCATCCATTGTATTATCAGAAAATG

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FIGURE 1801B

TGAAGAAGAAAAAATGCCATGTTTTAAAACCACTGCGAAAATTTCCCAAAGCATAGGTGGCTTTGTGTGTGTG
CGATTTGGGGGCTTGAGTCTGGGTGGTGTGTTTGTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAT
GTCAAAATTGCACAAACATGGTGCTCTACCAGGAAGGATTGAGGTAGATAGGCTCAGGCCACACTTTAAAAACA
AACACACAAACAACAAAAACGGGTATTCTAGTCATCTTGGGGTAAAAGCGGGTAATGAACATTCCCTATCCCCAA
AATCAATTGTATTTTTCTGTAAACTCAGATTTTCCTCAGTATTTGTGTTTTTACATTTTATGGTTAATTTA
GAAGATGAAAGGGCATTGCAAAGTTGTTCAACAACAGTTACCTCATTGAGTGTGTCCAGTAGTGCAGGAAAT
GTCTTATCTAATGATTTGCTTCTCTAGAGGAGAAACCGAGTAAATGTGCTCCAGCAAGATAGACTTTGTGTT
ATTCTATCTTTTATTCTGCTAAGCCCAAAGATTACATGTTGGTGTTCAAAGTGTAGCAAAAAATGATGTATATTT
AATCTATTTTATACCACTATATCATATGTATATATATTTATAACCACTTAAATTGTGAGCCAAGCCATGTAAA
ATCTACTTTTTCTAAGGGCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTCCTTTCTGAGACTTTGCTTAAT
GGTGACCTCACAAATCACGTCGGTATGATTGGGCACCTTGCCTACTGTAAGAGACCCTAAAACCTTGGTGC
GGTGGGGACCACAAAACAACCAGGGAGGAAGAGATACATCATTTTTTAGTATTAAGGACCATCTAAGACAGC
IATTTTTTTTTTGCCACTTTATGATTATGTGGTCACACCCAAGTCACAGAAATAAAAAACTGACTTTACCGCT
CAATTTTTCTGTTTTCTCCTTACTAAATACTGATACATTACTCCAATCTATTTTATAATTATATTTGACATTT
GTTCACATCAACTAATGTTACCTGTAGAAGAGAACAAATTCGAATAATCCAGGGAAACCCAAGAGCCTTACT
GGTCTTCTGTAACCTCCAAGACTGACAGCTTTTTATGTATCAGTGTTGATAAACACAGTCCTTAAGTGAAGGTA
AACCAGCATCACGTTGACATTAGACCAAATACTTTGATTCCCAACTACTCGTTTGTTCCTTTTCTCCTTTTG
TGCTTTCCCATAGTGAGAATTTTTATAAAGACTTCTTGCTTCTCTCACCATCCATCCTTCTCTTTTCTGCCTCTT
ACATGTGAATGTTGAGCCCAACATCAACAGTGGTTTTATTTTTCTCTACTCAAAGTTAAAAGTGAACAAAGTT
ACTGGCTTTTTACTTTGCTAGAACAACTATCTTATGTTTACATACTGGTTTACAATGTTATTTATGTGCAA
ATTGTCAAATGTAAATTAAATATAAATGTTTCATGCTTTACC

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FIGURE 1802

AAVTLGPPVLRRGKSSDRGTCPPGAGTRAPGRPDEARRDRRGARLCGSAWRGTRGECGLGRDERDFSQMLDICLE
KRVGTTLAAPKCNSSTVRFQGLAEGTKGTMKMDMEDADMTLWTEAEFEKCTYIVNDHPWDSGADGGTSVQAEAS
LPRNLLFKYATNSEEVIGVMSKEYIPKGTRFGPLIGEIIYTN DTVPKNANRKYFWRIYSRGELHHFIDGFNEEKS
WMRYVNP AHS PREQNLAACQNGMNIYFYTIKPIPANQELLVWYCRDFAERLHYPYPGELTMMNL TQTQSS LKQPS
TEKNELCPKNVPKREYSVKEILKNWTPPLQGKDLYRSNISPLTSEKDLDDFRRRGSPEMPFFYPRVVYP IRAPLPE
DFLKASLAYGIERPTYITRSP IPSSTTPSP SARSSPDQSLKSSSPHSSPGNTVSPVGP GSQEHRDSYAYLNASYG
TEGLGSYPGYAPLP HLPFAFIPSYNAHYPKFLLPPYGMNCNGLSAVSSMNGINNFGLEFRLCPVYSNLLGGGSLP
HPMLNPTSLPSSLPSDGARRLQPEHPREVLVPAPHSASFSTGAAASMKDKAC SPTSGSPTAGTAATAEHVVQPK
ATSAAMAAPSSDEAMNLIK NKRNM TGYKTLPYPLKKQNGKIKYECNVCAKTFGQLSNLKVHLRVHSGERP FKCQT
CNKGFTQLAHLQKH YLVHTG EKPHECQVCHKRFSSTSNL KTHLR LHSGEKPYQCKVCPAKFTQFVHLKLHKRLHT
RERPHKCSQCHKNYIHLCSLKVHLKGNC AAAPAGLPLEDLTRINEEIEKFDISDNADRLEDVEDDISVISVVEK
EILAVVRKEKEETGLKVSLQRNMGNLLSSGCSLYESSDLPLMKLP P SNPLPLVPVKVKQETVEPMDP

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FIGURE 1803

GCCTAGGAACATTTTTTAAGGACTCAGCTGTGGCTTTTAGGGCTTGGTTCATACCATGGGGGAAAAAAAAGTCCT
AGGAGAAAGCGACGTGGCTCATTAGTGTTCCTCTTCAGTGCTCAAGCCGCCTGGTGGATTCCCTATGACACAGGG
GGCCTGGAAAGAAAGGGAAAAGTGGATTTAAAATATATATATACGTAACCCAAGCCCCATAACCCCTAACTGGACA
AATGAGGTCTGTTTTCTTTGGGCCTGAGGCTGTGCATATAAAGTCTTATTTTGGGACTTTACAAACTTGTCTTAAC
TATCTTGTGGATAGTGGGCTGTGACAATCTGGAATAGAGAACGTTACACTTCGCTCCTTTAAAGAAGCGACCCC
AGATCTGCAAGGGAGTAGATTCTGCTATCTTGGCCTCACAGCCCTTCCTGTTGATTACAAAGCCCGTGAAGAAA
ACAGAACACACCCCTCCTCAGTTCGGTCTAAATGTGTTTTCTTCTGCTTCAATTACACCAGTTCTGGGGCAAAGACA
CTGATGAAACAACACCCCATACCTGAAAAGAATAAATGTGTGACTTTCAAATCCCCCTTTCGCAGTGAAAGAAACAG
CAAACACTTAAGATTGAGCATCTGTTCTCCAGTTGCACTGAGGAATGCACTGTCTCGCAGCACCAGCTCTGCAGA
GCCCTTGCCCCAGACTCTTTGCGGTTTTATTTATATGTATTTCCATATTTTCATTCCCTGTGTGTCAGTGTGCATT
GGTGTGGCAGCAAGTGACCAAATGCTACAGGTCTTACTATGGACACCAGGTCAGGTGCAACCACACAAAACAAAG
CCAGTTCCATGAGCTGCCTATGATATGCATTGCGGAAGTAACATTTTACCCAGGGTGTGCCATTGCAGTGATATA
AATATATTTTTTCTTAGACTAAATATGAGCTGACTATCTCTTTTGATGTGTGTACATAGGTGTGAGTGTGTSTG
TATGCGTGCCCTGTCTGTGTGCGGGTGTGTGTATGTGCRTAGCCTCATGCTTAGGACTACCCATGAATGTTGTGGA
ATGCTACACCTGGAGAGTTCTGGTTTTCCACCAGTTTCAAGATGAAGAACTACATGATACAGTGGACCTGGAGAC
CATCCCCTTGGAAAGACAACCCAGAGATGTTTCAGCATCCTGTATCTACACGCATCCTGTATCTACACGTGTATTT
TGTAAGCTGTACACTAACCTTAATAAGAATTCTACAGCTTTGGACAGAGGCATTTTCACCTTAATGGYGAAGTAA
TTTAAATATAAATCCATTGAGGTGACAACCCATCATCAAATTAACAATTTTCTGATTGAACCTCATCTGAATCA
TCAGTTCCCTTGATGGAGAGAGAGAAGGAGATGGAATGTGTCTGGTAACCCCAAATGGAGTACAAGTAGCCTTTGT
TTTCTGCATAAATGGACTTGTGTAATGCGAACGAATATATGCAATTCATATACTTTTGGAGATGAACGTAGATA
TGTGTGTGCTAGCTTTGAGATGGTGTGYCCYGGATTAATACTTTGTCTCCCAATATCACAGAAAAATACATGCCCA
GTGACTCTTGAGGTAAAGGTAGTTGGGATGAAATGGCCTCAGGCAATTTACATTCCCTAATTACCTGGAAAGTT
CTACAGTAATTAATATGCAGCTAACTCCTGTTGCCCTCACAAGAGCATCAGCCTTCTAGAATCGGAGCTCCGGAG
TGTGAAGATTGAGTATTGATATGATATGTATACCAAACCTCCAGCCAACTTACTGCCATTTTTCATAATCTGAGTG
GCTGCCTTGCTTATCCTAAGCTGTGGTTGCAGAAACCGTGGCCATTTATATAAGCTATAACATCAAATCAGGGAA
AAATGAGGAAAAAAAATAGATTCTGAACCATTTATTGTTGAATAAGTAGAGAAAATCATCAATAAATATTTATTA
CATTCTGACAGGGTGTGTGGCATTGTGTTCTATGCCAGAGTGACAAAGTTGATTACCCCTTTTTGGGGACCTTA
ATATATTTTTTTAAGGGATGTGCCTATGCATTGATGCCTGAAAAATATGTATAAAGAAATGAGGTTGACTCTTCTG
AGCAGTTTCATCTTTTCCAGAGGTAAGGGTAGGAGGCCAACTTCAGGATCTGGGTCTRAGCCCGTGGGSAAGCCCT
GGCCGAGTGAGCTCCAATGCTAACTCATGTGCCGATCTCTAGAGCAGTGGGAACTACCCCGCTGCACCAAATCA
AGTAGCTTCACCTTGTGTATGCAGGCCCAAGTTATTTTTTAGCAATCTTACGAGTGAAATGTTCTGGTGGGTTG
AAAAACGTTCTTATTTTAAAGAAAGGTTGTGCTCGCTACACTGCTGGTGTGTGCRTTCTGAGACCTCTTGATTTC
CAATCTGTGAAGGGATATGTGTATTAATCCGTACACCCGTATAGCCTCAATATTTGTCTGAAGACACTTAAATTC
TGACCCATAAGGAAAGTTCCTAGAXGCCAATATTTTCACTTATTTAACATTCTCCAAACAACATCAAGCATTGAT
ACACACTGAAGAGTGCCTTTATTTTTTGTATCACTCTAAGTATGTTGGAATATGCAAGGACTGTGGTTCAAATTA
GAATGTATAAGGCATATTATAATTTAGTTTCATACTGAAAAAGAAATTAACAGAACATTGTTTCGGTTCACACGTTT
CAAAATTTGAGTGATTTCTGGAGTTAGACATAGATTTTCTATTTTGTTTTAAATTTGTCAAGGTATTTTTCTTCCC
TTCATGAACCTTAGGTACACATAACTTATGTCATTTATTTATGGTCTTTTATACCTAGTTTGTAAAATTGTAAAA
TAGCAAACATAAATGCAAAGAGTTTGCAATTTGAAAATAATAAAGTAGTTACCGTATACAACCCCTGCAAAAAAAA
AAAAAAAACTCGAG

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FIGURE 1804

AAGCTTTCCTCTTTGCATTTTGGCATTTGAAAACCTCCGAAGAGCGGTTTTTGTTTTTTATTTAAAGAAGATGATA
CATATGTGTACCCGATTCAAAACTAGAGAATAGAATTTAAAACATAATTTTCAAAGTCTTCAAATATGCCTAAAG
GTAACAATGTCATCTTTTAATTGCCAATTTCTCTACCACTTTCAAAAAATTACTTCCAAGGATTTAATGAGCTCC
TTCCTTTCAACAGAAAATGGACTATTTTCCTTTTCAGATTTACTATATGCTGTCACTCCAGCTTTATAACCGCATG
TGCATACACAAACATTTCTTTCTCTCTTGCAGGIGGCACAAACCAGGAAGGGGAAATCTGTGGTTTAAATTCTTT
ATGCCTCATCCTCTGAGTGCTGAAGGCTTGCTGTAGGCTGTATGCTGTTAATGCTAATCGTGATAGGGGTTTTTG
CCTCCAACCTGACTCCTACATATTAGCATTAAACAGTGTATGATGCCTGTTACTAGCATTACATGGAACAAATTGC
TGCCGTGGGAGGATGACAAAGAAGCATGAGTCAACCTGCTGGATAAACTTAGACTTCAGGCTTTATCATTTTTCA
ATCTGTTAATCATAATCTGGTCACTGGGATGTTCAACCTTAAACTAAGTTTTGAAAGTAAGGTTATTTAAAGAT
TTATCAGTAGTATCCTAAATGCAAACATTTTCAATTTAAATGTCAAGCCCATGTTTGTTTTTATCATTAAACAGAAA
ATATATTCATGTCATTCTTAATTGCAGGTTTTGGCTTGTTTCATTATAATGTTTCATAAACACCTTTGATTCAACTG
TTAGAAATGTGGGCTAAACACAAATTTCTATAATATTTTTGTAGTTAAAAAATTAGAAGGACTACTAACCTCCAGT
TATATCATGGATTGTCTGGCAACGTTTTTTAAAAGATTTAGAACTGGTACTTTCCCCCAGGTAACGATTTTTCTG
TTCAGGCAACTTCAGTTTAAAATTAATACTTTTATTTGACTCTTAAAGGGAACTGAAAGGCTATGAAGCTGAAT
TTTTTTAATGAAATATTTTTAACAGTTAGCAGGGTAAATAACATCTGACAGCTAATGAGATATTTTTTCCATACA
AGATAAAAAGATTTAATCAAAAAATTTCATATTTGAAATGAAGTCCCAAATCTAGGTTCAAGTTCAATAGCTTAG
CCACATAATACGGTTGTGCGAGCAGAGAATCTACCTTCCACTTCTAAGCCTGTTTCTTCCCTCATATGGGGATA
ATACTTTACAAGGTTGTTGTGAGGCTTAGATGAGATAGAGAATTATTCCATAAGATAATCAAGTGCTACATTAAT
GTTATAGTTAGATTAATCCAAGAACTAGTCACCCTACTTTATTAGAGAAGAGAAAAGCTAATGATTTGATTTGCA
GAATATTTAAGGTTTGGATTTCTATGCAGTTTTTCTAAATAACCATCACTTACAAATATGTAACCAAACGTAATT
GTTAGTATATTTAATGTAACTTGTTTTAACAACCTCTCTCAACATTTTGTCCAGGTTATTTACTGTAAACCAAT
AAATCTCATGAGTCTTTAGTTGATTTAAAAAA

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FIGURE 1805

MSSFLSTENGLFSFQIYYMLSLQLYNRMCIHKHFFLSCRWHKPGRGNLWFKFFMPHPLSAEGLL

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FIGURE 1807

GEMGMEKGYIKTNNGNNNDEDWSTPSXXXXXXXXXXXXXXXXMFIIIVHYSYIVRRSYN

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FIGURE 1808

CTATTTTTTAAAACGGAGGTACTGAAAAAGATCGGGAGATTTTCTATTCTCTATCAATGGGGATTTCAGGCAC
GTGCCCCACCCAAGGCCCACGCCCAGAGCGCCCGAGTGGCAGGACAACGCCCCTGACATCTTCCCGTCCCGACG
GCACAGGCTACTCCGAGCTCCGCCTTTTAGATTGCACCGAGAGAAGCCAGCTACAGCTTGGAGTCCAGGCCGGGT
TTTCAAGCATCAAGACGGAAGTAACAGCGGAAAGGAAGTTCCAAGGCCCGCGCTGGGAAAAAGGTGGGGGGACCA
GGGGAAGACTCGGAGTGCGATGGCGGCGCAAATTCCAATTGTGGCCACCACTTCCACTCCCGGAATAGTCCGGAA
CAGCAAGAAGAGGCCCGGCCAGCCCTTCCCACAATGGCAGCAGCGGGGGGCTATGGCGCCAGTAAGAAGAAAAA
AGCGTCCGCTTCCAGCTTTGCGCAGGGTATCAGCATGGAAGCCATGAGTGAGAATAAAATGGTGGCCCTCTGAGTT
TAGCACAGGACCTGTGGAAAAAGCTGCCAAACCTTTGCCATTTAAGGATCCCAACTTTGTGCACTCTGGCCACGG
TGGCGCAGTAGCTGGCAAGAAGAACAGAACCTGGAAGAACCTGAAACAAATCCTCGCTTCTGAAAGGGCATTGCC
GTGGCAACTGAACGATCCTAACTACTTTCAGTATTGATGCTCCTCCATCCTTTAAGCCAGCTAAGAAGTATTCTGA
TGTTTCAGGTCTGCTTGCCAACTACACAGACCCCCAGAGCAAACCTGCGGTTTACAGACCATTGAAGAGTTTTCTTA
CATTCGGAGGCTGCCCTCTGACGTCGTCACCGGCTACCTGGCCCTGAGGAAGGCCACGAGCATCGTTCCCTTGAGC
CCCAGAAAGGGAGATGAAATGGAAAGCTGTTTCAAAAACAGACTCTGGACTCATGATTTTGTTTTACGGAAACAA
ACTCGTTCTGCTGTCAATCTGAAAATGCCAGTGTGCTGTGCCTTGGAAGAATGTTTGGCTTTAATTTAAGGGTTTT
TTTTTTTTTTTAGTGTGTGTTTTCCCTCCAAGTGTGATATTCCTGCTGAATTAAATTATACTTCAGTTGTTGCC
TCAAGTAAAGGTGTTTGACAAGAAGATACAATAAAACCATACTTTTCATTTAAAAAA

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FIGURE 1809

MAAQIPIVATTSTPGIVRNSKKRPASPSHNGSSGGGYGASKKKKASASSFAQGISMEAMSENKMVPSEFSTGPVE
KAAKPLPFKDPNFVHSGHGGAVAGKKNRTWKNLQILASERALPWQLNDPNYFSIDAPPSFKPAKKYSDVSGLLA
NYTDPQSKLRFSTIEEFSYIRRLPSDVVTGYLALRKATSIVP

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FIGURE 1810

ATGGCTTTAGAGATCCACATGTCAGACCCCATGTGCCTCATCGAGAACTTTAATGAGCAGCTGAAGGTTAATCAG
GAAGCTTTGGAGATCCTGTCTGCCATTACGCAACCTGTAGTTGTGGTAGCGATTGTGGGCCTCTATCGCACTGGC
AAATCCTACCTGATGAACAAGCTGGCTGGGAAGAACAAGGGCTTCTCTGTTGCATCTACGGTGCAGTCTCACACC
AAGGGAATTTGGATATGGTGTGTGCCTCATCCCACTGGCCAAATCACACATTAGTTCTGCTTGACACCGAGGGC
CTGGGAGATGTAGAGAAGGCTGACAACAAGAATGATATCCAGATCTTTGCACTGGCACTCTTACTGAGCAGCACC
TTTGTGTACAATACTGTGAACAAAATTGATCAGGGTGCTATCGACCTACTGCACAATGTGACAGAACTGACAGAT
CTGCTCAAGGCAAGAACTCACCCGACCTTGACAGGGTTGAAGATCCTGCTGACTCTGCGAGCTTCTTCCCAGAC
TTAGTGTGGACTCTGAGAGATTTCTGCTTAGGCCCTGGAAATAGATGGGCAACTTGTACACCAGATGAATACCTG
GAGAATTCCTAAGGCCAAAGCAAGGTAGTGATCAAAGAGTTCAAATTTCAATTTGCCTCGTCTGTGTATACAG
AAGTTCTTTCCAAAAAAGAAATGCTTTATCTTTGACTTACCTGCTCACCAAAAAAAGCTTGCCCAACTTGAAACA
CTGCCTGATGATGAGCTAGAGCCTGAATTTGTGCAACAAGTGACAGAATTCTGTTTCTACATCTTTAGCCATTCT
ATGACCAAGACTCTTCCAGGTGGCATCATGGTCAATGGATCTCGTCTAAAGAACCTGGTGCTGACCTATGTCAAT
GCCATCAGCAGTGGGGATCTGCCTTGCTAGAGAATGCAGTCTCGCCTTGGCTCAGAGAGAGAACTCAGCTGCA
GTGCAAAAGGCCATTGCCCCTATGACCAGCAAATGGGCCAGAAAGTGACGCTGCCCATGGAAACCTCCAGGAG
CTGCTGGACCTGCACAGGACCAGTGAGAGGGAGGCCATTGAAGTCTTCATGAAAACTCTTTCAAGGATGTAGAC
CAAAGTTTCCAGAAAGAATTGGAGACTCTACTAGATGCAAAACAGAATGACATTTGTAAACGGAACCTGGAAGCA
TCCTCGGATTATTGCTCGGCTTTACTTAAGGATATTTTTGGTCCTCTAGAAGAAGCAGTGAAGCAGGGAATTTAT
TCTAAGCCAGGAGGCCATAATCTCTTCATTGAGAAAACAGAAGAAGTGAAGGCAAAGTACTATCGGGAGCCTCGG
AAAGGAATACAGGCTGAAGAAGTTCTGCAGAAATATTTAAAGTCCAAGGAGTCTGTGAGTCATGCAATATTACAG
ACTGACCAGGCTCTCACAGAGACGGAAAAAAGAAGAAAGAGGCACAAGTGAAAGCAGAAGCTGAAAAGGCTGAA
GCGCAAAGGTTGGCGGCGATTCAAAGGCAGAACGAGCAAATGATGCAGGAGAGGGAGAGACTCCATCAGGAACAA
GTGAGACAAATGGAGATAGCCAAACAAAATTGGCTGGCAGAGCAACAGAAAAATGCAGGAACAACAGATGCAGGAA
CAGGCTGCACAGCTCAGCACAAACATTCCAAGCTCAAAATAGAAGCCTTCTCAGTGAGCTCCAGCACGCCCAGAGG
ACTGTTAATAACGATGATCCATGTGTTTTACTCTAA

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FIGURE 1811

MALEIHMSDPMCLIENFNEQLKVNQEALEILSAITQPVVVVAIVGLYRTGKSYLMNKLAKGNKGFSVASTVQSHT
KGIWIWCVPHPNWPNHTLVLLDTEGLGDVEKADNKNDIQIFALALLSSTFVYNTVKNIDQGAIDLLHNVTETD
LLKARNSPDLDRVEDPADSASFFPDLVWTLRDFCLGLEIDGQLVTPDEYLENSLRPKQGSQQRVQNFNLPRLCIQ
KFFPKKKCFIFDLPAHQKKLAQLETLPDDELEPEFVQQVTEFCSYIFSHSMTKTLPGGIMVNGSRLKNLVLTYN
AISSGDLPCIENAVLALAQRENSAAVQKAIHAYDQQMGQKVQLPMETLQELLDLHRTSERAIEVFMKNSFKDVD
QSFQKELETLLDAKQNDICKRNLEASSDYCSALLKDIFGPLEEAVKQGIYSKPGGHNLFIQKTEELKAKYYREPR
KGIQAEEVLQKYLKSKESVSHAILQTDQALTETEKKKKEAQVKAEEKAEQAQRLAAIQRQNEQMMQERERLHQEQ
VRQMEIAKQNWLAEEQQKMQEQQMQEQAQLSTTFQAQNRSLSELQHAQRTVNNDDFCVLL

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FIGURE 1812A

ATTATGGGCTGTGGGTGCCGCTGAGCAAGATGGAGCTGTCTGCAGTGGGCGAGCGGGTCTTCGCGGCCGAATCCA
TCATCAAACGGCGGATCCGAAAGGGACGCATCGAGTACCTGGTGAAATGGAAGGGGTGGGCGATCAAGTACAGCA
CTTGGGAGCCCGAGGAGAACATCCTGGACTCGCGGCTCATTGCAGCCTTCGAACAAAAGGAGAGGGAGCGTGAGC
TGTATGGGCCCCAAGAAGAGGGGACCCAAACCCAAAACCTTTCTCTCTGAAGGCGCGGGCCCAGGCCGAGGCCCTCC
GCATCAGTGATGTGCATTTCTCTGTCAAGCCGAGCGCCAGTGCCCTCCTCGCCCCAAGCTGCACTCCAGCGCAGCCG
TGCACCGGCTCAAGAAGGACATCCGCCGCTGCCACCGTATGTCCC GCCGTCCCCTGCCCGCCCCGACCCGCAGG
GGGGCAGCCCCGGACTGCGCCCGCCATTTTCGCCCTTCTCGGAGACGGTGCGCATCATCAACCGCAAGGTGAAGC
CGCGGGAGCCCAAGCGGAACCGCATCATCCTGAACCTGAAGGTGATCGACAAGGGCGCTGGCGGCGGGGGCGCCG
GGCAGGGGGCGGGGCGCTGGCCCGCCCCAAAGTCCCCTCGCGGAACCGCGTTATAGGCAAGAGCAAGAAGTTCA
GCGAGAGCGTCTTGC GTACACAGATCCGCCACATGAAGTTTCGGCGCCTTTGCGCTGTACAAGCCTCCGCCCCGCC
CCCTGGTAGCCCCGTCCCCCGGCAAGGCTGAGGCCTCAGCCCCGGGCCCTGGGCTACTTCTGGCCGCCCCCGCCG
CCCCCTACGACGCCCGCAGCTCTGGCTCCTCCGGCTGCCCTCGCCTACACCACAGTCCTCTGACCCCCGACGACA
CGCCCCCAAGCTCCTCCCCGAGACCGTGAGCCCATCCGCCCCAGCTGGCGCGAGCCGGAGGTGCTCGACCTGT
CCCTCCCTCCCGAGTCGGCAGCCACCAGCAAGCGGGCACC CGCTGAGGTACAGCTGTGCGGCCCGGCACCTC
CCACGGCCCCCTGAGCCCGCCGGTGCTCCTCCGAGCCCGAGGTGGGGACTGGCGCCCCGAGATGTCACCCTGCT
CCAATGTGGTGTGTCACCGATGTACACAGCAACCTCCTGACGGTCACAATCAAGGAATTCTGCAACCCCTGAGGATT
TCGAGAAGGTGGCTGCTGGGGTAGCAGGCGCCGCTGGGGGCGGTGGCAGCATTGGGGCGAGCAAGTGGAGGGGGCT
CCACCAAGGAGGGGGGCTTGGGGGGGCCCTCCTGCCCGAAGTCATACTTGTCTCCACCCACCCCTTGCCCCA
GCCCTCTCTCCCTGTGCTTTGCTTGTCTCAAATGGCTCGGTGTTGACCCAGGGATGGGGCTGGGTAGTTGGGGTC
CCAGAAAGCCGGGGGTAGGGGGCCACCCTGGAATGGGGCAGGGGAAGGGCACACCCCTGCCCATGCATGGTAGCC
CACTGGGTGGTTTTCTGGAAGCCCTAGAACTAGGGTTCCTCTGCCCTTCCACATCCACCTGTCTCTCTAGCT
TGCTTCTCTCTCTCTGTGCGGCTGTGATTTCTCGGTGCTAACCTGGCAGCTGTGGGGCCCTTAGGAGCCCCC
ACCGAGGGTGGACACAGTCCCTTTCTTCTTCTGCGATGCCTAGGCAGGAGGAGGGCTTCTGCTGTTTGGCAAA
GTCCCAGGCAGAGGCCAAGGATGAGGCCTGACTCGGCTCCTCCCTCCACATCAGCCAGGGCATCAGAAGTTGGGC
CAGGGCGGGGTCTTCCCTGCTCGATTTTGGACGAGGCCTAAGTAGACCCCTATGCCCTGCCCCAGCCCTGGCTC
TTTCTTAACCCCTCAACGGTGGGAGGAACTGGCAGAGGGTGC GCCTGGCCACAGCCTCCCCGCATCTAAAGGCC
CCTTCAGTTCTTGACCAAAGGTGCTACGAGAACCTGCCGTGGAACTTCCAGTTGTGCGTCTGCCCCACTCGCTG
TGTTTTGTCCGTGGGTTTCATACATGCATTGGGTGCTAGGCCCCAGGCTGCCGGGTGGCACCCCTTTACAGTTCTTT
GAACAGGGGCATTGAAGGCCTGGACTGCCTCTCGCCTCAGTAGGCCTGGGGACCAGGCTTGGGTCTGGAGGTTTG
CTGTGGAAGTCACCAAGCCTCCCTTCTGGCCAGGTGTGCTGGGGGCACCGTGCCCCCAGCCCCCTGCCCTCC
TCAGGGTGGTCAGCCCAACCTGTGCGACCTTCACTTACATCATGGTGGGGACCGAGATAGAGAGGGAGACCCCA
TTCCAAGCTCCCTCTTCTCCGGGTGTTTGGGGAGGATGCTGAAGAATCCATTCCCAGAGGCCTCCCGGCTTGTG
CCAGCCCCCTCTTTGCTTCTGACCACGGAGGCTTTCTCACAGCCAGCCTGCCTGAAGCAAAGGAGGCTCCCGTG
TCTTGGGCAGCTTCTGTTTCCCTCTGCTGCCTGGGAGCTGAGGCACCCGTGCCAGTGGCAGAGGCCACAGCCCCA
GCCTTAGGCCAGGCCCTGGGAGGGCAGGCAGGCAAAGGGGAGACCAGAGGGTCTGTGTTCTCCAGGAGAATGAGG
GTGTTGGTCCCAGAAATGGGACCGGGGCCCCGCTGGCCAGCCCTGGGCCACTTCCCGGTCTCCATTGTGCGTGG
GTGGCGTGTCCAGGCGTGGCTGGAGCTGGCTTCTTGGCTGTGCTGCCATGGGCCCTCCCTCAGAAGCACGTTG
GCAGGAGGCCGATCAGAACCCTAGCGCCTTTGGTCTAAGAATGGGAGGCTGCCTTCTTCCCAATCTCCCTGCC
AGGGCCACAGCGTGGCCCTAGCCCTCCCTCCCCGGGATGTAGAACGGGGACCCTCGCAGGGTTGGGGCGGGGG
CTGATACTCCTCGGCCCCCTCCCTACCCTGCCCTGTGTGTTGGCTTTGTGGCCGTCCAAGTGCCAATTGGCTTTTC
GCCCAAATAAGGGCTGGTATTTCTCTCTGTCTTGGAGGTGATTTCCCCTGACCCCTCCCCAGGTGAGTGA
CCACCTGGGTGCCAGTTACAGGTGTTTCCAGAGACCATAGAAATGTGTTTTCTGAGAGTTCGTGTCACTTCGTGA
CTTTTTTGTAAAGAAGTTGTGTTTTTTCAGAGGTGATTTTATGACAGGAAAGTGAAAGAATTAGTTTTGCAAAAAA
CAAAAAAAGAGGAAAAAAGAAATAGAAAAAATATTGTGGGATTCTATGGGGGGGTGGCGGGGG
AGAAAGAGCTATTTAAGAAAAAATAGTAACGCAGTGATTGCACAGGTGAGGTGGCAATGTCAGGATGGGGCGGAG
GCCTGGGCCCAGCTGGCAGGTCCCCTGGCATCGCAGGCACTGTGGAGAGGGCTGGACCCAGATCTCCACACCCG
TGCTTGCTCAAAGGGAAGGACAACAGCGGGCCCCCGGGAGCTAACCCAAGCTGCAGGTCCCGGCAAGCTGAGGTT
TGGGAGGGTGGGGGTGTCACTGGTGATTTTCTCCAGGGGGCTGGTGAGTGGGCAGTTTGGTTTCTTGCCCCCTT

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FIGURE 1812B

CTGTTCCCTTTCCAGTTGTTGGGCCATCTGGTCCCCACCACCGCCACCCTATGGGGGAGACCTCCCTCCCCACGG
GTCACCCTAAAGCCCCACAACCTCTCTGAGCCTCCCTGGCCTGAAAGGGGATGCAGGCTTCAGGAGGCAAGAAGCT
GGGCCCCCTGGGGGTGGCTGGGGAGAGGGAATGCATTTCCCTTGCCACAGGTGGTCTGCTTCTGCTGGCCTGAGCT
CCAAGTGGAGCAGCCCGGGCCAGCCTTGTTGCATGAAGAGGCACCAGGCACACCGCCTTGAGGTGGGCAGTGCCC
GGGGGCCCCGAGTGGATGGGACCGAGGGTGAGTGGAGCCTCCTTCCCTCCCTCTCTAGTACCCCCGCCTCCAC
ACTTGACCGGATCGGCCTCCCTTGAGAGATCAGCCTCCATGGGCCCCCTCGTCCACCCTTGCTGCTTTCCATTT
CTTAATTACCAAGCAGAAGTTGCAATCTGGTTTGCTTTATTTTTGTATGTGAAATAACCCCCAAAGCCCAATCT
CCTCCTACGTTCAATATTGGTTGGGGCATCCGTCATCTCCCTTAAGTGCGCCCCCTCCCCACCCAAGTATCATA
AAACCGGTGAGGTCTGGTGTCTCTGGTTTGAGACGGTAAGTTGGGACCCATCCCTGTCTGGGTGCCACTCTG
CTTAGTTTGGCCTTCTGTGAAATGGGTGTATTGGGTAGCAAGCCCTCTTCAGAAAGCGCTGCTGGTGTGAGA
GCTGCCCCAGTACCAGGTGGGGGGTCAAGGTGCTGGTACTGGGGCCCCAGCTGCCACAACCCCTCTTTGT
CACCCTGCAAAGGGGTCAAGGTCAAAATGAGCCTCATCCTTCCTATGATCTGGGAAGAGGTGATGATCAAGT
CCCAACTTCAGTGTGAGGTGGACAGAGTTGGGGGGATGGCCCCCTTTTGAAGAGGTGAAAATGGTTTTGGAGAA
GCGCAGCTGCTTCACTGGGGGAATGCGGCAGGGACTGGGGCCCAGGATGCTTTGGCCTATGGGAAAAGCCCTTT
AAAAGGCAGGGCCCAGGCCCTGGAGCCAGCACAAAGACTGGCCTCGAGCCCTGAGCCAGGAGGTCTGGAGGAGA
GCCAGGCCGGTGGGCCCGCCCAAGGCTGGAGGGTCAGCCCCAACAGGGAGCTGGGTGGCCAGGGGGCTGGACTG
CTACCAGCCTCTCTGGCCTATGGGGACCAAGAGGACACATCCCCCTTTTGCCCACTCTTCTGTGTCAATTTGTT
GTTTTGGTTTGTGGTGGTTTTTCTTTTTCTTTTGTTTTTCTTTTTCTTTCTTTTTTTTTTTTTTTTTTTT
TTTTTTTTGCACTTCGCCCACACAGGACAGTGGAGCCCCACCTGGTCAGTTCCACTTCCGGGCTCCCATGCACTT
GCCCAAGGCGGCCTCTTTGGGACGGGGATGGTTGAGGAAACACTTTTAAAGAAAAAGGAAGACATTGAAAGGT
TTTAGTTTCTTCCCTATCTGCATGTCTCTCATATAGAAAGCCCAGAATTAGGGGCTAGAACTCCAGGAGAGGGT
CTCCCCGACTCATCTCTTGCTGACGGTCACCAGGATGCAGAAATAGGGAGATGGTTAGTGGGGGCCAAAGATGCC
CCCTCCCAGGCCTTCGTGGTTCCCTCCTCCGCCCCCTGCAATCTTTGGAGGAGTCAGTGCCTCACTCCAGCAGTG
AGTGCCTACTGTATGCAGGTAGTCAGCCAGGCAAAGAGAGACTAACGGTCTCATGGGGGAACCTCTTGCGGGAG
GCCGGGTAGCTGGAGCGAAGCGTTCCGGCTGCCCTTGCTGCTGGGTGGAGTGGAGAGGGGAGACTTCTTTTTGTTG
GTTTTAATTTAAAAACACAAAGGCCTAAAGAAATACGTATCTTATAATTTTTTAATTTTTTGAGACGTTCAATTA
ATGAATTGTGCACGAATGAATCTATATATATAAAATATACATATATAGCTCTATATTTGGGGAGGGGGCACTGTC
TCTTTTTCTCTCATTTTTTAAATGAAGTGTGTTGCTTTGTATGTGGTTCAACCATCCAGCTCCCAGCTGGCT
AAACTTTGCCTCCAGTGGTCAAAGATGGGAAAAGAGTGGGGTTGGCAGGAGATGGAAAACGGAGGTGCCGCCCA
GCATGGGGGGCAGGTCCCCCAGTCCACCCTGCCCTCCCCCTGTGGAGAAGACGCTTAGTTGGGGGTGTGGGTTT
GGGCTCCATTCTGGATTGCGCGGTTCCGGGGGAGGGGTGGGTCTGTGCCGATTACTCTGTCTTGTACGTTTGTTC
TGCTGCTCTTCAATATTGTATCAACGCCAGGAAAGGGGGGTGAAAAGCCTCTTTTACCCCCCAATAAATTGTCA
CATTCCGAAGCTGA

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FIGURE 1813

MELSAVGERVFAAESIIKRRIRKGRIEYLVKWKGWAIKYSTWEPEENILDSRLIAAFEQKERERELYGPKKRGPK
PKTFLLKARAQAEALRISDVHFSVKPSASASSPKLHSSAAVHRLKKDIRRCHRMSSRRPLPRPDPOGGSPGLRPP I
SPFSETVRI INRKVKPREPKRNRIILNLKVIDKGAGGGGAGQGAGALARPKVPSRNRVIGKSKKFSESVLRTQIR
HMKFGAFALYKPPPAPLVAPSPGKAEASAPGPGLLLAAPAAPYDARSSGSSGCPSPTPQSSDPDDTPPKLLPETV
SPSAPSWREPEVLDLSLPPESAATSKRAPPEVTAAGPAPPTAPEFAGASSEPEAGDWRPEMSPCSNVVVTDVTS
NLLTVTIKEFCNPEDFEKVAAGVAGAAGGGGSIGASK

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FIGURE 1814

ACGCGCGCCCTGCGGAGCCCGCCCAACTCCGGCGAGCCGGGCGCTGCGCCTACTCCTCCTCCTCCTCCTCCCGGCGG
CGGCTGCGGCGGAGGCGCCGACTCGGCCCTTGCGCCCGCCCTCAGGCCCGCGCGGGCGGCGCAGCGAGGCCCGGG
CGGCGGGTGGTGGCTGCCAGGCGGCTCGGCCGCGGGCGCTGCCCGGCCCGGCGAGCGGAGGGCGGAGCGCGGCG
CCGGAGCCGAGGGCGCGCCGCGGAGGGGTGCTGGGCCGCGCTGTGCCCGGCCGGGCGGCGGCTGCAAGAGGAGG
CCGGAGGCGAGCGGGGGCCGGCGGTGGGCGCGCAGGGCGGCTCGCAGCTCGCAGCCGGGGCCGGGCCAGGCGTT
CAGGCAGGTGATCGGTGTGGCGGCGGCGGCGGCCCGAGACTCCCTCCGGAGTTCTTCTTGGGGCTGATG
TCCGCAAATATGCAGAATTACCGGCCGGGTGCTCCTGAAGCCAGCGCGGGAGCGAGCGCGGCGGCGGCCAGCA
CCGGGAACGCACCGAGGAAGAAGCCAGCCCCGCCCTCCGCCCTTCCGTCCCCACCCCTACCCGGCGGCCCA
GGAGGCTCCCCGGCTGCGGCGCGCACTCCCTGTTTTCTCCTCCTCCTGGCTGGCGCTGCCTGCCTCTCCGCACTCA
CTGCTCGCCGGGCGCCGTCCGCCAGCTCCGTGCTCCCCGCGCCACCCTCCTCCGGGCGCGCTCCCTAAGGGATG
GTACTGAATTTCCGCCCCACAGGAGACCGGTGGAGCGCCCCGCGCCCTCGCCTCTCCTCCGAGCAGCCAGC
GCCTCGGGACGCGATGAGGACCTTGGCTTGCCTGCTGCTCCTCGGCTGCGGATACCTCGCCCATGTTCTGGCCGA
GGAAGCCGAGATCCCCCGCGAGGTGATCGAGAGGCTGGCCCGCAGTCAGATCCACAGCATCCGGGACCTCCAGCG
ACTCCTGGAGATAGACTCCGTAGGGAGTGAGGATTCTTTGGACACCAGCCTGAGAGCTCACGGGGTCCACGCCAC
TAAGCATGTGCCCGAGAAGCGGCCCTGCCCATTCGGAGGAAGAGAAGCATCGAGGAAGCTGTCCCCGCTGTCTG
CAAGACCAGGACGGTCATTTACGAGATTCTCGGAGTCAGGTGACCCCCACGTCCGCCAACTTCTGATCTGGCC
CCCGTGCGTGGAGGTGAAACGCTGCACCGGTGCTGCAACACGAGCAGTGTCAGTGCCAGCCCTCCGCGTCCA
CCACCGCAGCGTCAAGGTGGCCAAGGTGGAATACGTCAGGAAGAAGCCAAAATTAAAGAAGTCCAGGTGAGGTT
AGAGGAGCATTGGAGTGCGCCTGCGCGACCACAAGCCTGAATCCGGATTATCGGGAAGAGGACACGGGAAGGCC
TAGGGAGTCAGGTAAAAACGGAAAAGAAAAGGTTAAAAACCCACCTAAGATGTGAGGTGAGGATGAGCCGCAGC
CCTTTCCTGGGACATGGATGTACATGGCGTGTTACATTCTGAACCTACTATGTACGGTGCTTTATTGCCAGTGT
GCGGTCTTTGTTCTCCTCCGTGAAAACTGTGTCCGAGAACACTCGGGAGAACAAGAGACAGTGCACATTTGTT
TAATGTGACATCAAAGCAAGTATTGTAGCACTCGGTGAAGCAGTAAGAAGCTTCCTTGTCAAAAAGAGAGAGAGA
GAGAGAGAGAGAGAAAACAAAACCACAAATGACAAAAACAAAACGGACTCACAAAAATATCTAAACTCGATGAGA
TGGAGGGTGCCTCCGTGGGATGGAAGTGACAGAGGTCTCAGCAGACTGGATTTCTGTCCGGGTGGTCACAGGTGCT
TTTTTGCCGAGGATGCAGAGCCTGCTTTGGGAACGACTCCAGAGGGGTGCTGGTGGGCTCTGCAGGGCCCCGAGG
AAGCAGGAATGTCTTGGAACCGCCACGCGAATTTAGAAACCACACCTCCTCGCTGTAGTATTTAAGCCCATAC
AGAAACCTTCCTGAGAGCCTTAAGTGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTACACCATAAAGTGATTATTAAGCTTCCTTTTACTCTTTGGCTAGCTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTAAATTATCTCTTGGATGACATTTACACCGATAACACACAGGCTGCTGTAACCTGTCAGGACA
GTGCGACGGTATTTTCTAGCAAGATGCAACTAATGAGATGTATTAATAAATGATGATACCTACCTATGC
ATCATTTCTAAATGTTTCTGGCTTTGTGTTTCTCCCTTACCCTGCTTTATTTGTTAATTTAAGCCATTTTGAAA
GAACTATGCGTCAACCAATCGTACGCCGTCCCTGCGGCACCTGCCCCAGAGCCCGTTTGTGGCTGAGTGACAACT
TGTTCCCCGAGTGACACCTAGAATGCTGTGTTCCACGCGGCACGTGAGATGCATTGCCGCTTCTGTCTGTGT
TGTTGGTGTGCCCTGGTGCGGTGGTGGCGGTCACTCCCTCTGCTGCCAGTGTGTTGGACAGAACCCAAATCTTTA
TTTTTGGTAAGATATTGTGCTTTACCTGTATTAACAGAAATGTGTGTGTGTGGTTTGTTTTTTTGTAAAGGTGAA
GTTTGTATGTTTACCTAATATTACCTGTTTTGTATACCTGAGAGCCTGCTATGTTCTTCTTTTGTGTATCCAAA
TTAAAAAAAATACCACCAAC

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FIGURE 1815

MRTLACLLLLGCGYLAHVLAEEAEIPREVIEWERLARSQIHSIRDLQRLLEIDSVGSEDSLDTSRAHGVHATKHVP
EKRPLPIRRKRSIEEAVPAVCKTRTVIYEIPRSQVDPTSANFLIWPPCDEVKRCTGCCNTSSVKCQPSRVHHRVS
KVAKVEYVRKKPKLKEVQVRLEEHLECACATTSLNPDYREEDTGRPRESGKKRKRRLKPT

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FIGURE 1816

CGCTGCTTAGGCTCCGCGGCCTCCAAGCTGTAGCTATGACGGCGCGCGGGACTCCGAGCCGCTTCTTGCCAGCG
TTCTCCACAACGGACTGGGTCGCTATGTGCAGCAGCTGCAGCGTCTGAGCTTCAGCGTCAGCCGCGACGGCGCCT
CGTCTCGCGGCGCCAGGGAGTTCGTGGAGCGGGAGGTGATCGACTTCGCCCCGACGGAATCCAGGGGTCGTAATAT
ATGTAAACTCGCGTCCGTGCTGCGTGCCAGAGTAGTGGCCGAATACCTTAACGGGGCTGTGCGCGAGGAGAGCA
TCCACTGCAAGTCGGTCGAGGAGATCTCGACGCTGGTGCAGAAGCTGGCCGACCAGTCGGGGCTTGGACGTGATCC
GCATCCGCAAGCCCTTCCACACCGACAACCCTAGCATCCAGGGCCAGTGGAACCCCTTACCAACAAGCCGACCAC
GTTCCGCGGGCTACGCCCCGAGAGGTTTCAAGATCCTGCCCCAGCCAGGTGCAAGCACAGTGAAGAGTTGCCCC
ACCAACTGCAGCCCCAGGCTTTGGACTGTTACTCCGGTAAAGGTGGTTCTTCCCCTTTGGGATTCCAAGCCCAGG
CAAATGGAACCCATCAATGGGCAAGTTGACAGAGGTTCTGCTTGGGATAATGAAGAGCTGCCTGTTTCTTTCCAG
TGCCTGCTTCTGGGGGCAGTGACCTTGTGAACCACTCATTTTTATGCAAGTGGCATCCCTAAAACCTGAGATGAG
GAAGACTTCAAGGGTTTTACAGGGCCCTTGTTTTTAAATCCAAATTGATAATAATGATCTCAAAACACAGTGAG
AGGTCTGAAGGCTGGCTTCTGAAGAATCCCTGATGTCTTATTGGAACAACCACTGAGCTACGGAGAGCTCTGCTG
TGATGGGCTAGGCACTTTATATCTGTGTGAATACAGATTTATAAAACAGGTTAATAAACTTATCCAAGGTCA

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FIGURE 1817

MTARGTPSRFLASVLHNGLGRYVQQLQRLSFSVSRDGASSRGAREFVEREVIDFARRNPGVVIYVNSRPCCVPRV
VAEYLNQAVREESIHCKSVEEISTLVQKLADQSGLDVIRIRKPFHTDNPSIQGQWTPSPTSRRPSAGYAPERFRI
LPQPRCKHSEELPHQLQPQALDCYSGKGGSSPLGFQAQANGTHQWAS

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FIGURE 1818

ACGAGGCTGAGCGGGACCTGCGAGCAGCGCGGGCGGCAGCCCGGGGAAGCGTCCGGGACCATGTCTGGAGAACT
ACCACCAAACATTAACATCAAGGAACCTCGATGGGATCAAAGCACTTTCATTGGACGAGCCAATCATTCTTCAC
TGTAAGTACCCAGGAACATTCTGTTAACCAACGAACAACCTCGAGAGTGCAGAGAAAAATAGTACATGATTACAG
GCAAGGAATTGTTCTCTCTGGTCTTACAGAAAATGAATTGTGGAGAGCAAAGTACATCTATGATTACGCTTTTCA
CTGACACTGGTGAGAAGATGATTTTGATAGGAAGAATGTCAGCCCAGGTTCCCATGAACATGACCATCACAGG
TATGATGACGTTTTACAGGACTACGCCGGCTGTGCTGTTCTGGCAGTGGATTAACCAGTCCTTCAATGCCGT
TCAATTACACCAACAGAAGTGGAGACGCACCCCTCACTGTCAATGAGTTGGGAACAGCTTACGTTTTCTGCAAC
AACTGGTGCCGTAGCAACAGCTCTAGGACTCAATGCATTGACCAAGCATGTCTCACCCTGATAGGACGTTTTGT
TCTTTGCTGCCGTAGCTGCTGCTAATTGCATTAATATTCCATTAATGAGGCAAAGGGAAGTCAAAGTTGGCAT
TGGTCACGGATGAGAATGGGAACCGCTTGGGGGAGTCGGCGAACGCTGCGAAACAAGCCATCACGCAAGTTGT
TCTCCAGGATTCTCATGGCAGCCCTGGCATGGCCATCCCTCCATTCAATTATGAACACTTTGGAAAAGAAAGC
TTTTGAAGAGGTTCCCATGGATGAGTGCACCCATTCAAGTTGGGTTAGTTGGCTTCTGTTTGGTGTGCTAC
TCTCTGTGTTGTGCCCTGTTTCTCAGAAAAGTTCCATGTCTGTGACAAGCTTGGAGGCCGAGTTGCAAGCTAA
GATCCAAGAGAGCCATCCTGAATTGCGACGCGTGTACTTCAATAAGGGATTGTAAGCAGGGAGGAAACCTCTGC
AGCTCATTCTGCCACTGCAAAGCTGGTGTAGCCATGCTGGTGAGAAAAATCCTGTTCAACCTGGGTTCTCCAGT
TACGGAAACCTTTTAAAGATCCACATTAGCCTTTTAGAATAAAGCTGCTACTTTAACAGAGCACCTGGCGTGGGC
CAAGTGCTGATACTCCCTTACACTGAATCATGTTATGATTTATAGAAATACCTTTCTGTAGCTTTTATAGTCA
TTGTTTTTCAAAGACGATATACCAGCCCTCACCCAGGTTTTAAAAAAGCACTGGTAGGCATAGAATAGGTGCTCA
GTATATGGTCAGTAAATGTTCTATTGATTATCAATCAGTGAAAAAAGGAGATTATAA
AAGGGATGATGAACATGGAGCTGCATCTTTTTAAACGTTGTTTTTGTATGCTTCAGACTCTTAATGCTTTTATAT
AAAGCTATCAACTGTATGTTGATCACAGTTTATAAGAAAGAACAAATCAAGATTGGCAATCCTTGCCGATCTTT
AGAAATACCTTTTCTGGAGAAAAAATCCACATGAAGTGCAATAAGCTTATAAAGCTAAGTAGTTATTAATATT
TCTATTAACATGATACAAAGGATGATGATTGTAAGTGTCTACTGACTGGCAGCTTTTATTTTCAGTATTAGCACAG
CGTCTTGCCAGTGTGGAGGCCATGTATTATTTCAAGTCAACTGGATGAAATGTTAAATAAACTCAGAATGAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1819

MSGELPPNINIKEPRWDQSTFIGRANHFFTVTDPRNILLTNEQLESARKIVHDYRQGIVPPGLTENELWRAKYIY
DSAFHPDTGEKMILIGRMSAQVPMNMTITGCMMTFYRTTPAVLFWQWINQSFNAVVNYTNRSGDAPLTVNELGTA
YVSATTGAVATALGLNALTCHKVSPILIGRFVPFAAVAAANCINIPLMRQRELKVGIPVTDENG NRLGESANA AKQA
ITQVVVSRILMAAPGMAIPPFIMNTLEKKAFLKRFPWMSAPIQVGLVGFCLVFATPLCCALFPQKSSMSVTSLEA
ELQAKIQESHPELRRVYFNKGL

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FIGURE 1820

CCTGTCTCAAAAAAAAAAAAAATATCACCCCTTAAATCAACAAAAAGACCTCATGCTCATGCAGTGGACATTTCTT
GGCCTGTTTTCTGTGGGTTTTCTTCAGCATTGATATGAAGCAACTGTTGGCATAGCCAGTGGGATAAATAAGAAA
TGGAATCATTGGCTGCCTCGTCACTTGTGCTAATGGTCAGTTGTACACACATGACATGTGGAAGTGACCTGTAG
CAGCGGTCACTCATTTTAACAATTGAACTCTGCTGGGTTGGGTATTTACCTTTGTCTAGAAAAGAAATATGATAT
ATTTCTCTAAATAAATTTATTTTCATCATTCCAAAA

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FIGURE 1821

PVSKKKKISPLNQKDLMLMQWTFGLGFSCGFSSA

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FIGURE 1822

GTCACCCCCAGCGGGCGCGGGCCGGAGCACGGGCACCCAGCATGGGGGTACTGCTCACACAGAGGACGCTGCTCA
GTCTGGTCCTTGCACTCCTGTTTCCAAGCATGGCGAGCATGGCGGCTATAGGCAGCTGCTCGAAAGAGTACCGCG
TGCTCCTTGGCCAGCTCCAGAAGCAGACAGATCTCATGCAGGACACCAGCAGACTCCTGGACCCCTATATACGTA
TCCAAGGCCTGGATGTTCTAAACTGAGAGAGCACTGCAGGGAGCGCCCCGGGGCCTTCCCCAGTGAGGAGACCC
TGAGGGGGCTGGGCAGGCGGGGCTTCTGCAGACCCTCAATGCCACACTGGGCTGCGTCTGCACAGACTGGCCG
ACTTAGAGCAGCGCTCCCCAAGGCCCAGGATTTGGAGAGGTCTGGGCTGAACATCGAGGACTTGAGAGAAGCTGC
AGATGGCGAGGCCGAACATCCTCGGGCTCAGGAACAACATCTACTGCATGGCCCAGCTGCTGGACAACCTCAGACA
CGGCTGAGCCACGAAGGCTGGCCGGGGGGCCTCTCAGCCGCCCCACCCCTGCCTCGGATGCTTTTCAGC
GCAAGCTGGAGGGCTGCAGGTTCTGCATGGCTACCATCGCTTCATGCACTCAGTGGGGCGGGTCTTCAGCAAGT
GGGGGGAGAGCCCGAACCGGAGCCGGAGACACAGCCCCACCAGGCCCTGAGGAAGGGGTGCGCAGGACCAGAC
CCTCCAGGAAAGGCAAGAGACTCATGACCAGGGGACAGCTGCCCCGGTAGCCTCGAGAGCACCCCTTGCCGGTGA
AGGATGCGGCAGGTGCTCTGTGGATGAGAGGAACCATCGCAGGATGACAGCTCCCGGGTCCCCAACCTGTTCCC
CTCTGCTACTAGCCACTGAGAAGTGCACTTTAAGAGGTGGGAGCTGGGCAGACCCCTCTACCTCCTCCAGGCTGG
GAGACAGAGTCAGGCTGTTGCGCTCCACCTCAGCCCCAAGTTCCCCAGGCCCAGTGGGGTGGCCGGGCGGGCCA
CGCGGGACCGACTTTCCATTGATTACAGGGGTCTGATGACACAGGCTGACTCATGGCCGGGCTGACTGCCCCCTG
CCTTGCTCCCCGAGGCCTGCCGGTCTTCCCTCTCATGACTTGCCAGGGCCGTTGCCCCAGACTTCCTCCTTTCC
GTGTTTCTGAAGGGGAGGTACAGCCTGAGCTGGCCTCCTATGCCTCATCATGTCCCAAACCAGACACCTGGATG
TCTGGGTGACCTCACTTTAGGCAGCTGTAACAGCGGCAGGGTGTCAGGAGCCCTGATCCGGGGGTCCAGGGAA
TGGAGCTCAGGTCCCAGGCCAGCCCCGAAGTCGCCACGTGGCCTGGGGCAGGTCACTTTACCTCTGTGGACCTGT
TTTCTCTTTGTGAAGCTAGGGAGTTAGAGGCTGTACAAGGCCCCCACTGCCTGTGCGTTGCTTGGAATCCCTGAC
GTAAGGTGGATATTAAAAATCTGTAAATCAGGACAGGTGGTGCAAATGGCGCTGGGAGGTGTACACGGAGGTCTC
TGTAAGAGCAGACCCACCTCCCAGCGCCGGGAAGCCCGTCTTGGGTCTCGCTGCTGGCTGCTCCCCCTGGTGGT
GGATCCTGGAATTTTCTCACGCAGGAGCCATTGCTCTCCTAGAGGGGGTCTCAGAACTGCGAGGCCAGTTCCTT
GGAGGGACATGACTAATTTATCGATTTTATCAATTTTATCAGTTTTATTTATAAGCCTTATTTATGATGTA
TATTTAATGTTAATATTGTGCAAACTTATATTTAAACTTGCTGGTTTCTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1823

MGVLLTQRTLLSLVLALLFPMSMAAIGSCSKEYRVLLGQLQKQTDLMQDTSRLDPYIRIQGLDVFKLREHCR
ERPGAFPSEETLRGLGRRGFLQTLNATLGCVLHRLADLEQRLPKAQDLERSGLNIEDLEKLQMARPNILGLRNNI
YCAQLLDNSDTAEPKAGRGASQPPTPTPASDAFQRKLEGCRFLHGYHRFMHSVGRVFSKWGESPNRSRRHSPH
QALRKGVRRTRPSRK GKRLMTRGQLPR

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FIGURE 1824A

CCCGGCCCGCCGGGACCGCAGGTAACGGGGCCGCGGGGCCCGCGGGCCAGGAGGGGAACGGGGTCGGGCGGGCGA
GCAGCGGGCAGGGGAGCTCAGGGCTCGGCTCCGGGCTCTGCCGCCGATTGTTGGGGCCGCGAGGAAGAGCTGCCA
GCCGAGGGCCTGGGGCCGGCGCACTCCTCCCGCCCTGTCTGCAGTTGGAAAACCTTTTCCCCAAGTTTGGGGCGGC
GGAGTTCCGGGGGAGAAGGGGCCGGGGGAGCCGCGAGGGAGGCGCCGGGCCCGCGCGTGTAGGGCCCAGGCCGA
TCGGGACGCGGGTGGGGCGCAGGCCCGGGTACGGGCCGACCCGGCTGTGCGCCGTGCCCGCCCGGGGCGCTG
CTCCCTCCCTGGGAGCTGCGTGGCTCCCCCTCCCCCACCTGCTTCCTGCCTCAGCCTCCTGCCCGA
TAACGCCCTCCCCGCGCCGGGCCCTTCGCGCTCTGCCGCCACGGCAGCCGCTGCCCTCCGCTCCCCGCG
GGGCCGCCGCCGGGCCCGACCGAGGGTTGACAGCCCCGGCCAGGGCGGCGCCAGGGCGGGCACCGCGCTCCC
CTCCGTATCACTTCCCCAACTGGGGCACTTCTCCCGAGGCGGGAGGCGCTGGTTCTCGGCTCCCTTTCT
TACTTGGGTAAAGTTCTCCGCCCTGAATGACTTTTCTTGAAGCGGACATTTTACTTAAATCGGGTAACTGTC
AAAAGGGTCACTGCGCCTGAACAGTTTCTTCTCGGAAGCCCCAGCACCCAGCCAGGTGCCCTGGGGCGTGC
TCGCCCCTGGCTCCCTCCACCGGCGGCGCTCACCTCCTGCTCCTTCTCCTGGTCCGGGCGGGCCGGCCTG
CTCCCACTCCAGAGGGCAGCTGGTCTTCGCGGTGCCAGGCCGAGGGCTGATGCCCCGCTCAGCTGAGG
GAAGGGGAAGTGGAGGGGAGAAGTGCCGGGTGGGGCCAGGCGGCCAGGGCGCCGACGGCTCTCACCCGGCCGG
TGTGTGTCCTCCGAGGAGTGTGCTGGGCAGACGATGCTGGACACGATGGAGGCGCCCGGCCACTCCAGGCAGC
TGCTGCTGCAGCTCAACAACCAGCGCACCAAGGGCTTCTTGTGCGACGTGATCATCGTGGTGCAGAACGCCCTCT
TCCGCGCGACAAGAAGTGTGTCGGGCCAGCAGCGCCTACCTCAAGTCCCTGGTGGTGCATGACAACCTGCTCA
ACCTGGACCATGACATGGTGAGCCCGGCCGTGTTCCGCTGGTGTGACTTCATCTACACCGGCCGCTGGCTG
ACGGCGCAGAGGCGGCTGCGGCCGCGGCCGTGGCCCCGGGGGTGAGCCGAGCCTGGGCGCCGTGCTGGCCGCCG
CCAGCTACCTGCAGATCCCCGACCTCGTGGCGCTGTGCAAGAAACGCCTCAAGCGCCACGGCAAGTACTGCCACC
TGCGGGGCGGCGGCGGCGGCGGCGGCTACGCGCCCTATGCTATGGCGACGAGCTGGGCGGGGAGCGCGGCTC
CCCCAGCGAGCGCTGCGAAGAGCGTGGTGGGGACGCGGCCGTCTCGCCCGGGGGGCCCGCTCGGCCTGGCGCC
GCCGCCGCGCTACCCTGGCAGCCTGGACGGGCCCCGGCGCGGGCGGCGACGGCGACGACTACAAGAGCAGCAGCGA
GGAGACCGGTAGCAGCGAGGACCCAGCACCGCCTGGCGGCCACCTCGAGGGCTACCCATGCCCCGACCTGGCCT
ATGGCGAGCCCGAGAGCTTCGGTGACAACCTGTACGTGTGCATTCCGTGCGGCAAGGGCTTCCCCAGCTCTGAGC
AGCTGAACGCGCACGTGGAGGCTCACGTGGAGGAGGAGGAAGCGCTGTACGGCAGGGCCGAGGCGGGCCGAAGTGG
CCGCTGGGGCGCGCGGCTAGGGCCCCCTTTTGAGGCGGCGGGGACAAGGTGCGCGGGGCTCCGGGTGGCCTGG
GAGAGCTGCTGCGGCCCTACCGCTGCGGCTCGTGCGACAAGAGCTACAAGGACCCGGCCACGCTGCGGCAGCACG
AGAAGACGCACTGGCTGACCCGGCCCTACCCATGCACCATCTGCGGGAAGAAGTTACGCGAGCGTGGGACCATGA
CGCGCCACATGCGCAGCCACCTGGGCCTCAAGCCCTTCGCGTGCGACGCGTGCGGCATGCGGTTACGCGCCAGT
ACCGCCTCACCCGACGCACATGCGCATCCACCTTCGCGGCGAGAAGCCCTACGAGTGCCAGGTGTGCGGCGGCA
AGTTGCGACAGCAACGCAACCTCATCAGCCACATGAAGATGCACGCCGTGGGGGGCGCGGCGGCGCGGCCGGGC
GCTGGCGGGCTTGGGGGGGCTCCCCGGCGTCCCCGGCCCCGACGGCAAGGGCAAGCTCGACTTCCCCGAGGGCGT
CTTTGCTGTGGCTCGCTCACGGCCGAGCAGCTGAGCCTGAAGCAGCAGGACAAGGCGGCGCGACCGAGCTGCTG
GCGCAGACCACGCACTTCTGCAAGACCCCAAGGTGGCGCTGGAGAGCCTCTACCCGCTGGCCAAGTTCACGGCC
GAGCTGGGCCTCAGCCCCGACAAGGCGGCCGAGGTGCTGAGCCAGGGCGCTCACCTGGCGGCCGGGCCCGACGGC
GGACCATCGACCGTTTCTCTCCACCTAGAGCGCCCCCTCGCCAGCCCGCTCTGTGCTGCTGCGCGGCCCTGGCC
CGCACCCAGGGAGCGGCGGGGGCGGCGCGCAGGGCCCACTGTGCCCGGACAACCGCAGCGTGCACACAGTGGC
GGCTCCACCTCTCGGCGGCCTCACCTGGCCTCACTGCTTCGTGCCTTAGCTCGGGGGTTCGGGGGAGAACCCCGGG
ACGGGGTGGGATGGGGTAAGGGAAATTTATATTTTGATATCAGCTTTGACCAAAGGAGACCCAGGCCCTCCC
GCCTCTTCTGTGGTTTCGTGCGCCCCCTCCCCGGCTCCGCGCTGCTCTTAGAGGGGGAGGGGTGTCACTGTGCG
GGCACTCCTAGCCCTACCTCCGGCCCTTGCGACCACACCCATTCTCACTGTGAATCTCCCCGCTGGGTGCGAGCG
TCGGGCAGAGTTGGGGAGTGGGGAGGGGACTGAGCCGGCCGAGGCCCCCGCACCCCCGCTCCACCCACCCCGG
GACTGATAATGTGAAGTTCTCATTTTGACAAGTGGCACTAGCCCAGGGCCAACCTTCTTCTCAGTACCA
AGGGCGGGGAGTTCTGGAGTCGGAAGGCGAAGAGCCTACCACCAGGTCTCCCACTCCCGCGGTGCCCTCCCTTCC
CTTCCCTGCGGCCCCGACCATATTTATTGCATGCGCCCCGGCGGCCCCCATCCCCGAGCCAGGCTGGGCTGGG
CTGGAACGCGGTCTCTTTAGCTCCCTCCTCTTCGTTGTATATTTCTACCTTGTACACAGCTCTTCCAGAGCCG
CTTCCATTTCTATACTCGAACCAAACAGCAATAAAGCAGTAACCAAGGACCCCGACCCCGCTGCTCTTCTGCG

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FIGURE 1824B

CCCTGCACAAGGACCTGGATGCTGCGCCCGCTGGGTGGAGGAGCCAGAAAGGGCCACCCTCACACAGGTGCAGAG
GCTTGGACCTGCCTCCCTCCCCAGTCCCAGAAACAGATCAGCAAGAGGTCAGGTATGTTTCATAACTAAAAATTT
ATTAAGGAAACAAAACCACTGCTGCAAACGGGACAGAAAGGAGAGCTGGGTCTCCCTCCCGACCACCCAGTCATC
GGCCTTCCAGCTGGGGAGAGAATCTTAAAGGAGAGGCCGGGGACCCTGTACTCCAAAGAGCCCAGTCTTCTGAGA
CTCTAGGGGACTCCTACCCCCAACTACTGGCCTTGGCTCCCCCTACACGGTACCCCATCGTTTCTGGCATAGTCC
TGGGCCTCAGGGAGGGCAGAGCTGCGCACCCATCCTCCAGGCAGGCTGTGCAGTCAGGCCATGGGCTCTGGGGTA
TCCCCCACTGGTCCCATTAAAGATTTGCCCCTGGCTCCACCGAAAACCCCGTCTTCCCCTAAG

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FIGURE 1825

MLDTMEAPGHSRQLLLQLNNQRTKGFLCDVIIIVQNALFRAHKNVLAASSAYLKSLVVHDNLLNLDHDMVSPAVF
RLVLDFIYTGRLADGAEEEEAAVAPGAEP SLGAVLAAASYLQIPDLVALCKKRLKRHGKYCHLRGGGGGGGGYA
PYAMATSWAGSAAPPASAAKSVVGTRPSRPGGPRSAWRRRRATLAAWTGPARAATATTTTRAAARRPVAARTPAPP
GGHLEGYPCHLAYGEPESFGDNLYVCIPCGKGFPSSSEQLNHVEAHVEEEEALYGRAEAAEVAAGAAGLGPPFG
GGGDKVAGAPGGLGELLRPYRCGSCDKSYKDPATLRQHEKTHWLTRPYPCTICGKKFTQRTMTRHMRSHLGLKP
FACDACGMRFTROYRLTRTHMRIHPRGEKPYECQVCGGKFAQQRNLI SHMKMHAVGGAAARFGRWRAWGGSPASP
APTARASSTSPRASLLWLAHGAAEPEAAGQGGRDRAAGADHALPARPQGGAGEPLPAGQVHGRAGPQPRQGGRG
AEPGRSPGGRARRRTIDRFST

[illegible]

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FIGURE 1827

MFGCLVAGRLVQTAAQOVAEDKFVFDLPDYESINHVVVFM LGTIPFPEGMGGSVYFSYPDSNGMPVWQLLGFTN
GKPSAIFKISGLKSGEGSQHPFGAMNIVRTPSVAQIGISVELLD SMAQQTPVGNAAVSSVDSFTQFTQKMLDNFY
NFASSFAVSQAQMTPSPSEMFIPANVVLKWEYENFQRRLAQNPLFWKT

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FIGURE 1828

CGCTGTTGCCTCCGCCACCTCCTCCGCCGCCGCGCGCCCTCGGAGTTCCGCGCCCCACCATGCCCAACATCGTG
CTGTTTCAGCGGCAGCTCGCATCAGGACCTATCCAGCGCGTGGCCGACCGCCTGGGCCTGGAGCTGGGCAAGGTG
GTCACGAAGAAGTTCAGCAACCAGGAGACCAGCGTGGAGATTGGTGAAAAGCGTGAGAGGGGAAGATGTCTACATC
ATCCAGAGCGGCTGCGGGGAAATTAACGACAACCTGATGGAACCTCATCATGATCAATGCCTGCAAGATTGCG
TCATCATCCAGAGTAAC TGCCGTGATCCCGTGTTCCTATACGCCCGACAAGATAAAAAGGACAAGAGTCGTGCC
CCAATTTCTGCAAACTTGTGGCCAATATGCTGTCGGTGGCTGGGGCGGATCACATCATCACCATGGACCTGCAT
GCTTCTCAGATACAGGGATTCTTTGATATTCTGTGGATAATTTGTATGCGGAGCCCGAGTCTTCAGTGGATT
CGGGAAAACATTGCCGAGTGGAAGAACTGTATCATTGTTTACCTGACGCAGGGGGAGCCAAAAGGGTTACATCA
ATTGCAGACAGGTTGAATGTGGAATTTGCTTTGATCCACAAAGAGAGGAAGAAGGCGAATGAAGTGGACCGGATG
GTCCTGGTGGGCGACGTGAAGGACCGTGTGGCCATCCTCGTGGATGACATGGCTGACACTTGCGGCACCATCTGC
CATGCTGCCGACAAGCTGCTGTGCTGAGCTGGAGCCACCAAAGTGTATGCTATCCTTACCCATGGGATCTTCTCTGGA
CCAGCTATTTCCAGAATAAATAATGCCGCCTTTGAGGCTGTTGTCGTCACAAACACAATTCGCAAGAGGACAAA
ATGAAACACTGCACCAAGATTCAGGTCATTGACATTTCCATGATCTTGGCCGAAGCAATCCGAAGGACACACAAT
GGGGAATCCGTGTCCTACCTGTTTCAGCCATGTCCCGCTATTAATCCAGAATGGGAAGTGTCCAGCAAGCCTACTC
TGACTTCTGACTTGTTTTGTTTTCTGGATTTTTAGCTGTAGGTATTCAGCAATGATAGGTTAATCACTGGCAAA
AGCATCAGATCTTTGTATATGCTAAGATTTATTGTTTTCCCTTCTAAAGCTCAAGATCAATTTCTTTCCAGTTTTT
GGGGAAATGGTGGTGGTTATTTGGTCTTTAAGTGAACCTGCTTAAATGAGAAACGTTTTTGTCATTTTGACTTTT
AACAGGTACAGGTGATCTCTTCTTTGTTCTTTTCAGTACTTTGAGGCGACAACCTTTCAAGTATATAATTTCAATTG
TGGAAGTCATAGTTTATATATTTTCGAGGTTGCCAAAGGTGACTTCACATTAAAGCCTTCTGTGTAAATATATACT
GATAATGCCTATGGACATTTGGGTAAAACCTGTATAGAATTAATTATCCTTTTACTTTGGAGTGAACCTTGGAA
AATTTATAATTATAATACCATGGATTTTGAATTTTCTTTTTTTTTTTTTTTTTTTGGATAACTCAGTTTCAGATA
AACCATCTTGGTTACTGTGCTTAATTTGGACCAAAATTTATTTAGCTTAATATGGACACTGACACATTTTGGGGG
GTATACATTAGACATATCAGAGCAGTGTATTTCTGGATCATTTTTTAAATGACCTCTTCTAAACATAACTGTCA
CTTACCTGAAATGCTGCATCCTAAAATTCCAAAATTATATTGAGCAATCGCCAAGGCCTAAAGCCAACCTGACTTA
AAGGTAATCATTTTCAGCTAAGATTAAATTTAAAGCCTAAGAATGTATAGAGCTAGTTTTAAATAATGATCTCAG
ATTTTTTAAAAGGATATAGGAACCTGCATTGTCTCTGAATTAAGAAGTGTATGGTTTCTATCATTATTTAGC
CCCACCTTTGTATTTTAAAATCCTTCAGAATACATTTATGAACCAATGCGACTGGACTTAGCCACACACAATGGA
AATTACAGACCTTGACTATTTGGTGTTCAGTTCACAAAGGTGATGAAGACTGTCTTGGGAGCAGCTTAATCCCA
AAATTTGTACATTTCTTGCTGCTCCTGGCGTGAAACTTAAGTGAGACCACCAATACATTGGTCTGTCCAATT
CTACTGAATGGGGGTGGACCTGGCATTATCTGGCCAAAAACAGGAGCCAGAGAAATATGAATATACCAAAGTTG
TTTGTGTTAGCCTCCAACCTTAAATTACATTAGTCAACTTATAGATACTCATATGATCACTTTTCTTTTATGATACT
ACATCAACTAGATTACAGGAGTATATCATTGTCAGTGCTTGATTGGTTTAAAATGTAAGATTTTAAAGATCCTCTA
ACACTGTACTAAAACATTTCAATAAAATCATTCTGACTGCGTTCAAAAAAAAAAAAAA

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FIGURE 1829

MPNIVLFSGSSHQDLSQRVADRLGLELGKVVTKKFSNQETSVEIGESVRGEDVYIIQSGCGEINDNLMELLIMIN
ACKIASSSRVTAVIPCFPYARQDKKDKSRAPISAKLVANMLSVAGADHIITMDLHASQIQGFFDIPVDNLYAEP
VLQWIRENIAEWKNCIIVSPDAGGAKRVTSIADRLNVEFALIHKKERKKANEVDRMVLVGDVKDRVAILVDDMADT
CGTICHAADKLLSAGATKVYAILTHGIFSGPAISRINNAAFEAVVVTNTIPQEDKMKHCTKIQVIDISMILAEAI
→IHNGESVSYLEFSHVPL

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FIGURE 1830

GC GCGGCCCAATGGAGTCGGGGCTGCTGCGGCCGGCGCCGGTGAGCGAGGTCATCGTCCTGCATTACAACCTACACC
GGCAAGCTCCGCGGTGCGCGCTACCAGCCGGGTGCCGGCCTGCGCGCCGACGCCGTGGTGTGCCTGGCGGTGTGC
GCCTTCATCGTGCTAGAGAATCTAGCCGTGTTGTTGGTGCTCGGACGCCACCCGCGCTTCCACGCTCCCATGTTC
CTGCTCCTGGGCAGCCTCACGTTGTGCGATCTGCTGGCAGGCGCCGCTACGCCGCCAACATCCTACTGTGCGGG
CCGCTCACGCTGAAACTGTCCCCGCGCTCTGGTTCGCACGGGAGGGAGGCGTCTTCGTGGCACTCACTGCGTCC
GTGCTGAGCCTCCTGGCCATCGCGCTGGAGCGCAGCCTACCATGGCGCGCAGGGGGCCCGCGCCCGTCTCCAGT
CGGGGGCGCACGCTGGCGATGGCAGCCGCGGCCCTGGGGCGTGTGCTGCTCCTCGGGCTCCTGCCAGCGCTGGGC
TGGAATTGCCTGGGTGCGCTGGACGCTTGCTCCACTGTCTTGCCGCTCTACGCCAAGGCCTACGTGCTCTTCTGC
GTGCTCGCCTTCGTGGGCATCCTGGCCGCGATCTGTGCACTCTACGCGCGCATCTACTGCCAGGTACGCGCCAAC
GCGCGGCGCCTGCCGGCACGGCCCGGGACTGCGGGGACCACCTCGACCCGGGCGCGTCGCAAGCCGCGCTCGCTG
GCCTTGCTGCGCACGCTCAGCGTGGTGTCTCTGGCCTTTGTGGCATGTTGGGGCCCCCTCTTCTGCTGCTGTTG
CTCGACGTGGCGTGCCCGGCGCGCACCTGTCTGTACTCCTGCAGGCCGATCCCTTCTTGGGACTGGCCATGGCC
AACTCACTTCTGAACCCCATCATCTACACGCTACCAACCGCGACCTGCGCCACGCGCTCCTGCGCCTGGTCTGC
TGCGGACGCCACTCCTGCGGCAGAGACCCGAGTGGCTCCCAGCAGTCGGCGAGCGCGGTGAGGCTTCCGGGGGC
CTGCGCCGCTGCGTGGCCCCGGGCCTTGATGGGAGCTTCAGCGGCTCGGAGCGCTCATGCCCCAGCGCGACGGG
CTGGACACCAGCGGTCCACAGGCAGCCCCGGTGACCCACAGCCGCCCGGACTCTGGTATCAGAACCGGCTGCA
GACTGAACCCCTCGGCCCACGACTGTCTTCCCAAGTTTTACAGACTTGTTCCTTTTACATAAAGGAATTTGTAGG
AAATGCAGCCAAAGGTGCAGTCGGAAAAGATGCAGGGGAAATGTATTTATGCAGCGACACCCACAATGTGAACA
AACAGACAAAAAATCTGTGCCCTCGTGGAATTGACGTTCTGCTTGGGAACACAGAAAAGAACTCGGTGATGAAAT
AATGGAGATGATTCCAGTGACAAACGACAGAGATGGTGATGGTGGTCAGGGAAGACCTCTCTGCAGAGGTAGTGA
CTTGTGATGTGAGCTGAGACCTCTGTCTTGGGAAGACCAAAAGAAAAGCATTTTACAGGATGAGGGAATGGCATGCG
CAAAGGCCCTGAGGCTGAAATGTGCCCATGTGTTCTAAGAAATGCAGCGATGCTGGTGTGCCTGGAGCAGGGACG
GAGGGGGAGAATGGGAGGAGACAAGGAGCTGAAGGAGTAGTTCCCGAAGGACCTTGTGGGTGATATAGAGGACTT
CGCTTTTGTCTCTGAGTGAGGTGGGAGCCATAGAAGCTTCTAAGCAGAAGAGGGACTTGCCCTAATTCAGGTGATC
ACAGGTGTCTTGTGGCCTCCATGGGAGGTTGAAAACACAGAAGGTGAAGGGGGGCTGCACTGAGCCACAGGAAC
AATGATGGAGATTCCAGCTAAGCCCAGACCCCGTGGATTCTAGATAGATTTTATAGAGGCAGCAGACAGAATTACTG
AGGAATTGAGTGTAAGAGTGGAATAAAGTTATCAAGGACAATGCCAAGGGTGGGGCACCCCAAATTTGACTTTG
GGAGACTCAGCCAAATCCTATCTGGTAATAAAATTTCTTTTTTATTTTTCTTTTCTTTCTTTCTTTCTTTCTTTCT
TTTTTTTTTTTTTTGAGTTGGGATCTTGTGCTCTGTCACCCAGGCTGGAGTGCAATGGGCACAATTATAGCTCACT
GCAGCCTGGAACCTCTGGGATCAAGCCTGGAGTTCCTGCTTCAGCCTCCCTAGTAGCTGGGACTACAGGCATGCA
CCACCATGCCAGTTAATAAAATTTCTTCAAATGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1831

MESGLLRPAPVSEVIVLHNYTGKLRGARYQPGAGLRADAVVCLAVCAFIVLENLAVLLVLGRHPRFHAPMFLLL
GSLTLDLLAGAAYAANILLSGPLTLKLSPALWFAREGGVFVALTASVLSLLAIALERSLTMARRGPAPVSSRGR
TLAMAAAAGVSLLLGLLPALGWNCLGRLDACSTVLPYAKAYVLCVLAFFVGILAAICALYARIYCQVRANARR
LPARPGTAGTTSTRARRKPRSLALLRTL SVVLLAFVACWGPFLLLLLDVACPARTCPVLLQADPFLGLAMANS
LNPIIYTLNRLRHALLRLVCCGRHSCGRDP SG SQSASAAEASGGLRRCLPPGLDGSFSGSERS SPQRDGLDT
SGSTGSPGAPTAARTLVSEPAAD

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FIGURE 1832

AAAGTGTAGTGAACCTTGGCTTCTCGCAGACTCGTAGAAAGTTAAAAAGGAAGCTACCATCTAAATGGTTTTATTATTA
TTATTCCAGATATTTTGGTATTGTTTTCTGTATCATGATAGTCTAAAAAACTAGTTTTACTTTTAATATTAATTG
GTATAATAATTAGTTGTTTTTTTTTCCCCAGTCACTGAAGATGTGTGCTTAGTTACATAAAAGTACATTAATATTTG
TGTTTATAAAATAATAACAATATTTATAGTATAATGTTTATATATGTGTTTAAATTGTGACAGCACTGCATCCACT
TGAGGCTCTTTTTTATAGCTACTAGGAGGTTTAGGCACTTGAGTTAAATTTTAAATGAACCACATATTTTCATT
TTGTTAATGTAGTTTCCCATTTTATGCAAATAAAATATTTAATGGGCTCTCCACTCCTGTGCTCTTGTCCCTTA
CCGCTACCACCCTAAGAGATTATCATTGTTAACATTTGAGGACATGGTGTGTTTGTAACTGTTGTTTTTCTTAA
TATGACAATGGCCCATATTTTAGCAGTAAACAAAAAGATACAGAAGATGAAAGCTTAGCCAAACACTGTAAATAG
AAATGGGAAGCTTTTTCATATCGGGGAACGGTGGCTTAATTGATTCTTGGGGAATGGGGGATCAACTAACCATAA
ACAATTTTATTTAGGATTTTTCATCATGAGGGTATTTGGAGAGAAATATATCATCCTATAATGTGCACAGTAAG
TTTTTCCTAATTTGTTGCTTTGAGGAAAGACACAAAGCAAATAAACAGCCTTTCATAGATAAATAAGTATACAG
AGAGTGAAAGATATGGGTACAAGTATATAGAGACCTATCAAAAATACATTGCTTGTGGTATTAATTCTCATGTGT
GATTTTAGCATATTAAAAGGCTGTTTTGTGTTTTTAGAACCATAAGAATAAATGGGGATGTTACCTTTTCAGTTTG
TTCCAAAGATTGCATGCATCATTACCAAAGCTTGAGTCTTTTTACTCCCCTGTCTTGTGAGATACCTACTACTT
GAGCATACTCTGGAATGAGAAAGTTTATCGATTAAACATGCTGCTTACGCAGATAGGATTAGCATTTCCCTTAATTT
AGTATACCACGTGTTGTATCAGGCATAAAAGCCAGCTTTTTTTAGTCATACCCCAATGTTTAAAATTGTTAAATG
CAGACTTCATGTTCTTTTGATCATTTAAATCATGACATGGATATTTTAAATTTTATATTCTAGTAATTATCAAT
TGCTCTGGTCTGGCTGCTTAGAGTATCAGTTTGCTCAAAATTGCTTGAATCATTAAAGCAAATACTAATTGTGAG
CATTGACCAGATCTTAAGTTAAAAAAGTTCGACGC

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FIGURE 1833

KCSELGFSQTRRKLKRKLPSKWFYYYSRYFGIVFCIMIV

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FIGURE 1834

CTAGCTTGTGACCAGCGGGATGCATTGTAAGAAAGTTGTCTGTGGTTAGGAGTGCAGTCTGGGTCCATGGAACAA
ATTTAAACTAATTGGCCCTCGCAATGATCAGTCCTAGGACCCTGGCCTTATTATTAGCATGGTGCTTTAACCAAT
TGTACATAATAATACCACTGATAGTCTACTAATGCATTTCTAGATCCCAGTTTTTCTTGAATGATTAGGAATGG
TGGGGAGAGGGGAGGGGAGATATTCTACATGATACTTCTCCAATCTTCTAAAGATTATAAGAAAAATAAAAAAT
TGAAGTCACTTGA

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FIGURE 1835

GACAGTGGAGGGCAGTGGAGAGGACCGCGCTGTCTGCTGTACCAAGAGCTGGAGACACCATCTCCCACCGAGA
GTCATGGCCCCATTGGCCCTGCACCTCCTCGTCCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGG
AAGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTG
ACCTGGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCC
CAAGGTGCTCAGCGATGCTGGACACAAGGTCACCATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTC
TACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCAGCTCTCACAGGATCCTC
AAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTCACCCAGTACGACAAGAACACGTGGACGGAGGTG
CAGGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCGAGAAGCTGGGCTACGCCCTTGCGTCCCCAGGAA
AGGGCCACTCGCCCGAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGC
AAAGGCGATGAAGAAGTTTGAAAGGCACACGCTCTTGAATATCTTCTCGGGAGGGGAACCTGAGCCGGCCG
GTGTCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGGGCC
AGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGCTGCCGCGCGCGCTGCTG
AGCTCGCTGTCCGGGCTTGTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTG
AGATCGAGACCTCTCCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGTGCTGACGGCGAGCGGA
CCGGCGGTGAAGCGCATCACCTTCTCGCCGCCGCTGCCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTAC
GTGCCGGCCACCAAGGTGTTCTTAAGCTTCCGCGAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCA
AACACCGATCGCCCGTGCAGCATGATTTTCTACCCGCCGCCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACG
TGGTCCGACGCGGCGGACAGCGTTCCGCCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCG
GCATTGCACGGGCTGTGCTGCGCCAGCTCTGGGACGGCACCGGCGTCTGTCAGCGTTGGGCGGAGGACCAGCAC
AGCCAGGGTGGCTTTGTGGTACAGCCGCCGGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGC
CGCATCTACTTTGCCGGCGAGCACACCGCCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGC
GCCGCCATCAAGATCAACAGCCGGAAGGGGCTGCATCGGACACGGCCAGCCCCGAGGGGACGCACTGACATG
GAGGGGACAGGGGATGTGCATGGGGTGGCCAGCAGCCCTCGCATGACCTGGCAAAGGAAGAAGGCAGCCACCCT
CCAGTCCAAGGCCAGTTATCTCTCCAAAACACGACCCACACGAGGACCTCGCATTAAGTATTTTCGGAAAAA

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FIGURE 1836

MAPLALHLLVLPILLSLVSQDWKAERSQDPFEKCMQDPDYEQLLKVVVTWGLNRTLKPQRVIVVGAGVAGLVAA
KVLSDAGHKVTILEADNRIGGRIFTYRDQNTGWIGELGAMRMPSSHRILHKLCQGLGLNLTKFTQYDKNTWTEVH
EVKLRNYVVEKVPEKLGVALRPQEKGHSPEDIYQMALNQALKDLKALGCRKAMKKFERHTLLEYLLGEGNLSRPA
VQLLGDMSEDGFFYLSFAEALRAHSCLSDRLQYSRIVGGWDLPRALLSSLSGLVLLNAPVVAMTQGPHDVHVQ
IETSPPARNLKVLKADVLLTASGPAVKRITFSPPLPRHMQEALRRLHYVPATKVFLSFRPFWREEHIEGGHSN
TDRPSRMIFYPPPREGALLASYTWSDAAAAFAGLSREEALRLALDDVAALHGPVVRQLWDGTGVVKRWAEDQHS
QGGFVVQPPALWQTEKDDWTVPYGRIYFAGEHTAYPHGWVETAVKSALRAAIKINSRKGPASDTASPEGHASDME
GQGHVHGVASSPSHDLAKEEGSHPPVQGQLSLQNTTHTRTSH

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FIGURE 1837

ATACACATGCAGAAGCTGTGACACGTGCGGAAGCTGTGGTAAGTGCATCCTCCTTCAGTCTCAGTTCTGAAAATA
GATCATCATGGTGGCACCAGAGTACACAGATGACTGGGCTCCTGGGCCTTTCTCCAGTAAGCCACAGAGGAG
TCAGCTGCAAATATTCTCTTCTGTTCTACAGACCTCTCTCCTCTTCTGCTCATGGGCCCCAACTCCTGGGAAACA
TCTCTCCGCTGCATGGCCCCGAACCCCACTGTCCAGCAGATAGAGCCAATCCAGTACCCACAGAGAGGATCTCAGC
CACCTGGGACTGTGGCAGCTACTGTCCTTCTGTGCTCCCGCTTTCTCCAGGGCTTCAGGGATGATGATGCAGGAC
TAAGAGCCTCTGGAAAGGACTCAGCCCCAACAGTGGTGTGAGGGATCCTAGGGGGTTCCGTGACTCTCCCCCTAA
ACATCTCAGTAGACACAGAGATTGAGAACGTCTGATTGGTCCCCAAAAATGCTCTTGCTTTCGCACGTCCCA
AAGAAAATGTAACCATTATGGTCAAAAGCTACCTGGGCGGACTAGACATCACCAAGTGGAGTTACTCCCTGTGCA
TCAGCAATCTGACTCTGAATGATGCAGGATCCTACAAAGCCAGATAAACCAAGGAATTTTGAAGTCACCACTG
AGGAGGAATTCACCCTGTTCTGCTATGCACCATTTATTGAAAAGTTGTCCGTCCACGTCTCGAGGGTGACCACC
GCACACTCCTGGAGGGCAGCGGCTGGAGTCCATCATCAGCACCTGGCTGAGCCACGTGTGAGCGTGCAGGGAGG
GCTAGGCCCTCGCCCCACCTGCCACTGGAGACCGCTCCGCCATCCCCACCTCACCGCCGCGCAANAGAGCTGGA
AGGGTCCTGCCGATGGGACCTGCCAGGCCAGTGCCACTGCCCCCGAGGGCTGCTAGACGTGGGGCGTTAGGC
GTGTCCCACCCACCCGCGCCTCCCATGGGCACGTCCGGAAACACCGGAGCCGCCAACTTGGAGACTTCCTGGTCT
GTGAAGAGCCGCTGACGCCCCGAGGAAACCGGGGCTGGGCCTTGTGTGCCAGTCGGGGTTTTGTGCTTGGTCTT
TCTCCGCTTGGATTTGCTTATTTATTGCATTGCTGGTAGAGACTCCCAAGCCTGTCCACCCTGCAAAGACTCCTC
GGGCAGCATGCGGGTCCCGCACACTGCACCCATTTCTGGATGTCCCTGCAGGCGCGGGAGGCCATCCGGGCCT
GCTGGCTGCGGCCCCCTCTCAGCCAGGCCTGGCTCAGCCCACTGCGTGGGAGGTCACCGGCCACTCCCCGAGGAG
CTGGGATCCCCGGGATGCAGGCCACAGTGCGGGGCTGCACCCATGATGCGGAGCTGGCCTCCAACCCTGCGGGC
CGCGCCAGGCACCAACTCAGTGTGTTGTCAGTGTGTTTTTCCAAGAAATGGTTCAAATTGCTGCTCAGATTTTT
AAATTTACTGTAGCTGCCAGTGTACACGTGTGGACCCCATTTTATTTTTACACCAATTTGGTGAAAATGCTGCTT
TCCTCAGCCTCCCCACAATTAACTGCACATGGTCTCTAA

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FIGURE 1838

THAEAVTRAEAVVSASSFSLSENRRSSWWHQRVTQMTGLLGLSPVSHRGVSCKYSLLFYRPLSSSCSWAQLLGNI
SPLHGPEPHCPADRANFVPQRGSQPPGTVAATVLLCSRFLQGFRDDDAGLRASGKDSAPTIVVSGILGGSVTLPLN
ISVDTEIENVIWIGPKNALAFARPKENVTIMVKSYLGRLDITKWSYSLCISNLTLDAGSYKAQINQRNFEVTTE
EEFTLFVYAPFIEKLSVHVIEGDHRTLLEGSGLESIISTLAEPVSVREG

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FIGURE 1839

TTTTTGAAGGCTTAAGCAATCGGGGACGAGCTTTATTGAGGCAATCACATCCACATTTTCAGTTGTTTGCAATGAT
TGGCAAACGGATGAGTTAAAAAGCCTTCTGCTTCCACACTGTTCCGTCTACATTCAGAAAGCAGTAAAAATATA
TTCGTGCAATGAACACTTTCCACCTTAAGCGTATCATGACAGTTCACAAATTTGCCAACAGACAATGCAAAACAA
TATTTACAAGATAGACCCTTTGTAAGTTCCAAATTTAGATACTTGTGGTGTAAATTCTAAAACTAACATCGCATGT
TTTTCCAGGT

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FIGURE 1840

GAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTT
CCAAGAAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATGTAAGAGCTTTAAATGCTACCAA
CTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAG
CATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGG
AATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATGTACTCGCTTTTGTGGGACTTCTTTT
TTCACGTGTGGTGATGACAAAACGTGTGAAGCAGTGGAAAATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCA
TTACATACAATATTAGGAAAGACAGTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTTGCACATGT
GGACAGCAAGTAGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTATA
AGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAATATAGTACTGTAC
GATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAACAAATACAATCTGTTGGAACCCTATG
GAAGCTTTCATTTTTACAGCAGCAAATGAAGATTATACTTATATACTTTTGATATGCGTGCCTGGACACTCCT
GTAATGGTCCATATGGATCATGTATCTGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCT
GCTAGTTTCGATAAATCTATTCTGAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGA
ATGCAACATGTTATCTGTGTAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATGAAATGAACATT
CGCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGAGAAAAAGCAGCCAAGGATTATAAC
CAGAAATTGAAGGAGAAATTTACGATTATCCTCATATAAAACGTATAGCTCGTCATCGACATCTACCAAAATCT
ATCTATAGCCAGATTGAGGAACAGCGCATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACAC
AGCAAGCCTGGATCTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAAATAATTGGTATTC
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCTGGGACTAGATT
AATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGCTACCCTGAAAAATGATCCTTAA
AGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCATTCTTCTTTCATTGTAGAATACAGTATTTGCAAC
TCATTTTTTCTTGTTTTTTATTACAGATATACTTACTTTCTCTTGTATCTATTATTGTAGACACTATACATTCAAA
TTGACATTTAAGACCAAACATCTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTC
CTGTGATTCCACATAACATTTAGAATAATGATGTCAATTTTTTACAACCTG

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FIGURE 1841

MKVKMLSRNPDNYVRETKLDLQRVPRNYDPALHPFEVPREYVRALNATKLERVFAKPFLASLDGHRDGVNCLAKH
PEKLATVLSGACDGEVRIWNLTQRNCIRTIQAHEGFVRGICTRFCGTSFFTVDGDDKTVKQWKMDGPGYGDEEPL
HTILGKTVYTGIDHHWKEAVFATCGQQVDIWDEQRTNPICSMWGFDSISSVKFNPIETFLLGSCASDRNIVLYD
MRQATPLKKVILDMRTNTICWNPMEAFIFTAANEDYNLYTFDMRALDTPVMVHMDHVS AVLDVDYSPTGKEFVSA
* * K S I R I F P V D K S R S R E V Y H T K R M Q H V I C V K W T S D S K Y I M C G S D E M N I R L W K A N A S E K L G V L T S R E K A A K D Y N Q
* * K F Q H Y P H I K R I A R H R H L P K S I Y S Q I Q E Q R I M K E A R R R K E V N R I K H S K P G S V P L V S E K K K H V V A V V K

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FIGURE 1843

MACLGFORHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLR
QADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPPYYLGIGNGTQIY
VIDPEPCPDSDFLWILAAVSSGLFFYSFLLTAVSLSKMLKKRSPLTTGVYVKMPPTPECEKQFQPYFIPIN

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FIGURE 1844A

GTGAAATTGAAGTTTGTGTATATGAAAGTTATCTTAGACATATTTTAAATTCTCCAGTTTCTGCAAAATAATTAA

AAATACAGTAACTGGTCTCCTAAATCCTGAATTTAATGTATTAAATACTTATGTTCTTTATATTGGTGCCTTTT
TAAAATGCATTGAGAGTGTGGTTAGCTGTTGCAGCTGTACAACACTTTTAATATGCATTTTTAAAAATCACTTA
AAATTGAGTACTATATAATTCATCTCTGCATTTTTAGTGCAAATCTTTAGAGCAATTTCTAATAGAGAAATTTTC
AGCTCAGCTGTTAAAAGGAAAAGGAACTTTGAAACTAGACTTTACTACCTTTTAGTTTTCATAGTATTTCTGAA
TATGATTACAAGATTATGCAGGTAATAATAGAGTGAAACTTTACCTGTGAATTGAATTATAATTTGTGTTTTTG
TTTTGTTTTTAAGGAAGAATAAGTTCTGTATCAAACAAGAATTTATTAGATAATTTTTTGGTCAATAAAATACAG
TATTCATTTGGATTTTCATCTCCAGACTAGTATTGTTCTAGTCTTGGAATCTGTATTTTCTAATCTGTTAGAAAA
TAGAGATTGAAAATTGATGGAATAATGTGAAAAAGCAGGTAATTAATCTCCTTGAACAAAGCAAACCTGAACAG
TCATATCACATTGCTATTCTCCAAAGCATAATCTCAAATGGTTTCATATCATGGTTGTGTATTACTTGCAATGGG
TGTGTTAGGATATGACAGCTTTTTAAAAAATGAGCTGCTGGTTATACAAAGCAAATGGCATATGACCAAGAAGC
TGTGATATGCTAGTGTCTTTTTATCATAGTGTATTACTAGGCCAAATAATGACACCTTGAATATTTTTACATT
TATGTCAGAAACCTTAACTTGGAATTTCCATAAGGTTTTATGTAATATTCTATTTCTAGCTTTTTAGTTTTAT
CTTGCTGTACTGTAAGTTTGAGGATATTTTACCTGCACCTTTAGGAATAAGTTCATAATTCTGTTTATGGGGC
TTTCTCCATAACACTGCATTTGTATATTTCTGTATAAAATATGTGTTGTGTATTAACTTTATCCCATACAG
AGAGTGGTACATGAATGACTAGTTTTCTAAGATGTCCTTTTTATTGTGAATAAAATATAAAAGTTAAAGGCCCTC
TGCTAAGTCACATAAAGTACAGCATATAAGTTTCATATAGGTACAAATAAATGAGTTTGCAGTGGATTGGGCCCTC
AAATTACCTCAAGTGACAGATAGTAAGAAAAGCTTCTTGAGCAGGTGGAGGTCACCTGAATCCCCTACTATGCACT
TATCAAGATTTTACTTACTTTAATTTACTGGAAATGATTTTTTAAAAAATGACTACACTGTAACAAGGGAAGGG
ATCTGGGTTTTTTTTGTTGTTTTATTCTTGTTTTTTTTAAGTAGTTCAAATCTGAAACTGTGATTTAAAAATTTT
TTACAGTCAAGCATTCTGATTTTGAACATAACTCCCTTCCCTTTCTGTGTAACAAAGGTCTCTCTGTTATCTCTT
AAATTTTGTACATCTCCCTCAGCCTCTTTCTTTGTCCGTCTCCCTTCTGTCAATTGTCTATGGATGTTTACCTCT
CTGTTCTCCTAAAAGTTTGAAGATTAGGTCAACTCTTATTTCTAGTTCATTGGTAATTTAATCCTAATTTTTTTT
TCGTGATTTTTGTTGGTTGTATAATCTGCTGACGTATTTTTATACTCAAGTGTAGTTTTCTATTA AAAAGAAAAG
TGGTTGGATTAAAAATAGTAAGCTATGTAACCTCATGTTACTTTCACTTTCAAATATTGGGTACCTAAAACATT
ACTTCAGAGATTATGTAATCCTATTATAGTATGTTTGCTTTCTTTATTGTTGGATTTTACATTCTGATTTGGCT
TTCTCCAAAAATGTATATCATGAAAGACTAGACAGTTATTTGCAAGTGTTTAGAAAGGTGTTAAAAATGTAAA
GCAAAGAGTCTTAACTTTCTCCTAATTGGGAGAAAAATGCTTTAACATTACTATAATAATATTCCAGGTTTGGAG
GGGGTCTCCAGGCCCATATTTGCTGTTAATAGTTGGACCTTTTAGACCATGTGTTATTTGCAATCCCAGAATGA
TTGCTTCTGCTATTAGTTAAAAAGATACTATTCTTTCTTTCTGTACAAGTGCAATACTCCCCTTGAAGTCTTAA
AACTATGGTGATTTTTTTTTCTTTCTGACCTATTCTTCTTTAGCTAATGACAAAAAGAACTCATAAAAGTC
ATAGTATGTTAAAGGACACAACAAGCAAAGAGAAAAACACTCCACAATCAAAGATTACAGAATGTGGAACCAC
TAGTCTGATCTCATGGTATCTTTATTTAAGCTAAATTTCCATGGAATTAGTAATCTTTTGCTTGAAAAATGTGT
CCTAAAGTTGAACTTTTTACAGATTGAATCTTCTTAGACCCTCGCCCAATGCTCTAAATTAAGAACCTAATACTT
AATATTTTTATTTTACTTCTCCCCTTTTAGAAATAAACTTTTAAATAAAAGCAAAGCACTTAGCTGAGTTTTAAA
CACTTACATATCACCTATTGGAGAAATTTTTTTTTAAAAATATTTGGAGCAGTCCTGTTTTCATACAAATTTAAG
TAAGAGGTATTTTTCTTATACATATTTATATGTAGTGTGCTAATTTTCTTTTTTATACCTGTGTCCCTGTAGTA
AAACTGCTGTAATATAAAATACATGTTTTGTTAAAAGATAACATTTCTTTGGCATTCTTTTAAAGGCAGTTACTG
CATTTCTGCATTTGTACAGTATGTGCTTGCCATTTTAGATATTCTTTCTTTAACAATACCAAAGGTAATTAGA
CTATTTTAAAGACTAATTGCTTGACAGTTTCTAGGGTATTTTGTGTTTTAGAAGCAAAAAAGAAAAAAATAG
GTCAAACAGTAAACCTCATTTTTTTTTCAAACATAAATTTGGGGAAATAAAAACTATTGTTANNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAAGTTAAATTCATACCTTGTATGTCAGGTTTGCTAAGTGAAT
GTAGTTTTTTTTAAGGCTCAAATACCATACCTCAGAAAATGAGGTTTACTATGGAAATACTGAAACAGTCTTTGC
AGCTGTGTGACAAGTCACTCTACTACATACTGATTTGGAGACCTCCGCTAAATAGTTTTATCACTGCAGACTAAA
ATGTGGGACTTGATCTTCTTTGTTTTAATGCACACACATACATGTTCTGTGCATGTATGTGTTACTGTGTAT
ATGTGTATGAGTGTGTATATGCATGTGTGAGTGTGTCTGTATGTGTGTACAATAAGAAGCTGCAGAACT
TTGTAATACTTTGTGAAAAGGATTATATTATAAAGGTTTGTACTGTCTGAGTGCACAGCTACTGGAATAAATTTA
GGGAATCTCAGGAACAAGCATATAATTTGTCCAAGATTTATTTCTTCTCAGAAGTGAAGTGCAGTTTTTAATTC

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FIGURE 1844B

TGTATATTATTTAATATTTTACCAATAAAATAAACTTCTGACATACAGAAGTCCTAGGTCTTTACTCTTAAGTTT
GACCTTCTACAGAGTCCTAGAGCATGGAGACAATGCAGCCAGTTCTTTGTTTATACTAACAAGGTTTGGTCCAGT
TCCTAATAAATTCTTAATTTGTATCTGAGATGTCAGCTTGGCCTTTACTGTCTATATTTGTAIGAACATTTTGAT
CAC

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FIGURE 1845

VKLKFVYMKVILDIFLILQFLQNN

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FIGURE 1846

GAGCTATAAGACAACAGGACTGAACAGGGAGCCAACCTGTTTCTTTGAACAGTAAATCAGGAACACCAATGGACCA
AAATGAACACAGTCACTGGGGACCACATGCAAAGGGCCAATGTGCCAGCAGATCTGAGCTGAGAATCATCCTGGT
GGGCAAAACAGGAACTGGCAAAAGTGCTGCAGGGAACAGCATCCTCAGGAAGCAAGCATTGGAATCGAAGCTGGG
TTCCCAGACCTTGACTAAGACTTGACAGCAAAAGTCAGGGAAGCTGGGGAAATAGAGAGATTGTCATTATTGACAC
1 AGATATGTTTTCTTGAAGGACCCTGTGAAGCTCTGTACAAAGAGGTGCAGAGGTGCTACTTGCTCTCTGC
2 AGGACCCCATGTGCTGCTCCTGGTGACTCAGCTGGGCCGCTATACCTCACAGGACCAGCAGGCTGCACAGAG
3 GAAGGAGATCTTTGGAGAGGATGCCATGGGACACACAATTGTCTCTTTACCCACAAGGAAGACCTCAATGG
TGGCTCCCTGATGGATTACATGCACGACTCAGATAACAAAGCCCTAAGCAAGCTGGTGGCAGCATGTGGTGGGCG
4 TCTGTGCCCTTAATAACCGTGCTGAAGGGAGCAATCAGGATGACCAAGTGAAGGAATAATGGACTGTATTGA
5 ATCTGTTGATGGAGAAAAATGGTGATCACTATACCAATGGGTGTACAGCCTAATACAGAGGTCTAAATGTGG
6 TGTGGGATCAGATGAAAGAGTAAAGGAATTCAAACAGAGCCTTATAAAGTACATGGAAACTCAAAGAAGTTA
7 AGCCTTGGCTGAAGCAAACCTGCCTAAAAGGAGCCTTAATCAAAACACAACCTGTGTGTTTTATTTTGTATTCA
8 TGTGTTCTCAGATTGATAATTCTGTGGCTTTGCATACTGCACAGCATGTGCAATTTGTTTTGTTGCTTACTCTT
TAGTATGTGCAATTTATTCTGCAGTTTGCTGTTTATTATACCCAAAAAGTTAATGATATTTTTGAGAACAGTTAT
TAGACTAGAACGCAAGACTCCTAGGTTATAGTTACAGATCCCAGTTATTATTTACTCACTATCATTTAGTGGGTG
AATCACAGTAATTTCCCTGTAAAATGTGGTACCTGAAGTCATATTTGAGATTCTATGAAATGTTTAAATCTTAAC
ATCACTCCAATTATTAATGAACCAAATCATACGATAAGTTACTGTTTGCATTGAAATATAATATCAAAGCCTTTT
GAAATCTGTAAACATAAAATTCCTCTCATTTTCAAATAAAAAAAAAAAAAAAAAA

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FIGURE 1847

SYKTTGLNREPTVSLNSKSGTPMDQNEHSHWGP HAKGQCASRSELRIILVGKTGTGKSAAGNSILRKQAFESKLG
SQTILTKTCSKSQGSWGNREIVIIDTPDMFSWKDHCEALYKEVQRCYLLSAPGPHVLLLVTQLGRYTSQDQQAQR
VKEIFGEDAMGHTIVLFTHKEDLNGGSLMDYMHDS DNKALSKLVAACGGRICAFNNRAEGSNQDDQVKELMDCIE
DLLMEKNGDHYTNGLYSLIQRSKCGPVGSDERVKEFKQSLIKYMETQRSYTA LAEANCLKGALIKTQLCVLFCIQ
LFLRLIILWLCILHSMCNLFCCLLF SMCNLFCSLLFIIPKKLMIFLRTVIRLERKTPRL

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FIGURE 1848A

CCCAATGTTTTCACTTAATAACTATGACAACCTTAAAGAATGTCACTTAAGTTAGAAAATAAGCAGGCTAAGAAG
TGATTCTAATTAGGACCCCCACTCAGTTTGCTAGTCATGCCTGCCTGACAGAACATAAGCTTTTTGTAAAGTATTT
AGACTGATAACACATGCAGTATGAAAACATTATAGACTGCAGTTAGAAGACTAATTTTTTAAAGCACTCAAAAC
ATAGAACTAAGATTTAGAAATATATGTCCATTTATAATGAAATAATTTATGTTTCATAATGTGAACATGTAAGATAA
GTAAATAAAGCATTACTTGTTTTATAATATCAGGAAGAGAGAAGGAAACATTAGTTTATAACAATGTGCTATTTA
ATATCTGTATTTTGAACATTTAAAATACTCTGATGGTAAGGTTGCCAAAGTAATTTTGAATTCATAAAAATTGTT
TATACCACAATAATGTGGGATATGTTTACAGGCTCTTTATTTTGTGGTAGTTACTTTATAGTTCAGATGAATTT
GCATTTTCAGTCACTTATAGTAAATAAAGTATATTAAATATTTGTTGGAATAAAAATCTCAATGTAATAGGACATA
GATAAATTATGCAACAGCCTGCTTTGATGAAAGCTGGTGCATTATGTGAGCTGCCACAGTTAATACTTTGTATTA
ACATTGCTTACTTCCCCCATTTGCTTCACCTATCTGACTACAATTGCTGGAATCATTCTTTTTGTGGTGCTTCCT
CCAAGTGAATAACTATGTTATTA AACCTACTGGATTAATTTATCAAATATCAGACTTACTGATCTCTTGGA
GAGATTTATTGGTGTCTCAGTGTGATCACAATACAAGTTGTAGCAACCATTTTATAAACTCTTAGAGAATTATG
TAGATAAAATGGAAATTACATAATCCTAAAACATTTTTGAGGGCTAATTGATAATAATTCAGCAATTTTATTAA
GAACCCAGTAAATTAATCCCTAATTTGTACGTTTTTGTTCAACTTACCGTGTCTGCAACCATTATATAGACTTC
ATTGATACTCAGCAATTACTACAGTGTGTCTTACAATGTTATAAAAAACAAACAGCAATCTCTGTTTCTGCCAGA
AGTTAGATATTTTTTTATAGTCCTGATGAATTTGTTGTGAGTAGACACCACATAGTTATTTCTGTTTGCATATAA
ATTTGCTGCTATTTATTTGTATGTTTTTCTACTGTAGTATGCTATTGATTTCTGAAGTTATAATCATAATTTTA
TTTTAGTAATCCAAGCTAAATGGGCAACCAGAAGTAATATCTGCTAGGGTGCAATCCATCAGCATTGGTTTCAGTG
CATATACATAAGTAAACCAGTTTAAAAAAATTTTACTAAGCAAAAGGTAGTAGCAATATTGCTAGTTAAAGATTA
CCATTTTAGGGGAAAGTTCAAAGGTTTAACTTCCTGAAACCTTTTAACTTTTCAGTGCAAGAATGAAAATGTTT
GAAAGCCTTGTTAAGCTCATAAAAGTTTCATTTAAACACTGTAGAGTTTCTACCTTTGTTGTGTAAAGGATATA
GAAATATTTTTCTATGGACAGAAGGTTGAAACTGTTAACTTCTTTAATTTTCATTGTTTAAAGGAGATAAAATGT
TATTTGTGTGTCTTTTCATGCTGTAAAGAAAATGAATGTATCTTTCAAATGTCATTAGAATTATGGCTTGATTCTA
AGGATACTCTATTTGTTTTAAAGTCTACACGGGATTGAAAAGAAAGGGAAGAGTATTACACTTCATTGTACAAA
TGTAATTTTAGAAGAAAACTAATTTTCATTATAAACAAGAGCAATCATTGAAGCATTTTCAGATATAATGTACA
TTCTTTTTTCATTTTGCTTTGCCTCTAGAATAGAACTTTTCAGAAAATTTGCACATACTGTTTGTAAAGTATAAAA
TAATTGAATTTCTAGACTTTTGGAGTGTGGAAGGGTGTGTTGTGTGTGAAGGTAATAAATGTGTTGCTGCATGTGTT
TACCATAGAGAACGTTGCCAGGCTTTGTCAAATGAGGACATTGTTGTGAGGGTGTGACTTTTGTGAAGCCAGAAA
ACTGTGCCTAAGATTCATTACAGTGAGTATGTGCAGAGGCCCTGACCCAGTAAATGCTTTTTGCCTTTTTATTC
CCAATGTCTTGACAGTTGAGACAACCTGGCCCACTCTGAATTGTAGCAGTGATGTCTTATATGCTTACGAGTT
TATATTAATTCAGCTGAACAAGAACTACATCTTAAACCACCTTTGTAGGTATGATTAATACGTGCAACAGCTGCT
TTAAAAGGTGGTATTTATTATTCATCACTCATGAACTTGACTCAGTGAGGACTTCATTATTTTTATTCTCTTT
CCACGTCTCCAACCTTTTTAAAAATCACTAATTTAACTCTTTGTTAAGTACTCAAGTACAAAGTGATCTCTCTTT
CATGAACCTTGCTATAACTGTTGAAAGGATTGGTGTGAGGCTCTCTCAACCCTGGGAGTTTCCAAAATTTAGCAA
ATATTACTTGTGATAAGCTTAAATGCCACATCGCTAAGTACAATTATTACCAGGAATCCGTCAAGGGGGAGATAG
CCCCGCTCACACCCTTAGACCCAAACAGGTGCTGGTTTCATGCTTTCTCCACAAATTGGCAGTTGGGTACTTCCCC
ACTGTCAATCACAGTTGAGCTCATTTTAAATATATTCAAAGAAGCTTTTTAGTTTCTACTCTGAATTGTAGTGT
TCAAGTTATTTGCCTTCTGCGGTAAAGAAAATTTTAAACCAAGTCTGGGATTCTCTGGCACCTGTCTTTCCCATC
TTTTCAATGAGTTGGCAAGATTAGGTCAAATTTCAATGCTAAATTTGATTTTTTGAATTTTAAATAGTTGCACTTT
ATTTCAATGCTGACCACCAACTTAATTTATACATTTTTAAATAAAATTATCCTAGAAAGTGTGTAAACGTGGGAAA
ATTTTAATTAGTGTGAGGTCATTAGATTGGACCCAGGTTTAAATATAATGATCTCTTCACAGCTTATTTGATG
TTTAAGAGCAACTTGTGTGATCTTAGCTTTGCAGGTTTTCTGTAATTTATGTAGCACATAAAGGATAACCAGTT
GACTGTGTTACTGACTCTGAGTTCTCACAGCTAGTTTCATCTAAGCTTGGTTTATTATCATTTCTGCTTTGGAT
TTTTTTGTGCATCACATGAATACTTAGAAATCCATTTGTTTTCAGTGTAGTACCTAGGGTGAAGTAGATGCTGCA
CAAGTAAGTTTAAAGGGAATAAAAGTCCCGACACTTTATATACATGTTGAGGGGCACGATTTAAGAGACTGAAACA
GTTTACATTAACTGTTTTTATTTCTGCCAGTAGACTCTATCTGCTTAAAAAAATAAAAATTGTTCAACCCAGT
GTTCTCCAGCATCAGGACATTACAGTTGTAATCTATGTTGTAATCTTTTCAAATAAGAAAAGCTACTCCTTATTC
TCTACAGTGTAGGCTTAATTTTAGAACCATAATTTACTATATCTGCATTATTGATATTTTAAAGTAGTAGTTTT

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FIGURE 1848B

AAAAATAATTATTTCTATGTGGAGGGTGTTTTAATTTGGGATTTTTTTTTTCTTGTAACAGGTGCTATTTGTAAA
TATGAAGGGGAAAAGTCACTTAGTTAAAAGTCTAGCTTATGTCATAATTAAGATACAATTATTCATTTTCATGTTT
GATTCTATTAAACTAGTGGCAAAACAGAATTGGTCCCTTAGTTTTTTAGATTACCTTTCCCCCTATATCACAAAA
ATATCTCTTTCCATATGATCTCATAATTGAGGCAAAGAAGCTAAGGGTTTATTTAAAATGTGTATAAGCTTGAAT
TTGGTCAACACTGCATAATTTGAAATCACTCTGCATTTGTCAGCTTACTGTATGCTTGAAAGGCCTTGTTG
TGTTTGTCTTAATTTTAGTGAAAAAATTAGAATTTCTGCCATTTCATGTACAAAAAATTACAACACTACAGCAAACA
AGATAAAAATGCTGGTTTGCATTAATACTGTTTTAGTCTTAAGAGCAATTTATATTATGTGAAATGCTGTTACAC
ATATTTTGTGGCCATATTTTCATTTTGAGAAACAGTTGTTTCAGGTACAAACATGAAAAACAACCTCTAGCTATGAC
TCTTAATGTTCATTGCAAAATAAAGATGTGCTTTAGTAATCT

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FIGURE 1849

MFNCKIKMCFSN

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FIGURE 1850

GGCACGAGGGGCAAGCGGAACGCGGCAGCGGGGCTGGGCCTGTGCGGCGGCCGCGGAGCGCTTTGGAAGGCGCA
CGGGGCGAAGATGGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTTCGTGGCGGTGACGGGCGCCGAGGAGGACCG
GGCCCGCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGACAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA
TGAAGACATTGTGACCATTTCGCAGGCAACCCCCAGTTCAGTGTCCAGAGGCACAGCCCCAGTGATAATAGAGT
GACATCCTTCAGAGACCTCATTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGG
GGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCAGGAAGAAAAGTCCCAACGAGCTGGTGGATGATCT
CTTTAAAGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACC
GAGACCATTTCAGGAGGTGGCTACCGCCTTGGGGCAGCACCAGAGGAAGAGTCTGCCTATGTGGCAGGAGAAAA
GAGGCAGCATTCCAGCCAAGATGTTTCATGTAGTATTGAAACTCTGGAAGAGTGGATTACGCCCTGGATAATGGAGA
ACTCAGAAGCTACCAAGACCCATCCAATGCCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCT
TCGGAGGCTAGCTCACGGTGGACAGGTGAACTTGGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAA
AGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAACTGGGCAGCACTGCCCCCAGGTGTTGAGTACCAGCTC
TCCAGCCCCAACAGGCAGAAAATGAAGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAA
CATCCAAATTCGGCTTGCAGACGGCGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCG
ACTCTTCATCGTGGATGCCCCGGCCAGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAGA
GCTGGCTGATGAGAGCCAGACCCTGAAGGAAGCCAACCTGCTCAATGCTGTCATCGTGCAGCGGTAAACATAACC
GCCCAGCCAGCTGCCTGGCCTCCCTCCTGTGTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCCCTCCT
GCCCCCTTGTGCACACCCAGCAGTCCAGTGCAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGGTTGGACG
TTTGTTTTCTCCTTAGTTGCATTTCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAAAATAAAAA
CAACCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1851

MAEERQDALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEEEEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLFGAKEHGAVAVERTKSPGETSKPRPF
AGGGYRLGAAPEEESAYVAGERRRHSGQDVHVVLKLWKTGFSLDNGDLRSYQDPSNAQFLESIRRGVPAELRRL
AHGGQVNLDMEDHRDEDFVKPKGAFKAFTGEGQKLGSTAPQVLNTSSPAQQAENEAKASSSILINEAEPTTNIQI
• ACGGRLVQKFNHSHRISDIRLFIVDARPAMAATSFVLMTTFPNKELADENQTLKEANLLNAVIVQRLT

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FIGURE 1852

GGCACGAGGGCTGGGCGACGGCGCCGCCATGTACCTGGGCGAGGTGTGCACGGCGAACGGCGAGCGCTGGGAGCT
GCAGCTCAAGGGCGCCGGGCCCCACGCCCTTCTCCAGACAGGCCGACGGTCGCAAGGTCCTACGGTCAAGCATCCG
GGAGTTTCTATGCAGCGAAGCCATGTTCCACCTGGGAGTCCCCACCACACGGGCGGGCGCTGCGTCACGTCCGA
GTCCACGGTGGTGC GCGACGTGTTCTATGATGGTAATCCCAAATATGAACAATGCACGGTTGTGTTGCGTGTAGC
TTCCACTTTCATAAGGTTTGGATCCTTTGAGATTTTTAAGTCTGCAGATGAGCACACAGGGCGTGCAGGCCCCAG
CGTGGGGAGGAACGACATTCGAGTGCAGCTGCTCGACTATGTCATCAGCTCCTTTTACCCCGAGATCCAGGCTGC
TCATGCCAGCGACAGCGTGCAGAGAAATGCTGCCTTCTTCCGGGAGGTGACGCGGCGCACGGCGCGGATGGTGGC
CGAGTGGCAGTGTGTGGGCTTCTGCCACGGCGTGCTCAACACCGACAACATGAGCATCCTGGGGCTCACCATCGA
CTACGGGCCCCTTGGCTTCTTGACAGGTACGACCCCGACCACGTGTGCAATGCCTCCGACAACACCGGCCGCTA
CGCGTACAGCAAGCAGCCCGAGGTGTGCAGGTGGAACCTGCGGAAGCTGGCCGAGGCCCTGCAGCCGGAAGTGC
CCTGGAGCTGGGGGAGGCCATCCTGGCCGAGGAGTTTGACGCGGAGTTCCAAAGGCACTACCTGCAGAAGATGCG
CAGGAAGCTGGGCCTCGTGCAGGTGGAGCTGGAGGAAGACGGGGCGCTGGTGTCCAAGCTCCTGGAGACCATGCA
TCTGACCGGTGCCGACTTCACAAACACCTTCTACTTGCTGAGCTCCTTCCAGTGAGCTAGAGTCGCCAGGCCT
GGCGGAATTCCTGGCCAGGCTGATGGAGCAGTGTGCCTCCCTGGAGGAGCTGAGGCTGGCCTTCCGGCCCCAGAT
GGATCCCCGGCAGCTATCCATGATGCTGATGCTGGCGCAGTCAAACCCGCAGCTGTTTCGCGCTTATGGGCACCCG
GGCAGGCATCGCCAGGGAGCTGGAGCGTGTGGAGCAGCAGTCTCGGCTGGAGCAGCTGAGTGCGGCAGAGCTGCA
GAGCAGGAACCAGGGCCACTGGGCTGACTGGCTACAGGCGTACAGAGCCCGGCTGGACAAGGACCTGGAAGGCGC
TGGGGACGCTGCCGCCTGGCAGGCTGAGCACGTGCGCGTGATGCACGCCAACAACCCGAAGTACGTGCTGAGGAA
CTACATCGCGCAGAATGCCATCGAGGCTGCCGAGCGCGGGGACTTCTCAGAGGTGCGGCGGGTGCTGAACTACT
GGAGACCCCTTACCCTGCGAGGCGGGGGCCGCCACAGACGCCGAGGCCACGGAAGCCGACGGGGCGGACGGCAG
GCAGCGCTCCTACAGCAGTAAGCCCCCGCTCTGGGCGAGCAGAACTGTGCGTGACATGATCTTCGTAACGGCCTCG
GCACGCTCCACACCCCTGGAGTCTCCCGAGGCCCCCATGTGCTGCTGAGTGGCCAAGATGATGCCAGGCTGCCCT
ATACACTGGGGGATTCTGCCCTGGCCCATGCACACCCGTCTTCCATGATGGCAGAGACATCCAGTCAGGACCTG
ACCCGTCTCTGTCTGAGGCCGGCTCAGCAGTGCAGCCTGGTCCCTGGGGGCTGGACCCAGGCTCCTAAATAAACC
AGCAACTCCCTCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1853A

TCGTGTTTCGGTGAGTGTGGCGGAGATGGAGAGCCGGGATCCCGCCAGCCGATGTCGCCTGGAGAAGCGACGCA
GAGTGGCGCCCCGGCCTGCCGACCGCTATGGCCTATTGAAGCACAGTCGCGAGTTCTTGGACTTCTTCTGGGACAT
TGCGAAGCCTGAGCAGGAGACGCGACTTGGCGCCACGGAGAAGCTGCTGGAGTATCTGCGTGGCAGGCCGAAGGG
GTCCGAGATGAAATATGCCCTGAAGCGTCTAATCACGGGACTCGGGGTCGGGCGAGAAACAGCCCGGCCCTGCTA
CAGTTTGGCCCTGGCACAGCTGTTACAGTCTTTTGAAGACCTCCCCCTTGTGCAGCATCCTGCAGCAGATACAAGA
AAAATATGACCTGCATCAGGTGAAGAAGGCAATGCTGAGACCTGCTCTCTTTGCAAACCTGTTTGGAGTGCTCGC
CCTCTTTCAGTCAGGTCGGCTGGTGAAGGACCAGGAGGCACTGATGAAGTCGGTGAAGCTGCTGCAGGCCCTGGC
CCAGTACCAAAACCACTTGCAAGGAGCAGCCCCGGAAGGCCCTGGTGGACATCCTCTCCGAGGTCTCGAAGGCCAC
ATTGCAGGAGATCCTGCCGGAGGTCTCAAAGCCGACTTGAATATAATACTCAGCTCCCTGAACAGCTAGAGCT
CTTCTCTGCGCCAGCAGAAGGTGCCCTCCAAGCTCAAGAAGCTGGTGGGATCCGTGAACCTATTCTCAGATGA
GAATGTCCCCAGGCTGGTGAATGTGCTGAAGATGGCCGCTCTCTGTGAAGAAGGACCGCAAGCTGCCCCCCAT
TGCTCTGGACCTGCTCCGCTGGCGCTCAAGGAAGACAAGTCCCACGGTCTGGAAGGAGGTGGTGGAAACAAGG
GCTGCTGAAGATGCAGTTCTGGCCAGCCAGCTACCTGTGTTCCACCTGCTGGGCGCGGCCCTGCCCTGCTGAC
CAAGGAGCAGCTGCACCTGGTGTATGCAGGGAGACGTGATCCGCCATTACGGGGAGCACGTGTGCACTGCTAAGCT
CCCAAAGCAGTTCAAGTTTGCCCCAGAGATGGACGATTACGTGGGCACCTTCCTAGAGGGGTGCCAGGATGACCC
TGAGCGGCAGCTGGCCGTGCTAGTGGCCTTCTCATCTGTACCAACCAAGGCCTCCCTGTACGCCTACTTCTG
GCGGGTCTGTGCGGTTCTGAGCCCTCCGGCCCTGCAGGGCTATGTGGCCTGGCTGCGGGCCATGTTTCTCCAGCC
AGACCTGGACTCCTTGGTTGACTTCAGCACCAACAACCAGAAGAAAGCCAGGATTTCATCGCTCCACATGCCTGA
GCGAGCTGTGTTCCGGCTGAGGAAATGGATCATCTTTCGATTGGTGAGCATTGTGGACAGCCTGCACCTGGAGAT
GGAGGAGGCCTTGACTGAGCAGGTGGCCAGGTTTTGTTTGTTCCTACTCGTTCTTTGTACAAAGAAGCCACATC
CCAGATCCCTGAGACAAAGCACCCGTTCTCCTTCCCTTTGGAAAACAGGCCCGAGAGGCTGTGAGCAGTGCCTT
CTTCAGTCTGTTGAGACCCCTCAGCACGCAGTTCAAGCAGGCACCGGGCCAGACCCAGGGTGGGCAGCCCTGGAC
CTACCACCTGGTGCAATTGCGCAGACCTCCTGTTGAATCACAGCCACAACGTGACCACCGTGACACCCCTTCACTGC
GCAGCAGCACCAGGCCTGGGACCGGATGCTGCAGACTCTGAAGGAGCTGGAGGCCCACTCCGCAGAGGCCAGGGC
TGCTGCCTTCCAGCACCTTCTGCTCTTCGTGGGCATCCACCTCCTCAAGTCCCTGCGAGAGCTGTGACCTGCT
GGGTGACATCCAGACCTGCATCAGGAAAAGTCTGGGAGAGAAGCCCCGCGGAGCCGCACCAAGACCATCGACCC
CCAGGAACCCCCGTGGGTAGAGGTGCTGGTGGAGATCTTGCTGGCCCTGTTGGCCCCAGCCAGCCACCTCATGCG
CCAGGTGGCCCCGAGCGTGTTTGGCCACATCTGCTCCCACCTGACCCCGCGTGCCCTGCAGCTAATTCTGGATGT
GCTGAACCCCGAGACCAGTGAGGATGAGAATGACCGTGTGGTGGTGACGGACGATTCTGATGAGCGGCGGCTGAA
GGGTGCAGAGGACAAGAGCGAGGAAGGTGAGGACAACAGAAGCTCAGAGAGTGAAGAGGAGAGCGAGGGGGAGGA
GAGCGAGGAGGAGGAGCGCGACGGGGACGTGGATCAGGGCTTCCGGGAACAGCTGATGACCGTGCTGCAGGCTGG
GAAGGCGCTGGGTGGAGAGGACAGTGAGAACGAGGAGGAGCTGGGGGATGAGGCCATGATGGCCCTGGACCAGAG
CCTCGCCAGCCTCTTGGCCGAGCAGAAGCTGCGTATCCAGGCCCGCGAGACGAGAAGAACAAGCTGCAGAAGGA
GAAGGCTCTGCGGCGCGACTTCCAGATCCGGGTGCTGGACCTGGTGGAGGTGCTAGTGACCAAGCAGCCCGAGAA
TGCCCTGGTCTTGAGCTGCTGGAGCCGCTGCTGAGCATCATCCGGCGCAGCCTGCGCAGCAGCAGCTCCAACA
GGAGCAGGACCTTCTGCACAAGACGGCGCGCATCTTCACGCATCACCTGTGCCGTGCCCGCGCTACTGCCACGA
CTTGGGTGAGCGCGCAGGGGCCCTGCACGCCAGGTGGAGCGGTTGGTGCAGCAGGCTGGCCGCCAGCCGACTC
CCCCACCGCCCTCTACCACTTCAACGCCTCTCTCTACCTGCTCCGGGTCTGAAGGGCAACACTGCTGAGGGCTG
CGTGATGAGACACAGGAGAAGCAGAAAGCTGGCACTGACCCAGCCACATGCCACGGGCCCGCAGGCTGCCAG
CTGCTTGGACTTGAACCTGGTGACCGGGGTGACTCGACAGCACTGAGCTCCTTCCCTGACCAAGCGCAACAGCCC
CCTCACAGTTCCCATGTTCTCAGCCTCTTCTCCCGCACCCGGTGCTCTGTGAGAGCTGCTCCCCATCCTGGT
CCAGCATATCACGGGCCCGGTGCGGCCCGTCATCAGGCCTGCCTGCTGCTCCAGAAGACCCTGTCCATGCGGGA
GGTGAGGTCTGTCTTTGAGGACCCCGAGTGGAAGCAGCTGATGGGCCAGGTCTAGCAAAGGTACCGAGAAGCTT
GCGCGTGCTGGGGGAGGCGCAGACCAAGGCGCAGCATCAGCAGGCACTGTCTCCCTGGAGCTGCTCAACGTTCT
CTTCAGGACCTGCAAACATGAGAAGCTGACCTTGGACCTGACGGTGCTCCTGGGTGTGCTGCAGGGGCAACAGCA
GAGCTACAGCAGGGGGCACACTCCACCGGCTCCAGCCGCTGCACGACCTCTACTGGCAGGCCATGAAAACCTT
GGGAGTCCAGCGCCCCAAGTTGGAGAAGAAGGATGCCAAGGAGATCCCCAGTGCCACCCAGAGCCCCATCAGTAA
GAAGCGGAAGAAAAGGGATTCTTGCCAGAGACGAAGAAGCGCAAGAAACGCAAGTCAGAGGATGGCACGCCAGC

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FIGURE 1853B

GGAGGATGGCACACCTGCAGCCACCGGCGGGAGCCAGCCCCCAGCATGGGCAGGAAGAAGAGGAACAGGACAAA
GGCTAAGGTCCCAGCCCAGGCAAACGGGACGCCAACCACCAAGAGTCCAGCCCCTGGCGCCCCACCCGGAGCCC
CAGCACCCCTGCCAAATCCCCAAAACCTGCAGAAGAAAAACCAGAAGCCGTCCCAGGTGAATGGAGCTCCCGGGTC
CCCCACGGAACCTGCAGGCCAAAAGCAGCATCAGAAGGCTCTTCCAAAAAGGGGGTCTTGGGCAAATCACCCT
GTCCGCGCTGGCACGGAAAAAGGCAAGGCTGTCTTTGGTCATCAGGAGTCCCAGCCTGCTTCAGAGTGGGGCCAA
GAAGAAAGCACAGGTGAGGAAGGCAGGGAAGCCCTTGAGCACAGGTACGGGCCCCCCTCAGCCCCTGCCTCCATCT
GCCTGAGACGCCTATTTTTTTTTTTTTTAAAACCATGATTTTAATACGCAAGCTGTTTCTAAGGCGCTGCCACTGG
GGAGGGTGGCTGTTGCCGCTGCCCGGGCATCCTGCTCTGGCAAGCACAGCCTGAGCCATTCTCGGGGGTCCC
AGGGTGCAGAGACCTCCCCACCCCAAGTTCTGGGCTGGGATCCTGGCTCCAGGGCCATGTCCAGGGCTCTGGTGT
TTGCCTGGGTTGGTGCATGTTGATGTGCTGGCTGCAGGCAGGTGTGACCATCTCTCGTGCCTGCCACCTCTTTGC
CCCCAGGCTTTTTTGTGTGAGGGAGCCACCAGGGGGTGATTTAAATAGGTTTATTTCTTCATTTACAAGAGGAA
TATATTTGGCTTCTCTCTTAAGACTCTGAGATTACAATCAGCAGCTCTAAAAAATAAAGGAGCAGTTTGGCTTC
CGGAAGGAAGAGGAGGCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1854

MESRDPAQPMSPGEATQSGARPADRYGLLKHSREFLDFFWDIAKPEQETRLAATEKLELYLRGRPKGSEMKYALK
RLITGLGVGRE TARPCYSLALAQLLQSFEDLPLCSILQQIQEKYDLHQVKKAMLRPALFANLFGVLALFQSGRLV
KDQEALMKSVKLLQALAQYQNHLEQPRKALVDILSEVSKATLQEILPEVLKADLNIILSSPEQLELFLLAQQKV
PSKLKKLVGSVNLFSDENVPRLVNVLKMAASSVKKDRKLPALDILLRLALKEDKFPRFWKEVVEQGLLKMQFWP
ASYLCFHLLGAALPLLTKEQLHLVMQGDVIRHYGEHVCTAKLPKQKFAPEMDDYVGTFLEGCDPPERQLAVLV
AFSSVTNQGLPVTPTFWRVVRFLSPPALQGYVAWL RAMFLQPDLDLSDVDFSTNNQKKAQDSSLHMPERAVFRLRK
WIIFRLVSIVDSLHLEMEEALTEQVARFCLFHSFFVTKKPTSQIPETKHFFSFPLENQAREAVSSAFFSLLQTLS
TQFKQAPGQTQGGQPWTYHLVQFADLLLNHSHNVTITVPTFTAQQHQAWDRMLQTLKELEAHSAEAAAAFQHLLL
FVGIHLLKSPAESC DLLGDIQTCIRKSLGEKPRRSRTKTIDPQEPPWVEVLVEILLALLAQPSHLMRQVARSVFG
HICSHLTPRALQLILDVLPETSEDENDRVVVTDDSDERRLKGAEDKSEEGEDNRSSESEEESEGESEEEEEERDG
DVDQGFREQLMTVLQAGKALGGEDSENEEELGDEAMMALDQSLASLFAEQKLRIQARRDEKNKLQKEKALRRDFQ
IRVLDLVEVLVTKQOPENALVLELLEPLLSIIRSLRSSSSKQEODLLHKTARIFTTHLCRARRYCHDLGERAGAL
HAQVERLVQQAGRQPDSP TALYHFNASLYLLRVLKGNTAEGCVHETQEKQKAGTDP SHMPTGPPQAASCLDLNLVT
RVYSTALSSFLT KRNSPLTVPMFLSLFSRHPVLCQSLLPILVQHITGPVVRPRHQACLLLQKTL SMREVRSCFEDP
EWKQLMGQVLAKVTENLRVLGEAQTKAQHQQALSSLELLNVLFRTCKHEKLTLDLTVLLGV LQGQQQSLQQGAHS
TGSSRLHDLYWQAMKTLGVQRPKLEKKDAKEIP SATQSPISKRRKKKGFLPETKKRKKRKS EDGTPAEDGTPAAT
GGSQPPSMGRKKRNRTKAKVPAQANGTPTTKSPAPGAPTRSPSTPAKSPKLQKKNQKPSQVNGAPGSPTEPAGQK
QHOKALPKKGVLGKSPLSALARKKARLSLVIRSPSLLQSGAKKKAQVRKAGKP

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FIGURE 1855

AGGTTACTATAGTGTCTGCTCCTACCCCTGGGACAAGATCCCCTAATGAGCTGGCAGGTGGGCGTGGGGGGCACA
GGTACAGCTTGGCTTCTCAGCTTTGCTCCCCATCCTCTGCTTTGCCATGAATCTCTCATCCAGCCCCGCAGGGA
TCTGCCTGGCCAGCAGTGAGCCTGAGCCCCCTTCATCCTGGGACCTGCCGACCACGGCTCACATCCTCCTGGGTG
AAGAATGTCACCTTGCTTCTATCTGCTCTTTTCGTGGTTGGCTGGGGAGGGGGACCGGGGGGTGGGGTGAGGTT
AACCTCATTGTTGTCTTATATGGTCATTTAAATCTCCCAGGGCTTCCCTCAAGGGCCAAAATAATCCGGAGACA
CAGCAGCTGTGTCCAGCACACAGAGGACCCGGCCATCTGCTTTGGTTTCAGAGCCCTGTGTCTGTCTCAGTCAGTCTC
TCCCTGGCTCTCCCTCCATCCTCATTCTGCTGAAGCCATGACCCGCTTCTCCTATGCAGAGTACTTTTCCCTC
TTTCACTCCTGCTCTGCACCCCTCCAGGTCCACTGCACCTCCTGAGAGTTCGCCGGCCCCGGGCCCCAATGGGCTTG
TTCCAAGGGGTTCATGCAGAAATACAGCAGCAGCTTGTTCAAGACCTCCCAGCTGGCGCCTGCGGACCCCTTGATA
AAGGCCATCAAGGATGGCGATGAAGAGGCCCTGAAGACCATGATCAAGGAAGGGAAGAATCTCGCAGAGCCCAAC
AAGGAGGGCTGGCTGCCGCTGCACGAGGCCGCTACTATGGCCAGGTGGGCTGCCTGAAAGTCTGTCAGCGAGCG
TACCCAGGGACCATCGACAGCGCACCCCTGCAGGAGGAAACAGCCGTTTACTTGGCAACGTGCAGGGGCCACCTG
GACTGTCTCCTGTCACTGCTCCAAGCAGGGGCAGAGCCGGACATCTCCAACAAATCCCGAGAGACACCGCTCTAC
AAAGCCTGCGAGCGCAAGAACGCGGAGGCCGTGAAGATTCTGGTGCAGCACAACGCAGACACCAACCACCGCTGC
AACC GCGGCTGGACCGCTCTGCACGAGTCTGTGTCTCGCAATGACCTGGAGGTTCATGCAGATCCTGGTGAGCGGA
GGAGCCAAGGTGGAATCCAAGAAGCGCTACGGCATCACCCCTTGTTTCGTGGCCGCCAGAGTGGACAGTTGGAG
GCCTTGAGGTTCTTAGCCAAGTACGGTGTGACATCAACACGCAGGCCAGCGACAACGCGTCTGCCCTCTACGAG
GCCTGCAAGAATGAGCATGAGGAGGTGGTGGAGTTTCTGCTGTACAGGGTGCCGACGCCAACAAGACCAACAAG
GACGGCTTGCTCCCGCTGCACATCGCCTCCAAGAAGGGCAACTACAGGATCGTGCAGATGCTGCTGCCGGTGACC
AGCCGCACGCGCATACGCCGTAGCGGCGTCAGTCCGCTGCACCTGGCGGCCGAGCGCAACCACGACGAGGTGCTG
GAGGCGCTGCTGAGCGCGCGCTTCGACGTGAACACGCCGCTGGCGCCGAGCGCGCGCGCTCTACGAAGACCGG
CGCAGCTCCGCGCTGTACTTCGCGGTGGTCAACAACAACGTGTACGCCACCGAGCTGCTGTGCAACACGGCGCC
GACCCCAACCGCGACGTATCAGCCCCCTTGCTCGTGGCCATCCGCCACGGCTGCCCTGCGCACAATGCAGCTGCTG
CTGGACCACGGCGCAACATCGACGCCTATATCGCCACGCACCCCAACCGCTTCCCCGCCACCATCATGTTCCGC
ATGAAGTGCTGCTGCTCAAGTTTCTCATGGACCTGGGCTGCGACGGCGAGCCCTGCTTCTCATGCCTCTAC
GGCAACGGCCCGCACCCGCCGCCCCGAGCCCTCCAGCAGGTTCAACGACGCGCCCGCGGCCGACAAGGAGCCC
AGCGTGGTGAGTTCTGTGAGTTTCGTATCTGCCCCAGAGGTGAGCCGCTGGGCGGGGCCATCATCGATGTCTC
CTGGACTACGTGGGCAACGTGCAGCTCTGCTCGCGGCTGAAGGAACACATCGACAGCTTTGAGGACTGGGCGCTC
ATCAAGGAGAAGGCAGAACCTCCAAGACCTCTGGCTCACCTTTGCCGACTGCGGGTTGAAAGGCCATTGGGAAA
TACCGTATAAACTCCTAGACACCTTGCCGCTCCCAGGCAGGCTGATTAGATACCTGAAATACGAGAACACCCAG
TAACTGGGGCCACGGGAGAGAGGAGTAGCCCCCTCAGACTCTTCTTACTAAGTCTCAGGACGTGGGTGTTCCCAA
CTCCAAGGGGACCTGGTGACAGACGAGGCTGCAGGCTGCCTCCCTCTCAGCCTGGACAGCTACCAGGATCTCACT
GGGTCTCAGGGCCAGAGCTTTGGCCAGAGCAGAGAACAGAATGTGTCAAGGAGAAGAATCATTTGTTTACAAAC
TGATGAGCAGATCCCAGACCTTCTCTACCTCAGGAATGGCAGAAACCTCTATTCTGGGGCCAGGGCAGAGCTT
GAGGTGTTCTGGGGAAGGTGGTGCTCAGAGCCTTCCCTGTGCCCTCCACTTGTTCTGGAAAACCTACCACTTGA
CTTCAGAGCTTTCTCTCAAAGACTAAGATGAAGACGTGGCCCAAGGTAGGGGGTAGGGGGAGCCTGGGTCTTGG
AGGGCTTTGTAAAGTATTAATATAATAAATGTTACACATGTG

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FIGURE 1856

MIRFSYAEYFSLFHSCSAPSRSTAPPESSPARAPMGLFQGVMQKYSSSLFKTSQLAPADPLIKAIKDGDDEEALKT
MIKEGKNLAEPNKEGWLPHEAAYYGQVGCLKVLQRAYPGTIDQRTLQEETAVYLATCRGHLDCLLSLLQAGAEP
DISNKSRETPLYKACERKNAEAVKILVQHNADTNHRCNRGWTALHESVSRNDLEVMQILVSGGAKVESKNAYGIT
PLFVAAQSGGLEALRFLAKYGADINTQASDNASALYEACKNEHEEVVEFLLSQGADANKTNKDGLLPLHIASKKG
* 5 IVQMLLPVTSRTRIRRSVSPHLAAERNHDEVLEALLSARFDVNTPLAPERARLYEDRRSSALYFAVVNNN
* TELLLQHGADPNRDVISPLLVAIRHGCLRTMQLLLDHGANIDAYIATHPTAFPATIMFAMKCLSLLKFLMDL
* 10 GEPCFSCLYGNPHPPAPQPSSRFNDAPAADKEPSVVQFCEVSAPEVSRWAGPIIDVLLDYVGNVQLCSRL
* KKHIDSFEDWAVIKEKAEP RPPLAHLCLRLVRKAIGKYRIKLLDTLPLPGRLIRYLKYENTQ

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FIGURE 1857

GTGAGGCTGGCGGTGGCGACAACCGAGGAGGAGGGGCGGGACGCCGTGGAGCACGGCGACCGGCTGAGCGTCATG

GAGGGCTCAGGGGAGCAGCCGGGCCACAACCACAGCATCCCGGAGACCACCGCATCCGCGACGGCGACTTCGTG
GTGCTGAAACGTGAAGATGTGTTTAAAGCAGTACAAGTCCAGCGGAGAAAAAAGTAACTTTCGAAAAACAGTGG
TTCTACCTGGATAACGTCATTGGCCATAGTTATGGAAC TGCAATTTGAAGTGACCAGTGGAGGAAGTCTACAGCCC
AAGAAGAAGAGGGAAGAGCCTACTGCAGAGACTAAAGAAGCGGGGCACTGATAATCGAAATATAGTTGATGATGGG
AAATCTCAGAACTTACTCAAGATGACATAAAAGCTTTGAAGGACAAGGGCATTAAAGGAGAGGAAATAGTTTCAG
CAGTTAATTGAAAATAGTACAACATTCCGAGACAAGACAGAATTTGCCCAAGATAAATATATTA AAAAAGAGAAA
AAAAATATGAAGCCATCATTACTGTTGTGAAGCCATCCACCCGTATTCTTTCAATTATGTATTATGCAAGAGAA
CCTGGAAAAATTAACCACATGAGATACGATACACTAGCCCAGATGTTGACGTTGGGAAATATCCGTGCTGGCAAC
AAAATGATTGTGATGGAACGTTGTGCAGGCTTGGTGCTGGGTGCAATGATGGAACGAATGGGAGGTTTTGGCTCC
ATTATTCAGCTATACCTTGGAGGAGGACCTGTTCCGGGCAGCAACAGCATGTTTTGGATTTCCCAAATCTTTTCTC
AGTGGTCTTTATGAATTCCTCTCAACAAAGTGGACAGTCTTCTACATGGAACATTTTCTGCCAAGATGTTATCT
TCAGAGCCAAAAGACAGTGCTTTGGTTGAAGAAAGTAATGGCACACTGGAGGAAAAACAGGCTTCTGAACAAGAG
AATGAAGACAGCATGGCAGAGGCCCCAGAGAGCAACCACCCAGAAGACCAGGAAACAATGGAACAATTTCTCAA
GATCCAGAACATAAGGGGCCATAAGAGAGAGGAAGCAAAAAAGATTATATTCAGGAAAAACAGAGGAGACAAGAA
GAGCAGAGGAAAAAGACATTTAGAGGCTGCCGCTCTGCTGAGTGAAAGAAACGCAGATGGTTAATTGTAGCTAGT
CGTTTCCACCCCACTCCCTTGCTGCTGTCTTTGCTGGACTTTGTGGCCCTTCAAGGCCGTTTGTGGTCTACTGT
CAGTACAAAGAGCCTCTGTTGGAATGCTACACAAAAGTGCAGGAGAGGGGAGGGGTCATCAACCTCAGGCTGTCT
GAAACCTGGCTCAGAAATTATCAGGTTTTGCCAGATCGAAGTCATCCTAAACTGCTGATGAGTGGAGGTGGGGT
TATCTTCTCTCCGGCTTCACCGTTGCCATGGACAACCTTAAAGCAGACACCAGCCTCAAATCTAATGCAAGCACT
TTAGAATCACACGAGACTGAGGAGCCTGCAGCTAAAAACGAAAAATGCCAGAGTCTGACTCTTAACCTTTTGA
GAATTGCTCTGAATTTTGTCTCAGGCATTATACAGTTAGTAATTAACCTTTAAATGCCATTACTACTTGTTTTT
TCATATCCCAAGAATAAGAACATGTCTATGTACCCGTTTCTAGGAAGGAGGAGTATATGCCTTTTGTCTATTTCT
GACACAGATGCATTTGGTCTGTCAAAACTGCAACCATGGGGTATGTAGTATGACCAACTGCATTTAACAAAACCTC
CTCTAAGTACTTCTAAATATTCTGTGCAAAATATCTTGAGAACTTCAACATCCTAAAAATGTGTTTCTACAAGACT
TTATATTTTAAGCTAAGTGAATAATACAACGTAACATAAAGCAATATGGATGTGTGAGTGTGTGATTTATTATGGTA
CCAAAAATGTCCACCTTCTTTCTGCAGCGGAATAAGCTTTTTTGAAATGCTGAGGTTTTATTTTAATAGTTGAC
AACCTGGGAAAGTTCTGAGTATTTATTTTACTGCTCTTTTTTGTGCATAGAAAGGTTTAGTAGGGTACTTTTTTG
CATTAATTTGCCAATACTCTTATTCTTTGTTCTAAATAAAGTGACTAGAAATTTTTGTGTACTATTCAATTAAAGG
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1858

MEGSGEQPGPQHPGDHRIRDGDFVVLKREDVFKAVQVQRRKKVTFEKQWFYLDNVIGHSGTAFEVTSGGSLQ
PKKKREEPTAETKEAGTDNRNIVDDGKSQKLTQDDIKALKDKGIKGEEIVQQLIENSTTFRDKTEFAQDKYIKKK
KKKYEAIITVVKPSTRILSIMYYAREPGKINHMRYDTLAQMLTLGNIRAGNKMIVMETCAGLVLGAMMERMGFG
SIIQLYPGGGPVRAATACFGFPKSFLSGLYEFPLNKVDSLHGTFSKMLSSSEPKDSALVEESNGTLEEKQASEQ
ENEDSMAEAPESNHPEDQETMETISQDPEHKGPKERGSKKDYIQEKQRRQEEQKRHLEAAALLSERNADGLIVA
SRFHPTPLLLSLDFVAPSRPFVVYCQYKEPILLECYTKLRERGGVINLRLSETWLRNYQVLPDRSHPKLLMSGGG
GYLLSGFTVAMDNLKADTSLKSNASTLESHETEPAKKRKCPESDS

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FIGURE 1859

ATGACAGTGAAGACCCTGCATGGCCCAGCCATGGTCAAGTACTTGCTGCTGTCGATATTGGGGCTTGCCTTTCTG
AGTGAGGCGGCAGCTCGGAAAATCCCCAAAGTAGGACATACTTTTTCCAAAAGCCTGAGAGTTGCCCGCCTGTG
CCAGGAGGTAGTATGAAGCTTGACATTGGCATCATCAATGAAAACCAGCGCGTTTCCATGTCACGTAAACATCGAG
AGCCGCTCCACCTCCCCCTGGAATTACACTGTCACTTGGGACCCCAACCGGTACCCCTCGGAAGTTGTACAGGCC
CAGTGTAGGAAC TTGGGCTGCATCAATGCTCAAGGAAAGGAAGACATCTCCATGAATTCCGTTCCCATCCAGCAA
GAGACCCTGGTCGTCCGGAGGAAGCACCAAGGCTGCTCTGTTTCTTCCAGTTGGAGAAGGTGCTGGTGACTGTT
GGCTGCACCTGCGTCACCCCTGTCATCCACCATGTGCAGTAA

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FIGURE 1860

MTVKTLHGPMVKYLLLSILGLAFLSEAAARKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVSMRNIE
SRSTSPWNYTWTWDPNRYPSEVVQAQCRNLGCINAQGKEDISMNSVPIQQETLVVRRKHQGCSVSFQLEKVLVTV
GCTCVTPVIHHVQ

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FIGURE 1861

ACCTGCTGCCGCCCCAGCTGCTGCATTTCTAGTTGCTGCAGGCCTTCCTGCTGTATCTCTAGCTGTTGCAAACCC
AGCTGCTGCCAGACCACCTGCTGCCGCCCCAGCTGCTGTATCTCCAGCTGCTACAGGCCCCAGTGCTGCCAGCCC
TCCTGCTGCCGCCCCGGCTTGCTGCATTTCTAGTTGCTGTCATCCCAGCTGCTGTGTGTCCAGCTGCCGCTGCCCT
TTCAGCTGCCCGACCACCTGCTGTAGAACAACCTGCTTCCACCCCATCTGCTGCGGCAGTTCTTGCTGCTGAGTG
AAGCTGCTCTGGATTTGTGCACCTTCTTGCTCTCAACCTTCAGTTCAGGCACAGAGTATCTATTCAGAGAACATG
TGGACTTCCTGATGTCGTGAAAACAGAGGCATGGACTGATTTGGAAAATATTTTATTAGTATGTATTCTCTTTTA
TAGAAGTTTTTATTCCATTGAATCTGAATTTACAGTCAAATTCACATCACATGTTTTAGAATTCTTTATTCTA
ATTCAATATACATAAAATCTTCAAATGGTATCCTTCTAGATGTTTCTTCCTAATGTTTTCTGTGGTATCAATTTTC
ATGTGGAATTGTTTGATGTTCCCTCAATAAACTTCATAGTGTTCAAAGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1862A

GCGGCCGCGCGGGCGGCCAGCGGGCGTTGGGACGTGGAGACCCGGAGAGGGCGGCGGGACCCGGGCGGGGAAAGG
CGCGGCGTGGCTTGGCTCAGGTGCGCTTCTCCACCTGGCAGCTCGCTCAGGGCTGTGGGGGCGCCTGTGAGGG
CGCCCGCGCTTGC GCGCTGGGAGATTAATATTAAGATTGGAAGTTTGTGTCTTTTGTGGATATTGGAATTTGAA
TGTAATGGCAACAGAATTTATAAAGAGTTGCTGTGGAGGATGTTTCTATGGTGAAACAGAAAAACACAACCTTTTC
GAAAGAGATTTTTAAAGCAGCAGTCCCAAATAGTCAAAATGCTACTATCTGTACCTCCATTGACTTCTGT
TAAAGCCTCAGCTTGGCTGTACTGAGGATTATTTGCTTTCCAAATTACCATCTGATGGCAAAGAAGTACC
TGTGGTGCCCAAGTTTAAGTTATCTTACATTCAACCCAGGACACAAGAACTCCTTCACATCTGGAAGAACT
TGAAGGATCTGCCAGAGCATCTTTTGAGATCGAAAGGTAGAACCTTCCAGTTCATCCCAGCACGGACCTAGCTA
TGTGTATAACCCATTCTATATGTATCAGCACATTTACCTGATTGAGTCGACGCTTTTCTCCCGTTTCAGA
TACGAGAGACTGTATGGATCGGTTTGTGATTAAAGGACGAACAACTTCCCGTTTCCCTGGGCTAAGCAAATC
TTTGTATCTTACAAACTCATCTCAGCGATTTCATCCAGAGACATGATTTCATTGTCCAGTGTACCCAGTAGTTC
TCAAGGAAAAATTTCTCAGGGGAGTAACAGAAGCCTGGATACAATTACTCTATCAGGAGATGAAAGGGACTT
TGAAGACTGAATGTGAAATTGTTTTATAATTCTTCAGTAGAACAGATCTGGATCACAGTTTTACAGTGCAGAGA
TITAAGTTGGCCCTCTAGTTATGGAGACACTCCTACTGTTTCTATAAAAGGAATACTTACATTGCCCAAACCACT
GCATTTCAAATCTTCAGCCAAGGAAGGTTCCAACGCTATTGAATTTATGGAAACGTTTGTATTTGCTATTAACT
TCAAAATCTACAAACTGTAAAGACTTGTATTTAAGATTCAAACCCAGACTCCCAGGAAGAAAACCAATTGGAGAATG
CTCAATGTCACTCAGAACCCCTTAGCACACAGGAAATGGATTACTCTTTGGATATAACACCACCTTCAAAAATTTCT
TGTTTGCCATGCAGAACTTGAATTGGGGACTTGTTTTCAAGCAGTAAATAGCAGAATTCAGTTACAAATTTCTGA
GGCACGGTACCTTCCAAGCTCATCAACACCTCTGACTTTGAGTTTTTTCGTGAAGGTGGGAATGTTTAGCTCGGG
AGAGTTGATTTATAAGAAAAAGACACGCTTACTGAAGGCCTCCAATGGAAGAGTCAAGTGGGGAGAGACTATGAT
TTTTCCACTTATACAGAGTGAAAAAGAAATGTTTTTCTCATTAAAGCTTTACAGTCGAAGCTCTGTAAGAAGAAA
ACACTTTGTGGGCCAGATTTGGATAAGTGAAGACAGTAATAACATTGAAGCAGTGAACCAGTGGAAAGAGACAGT
AATAAATCCAGAAAAGGTTGTTATCAGGTGGCACAATAAATCCATCTTGAAGACTTCACACATTAATTTGGTG
AAGAACTTGACATTTCTTTTAGAAGACTTATGATTTCAATTTGCTACCAATGAGAAGAGGCAAATCAACAAATTTG
TCAATTTATGGGGCTATAATTATGGTATATAATGTATCTGATAGAAAAATTTGATAAGAAAATGTAATGAATTTT
ATCAGATATCCAAAGTAAAGGAAATGTTTTAAAACTGCAACAAGAGACACAGACAGTAAATCAAAGTATTATTA
GGATGACTAAATAAATTATAAAGTCTGTGAGAATATCAACCATAGATAGTTCTTTCTATATTATGTTTTTGCTTT
TGTATTTTAAGCTTTACTTAGATATTCAAAACCTGGTATATCAAGTCTCTGTTAGTACTATTGGCATTTAGAAGA
CTTTACCATTATTTTCACTGCTAGGCATTATTGATTAGGTCTTGGCTCCACTGTTTACCTCTTGCTATGATTTTC
TCCCGGTAAAAATGAATTGAACCATTTCAACTATTTTCTATATTTGGAGAAAGTTTGTGCCCTGTGTTTTATAAT
TTTTTTACCCATAAGACATCACATTATCCCTTGTGAAGCTACTTATCTCCAAAAAAGTTTTCAGAAATAGAAAACTA
CATTTTGGCAGGAATAATTGAAAACACCAGAAGGTTGAAGTTTAATTGGAAACCCAGAATATACATACTTTGCTG
TTTTCTTCCCTCAAATATTTTACTATTTGTTTTATTGAGTTAAATAAGAGTATCATCCATATGGTCCATCCT
AATTCACAGAATTAATGAGCTTAAATAGAAAATTCAGTATTTTATGATAATCACTTCGTTTTTAGTTTTTAAAA
TTTAGATTATTTCTATAATTTACCGTGTGTGAGTATTTCTCATTTTTTTCATAACCATACCTGATTATACTGTGT
AACAAATATTTTCTATTGCAGTTTTCTTCCAGTACTTATTAGAAGTCACTATTTGGAAATAATTTAGCTTAAT
TGACCATAAGAACTGTGGCCAAAAAGAACAGTTTTTGGAGAGGCAGATGACATTATACCTGATTTTAGAAAATC
TCACTTTATTTTGTCTAATAAGTAGACTAAGTGCTCTGTGTTCTCAGTCTTCCCTTTTTTCTGCCCCCATCTT
ACTTTGTCCAGGCATGCAGAGAAAGATGGTGATATTTTAGGCCAGGAGTATACCTTGCTATAACCTAAGCATGC
CTTCTTTATTCCAGCTCCTATGTTCTGTGTATATCATTAACATTTTCCCAAATAAACACTTAATTTCTTTTCCC
TAGGTGCCATCTCCTCAAGCTACAAAATGTCCACATCTTATATCCCTTTGCTTCTACTGCTCTGATTTTGTGGT
ACCAGTACTCTCTGCCACTGAACATTTTGAAATATTTTGTGTTTAGATTGCAAAAAATGACATATAGGTCAGTA
CTCACATGGATTTTTTAAGATAAATCACCTGTGTGATAATATTTTGAATCTGAGACGAATACAACCTTTAAAAAT
GTTTTTAAAAATAGACTTTTTTTTTTAGAGCAGTTGTAGGTTAACAGAAAAATTGAGAGGAAGATAGAGATTTCC
TTTCTCCCTGACAAAGCCCTCAACAGCCTCCAGGCTATCAGTATCCTGCACCACAATGGTACATTTGTTACAA
TCAATGAACCTACTCTGAAACATCATTATCATCCAAAGTTTCATGGTTTACATTAGAGTCCCTCTTGGTGTTATA
CATGCTAGAGGACAAATATATGATGATATGTATGCATCATTATAATATAGTATAGTTTCGCTGCCCTTAAACATC
CTCTGCAATGCAACTATTTTAATGGGTACCAAGAAGTAAATGTATTTACTGGCTTTTAGATAATAAATAACGG

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FIGURE 1862B

GCTTTATTGTTTATTTTAAAAGCTACAATTTGTTTTAGCTGGTTTCTCTGTTCTATTAATGCTTTGAATTTCCAA
ATTTAATATATGTAGTCAIGCATTTAACTTAATATTTAATTATTTGATTTATTTAATTTTCTATATTCTTACAAT
GTATGTATGATGTATAATTTAAGGGAAAGCTATGACTTCTCAGTTTCTTAGAATCCTAGGTAAATAAAACAATAA
AAAGAAAACCCCTTACATTTAAAAGAGCTTTTCAGGTACAGAAGTATTGATACAACTAAGATCCTAAATGTTTTAAT
TAGTGTTTACTTTAAGCCTTTTTTCAGGTGAGGAGGTACTAATGCTGGTTATTTTCCTTGAAGCTTTATGTGGACCTA
TAAATAAAAATCCAATCTCCTGCTAATAGGTATGCATATTGTGAGAAAAACGTTAGGAGCTGGTAGTAAAAAATG
AGATTCTATGCCAAAATAACTTCTCTTCATATTTGCCTAGGCATTTCTTGACCTTTACCCACTTACGCAAGGAGA
AGGAAATCATAATGATGTCATGTGATCAAAGGAAACCATGGAAGGGTTACGCTGATAGCTGATAGCTTTTACAG
TGCTCATTCCCTAACAGTGGATTTACTTGTAAGCTTTCAGATCAACACAAATAGCTGCAGCCTGGGTAAAAATATA
ACATCACTATTTGGCTTTTGTGTTTGCATGATTTTTAAAAGCAGTACTCCTAGGGAAATGGCCTCTGAAGTATATC
AGTTTCATCTCTTACCAAGACTGTTAAGAAGAACTAGTGGGATTTTGAACAAGTTATATAATTGTGGTCTGAAA
AGACCCTAACTGAAGTTCTGTTTAAATATAGTTACATGAATTTCTCTGATACTAATGTACTCAACAGCCAGGTA
TAACTATATCTCCTAGTAACATTTTCCATTTTGTGTTAATCAAATACTTGCTTATGAAGGATTTCAGAAATTTG
TAATAAATGTCAGCTTTTGATAGCATAGCAGTAATTGACATTTCAAAAATATATATTTCTTTCTGTGTTTGGTTG
GGTGTAATGAGGAAAATACCTGATAAAATGCTCTGAAGACACTTTCTAATGTTATCTTGGTGCATAAGCTGTAATT
TTTATTCAAAATTAAATTTCAAATGTTTGCAGTTTGGCTAAAACATTGAGTTGAAAGAATTATGAAAAGTGGGC
CCATATGAAGTACCATGTTCAATTTGAAATATAGATTTAAGATTTAGAAATATATTTAAAAGAGTTAATGGAGCCT
CCTAAATTGGATTTTATTTTGTGGGTGAAGAATTGTAGGAAGATGAATGTGGCCTACAGTTTGTAGTAATCTCCTA
GTGGAGTTTTTTTTAACTTAGTACTTTTTTATTTTTTAAGTTTTTTAATCTATAAAAAATGTGATTTCTATAAACC
ATGATTACAATAAATAATTATATTAATA

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FIGURE 1863

GRAGGQRALGRGDPERAAGPGRGKARRGLAQVRFSHLAARSLWGAPVRAPAVAAWEINIKIGSLCLLLDIGNLN
VMATEFIKSCCGGCFYGETEKHNFSVERDFKAAVPNSQNATISVPPLTSVSVKPOLGCTEDYLLSKLPDGEKEVP
FVVPKFKLSYIQPRTQETPSHLEELEGSARASFGDRKVELSSSSQHGPSYDVYNPFYMYQHISPDLRRFPFRSE
VTRLYGSVCDLRTNKLPGSPGLSKSMFDLTNSSQRFIQRHDSLSSVPSSSSSRKNSQGSNRSLDTITLSGDERDF
GRLNVKLFYNSSVEQIWIITVLQCRDLSWPSSYGDTPTVSIKGILTLPKPVHFKSSAKEGSNAIEFMETFVFAIKL
QNLQTVRLVFQIKQTQTPRKKTIGECMSLRTLSTQEMDYSLDITPPSKISVCHAELELGTCTFQAVNSRIQLQILE
ARYLPSSSTPLTSLFFVKVGMFSSGELIYKKKTRLLKASNGRVKWGETMIFPLIQSEKEIVFLIKLYSRSSVRK
HFVGQIWISEDSNNIEAVNQWKETVINPEKVVIRWHKLNPS

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FIGURE 1864

GGGGGCGCGGCCGGTTACTCGCTTACCGGAGGCTTCAGTCCCCGGCGGCGCGGCACAGCTAGGGTTCACGGCCA
CTGGGGCAGAGGAGCCGCGAGAAGATGTGGGTTTTTGGTTACGGGTCCCTGATCTGGAAGGTGGATTTCCCTAT
CAGGACAAGCTGGTCGGATACATCACCAACTACAGCAGGCGCTTCTGGCAGGGCAGCACGGACCACCGCGGGGTC
CCCGGCAAGCCTGGAAGAGTTGTGACTCTTGTGTAAGATCCTGCGGGATGTGTATGGGGTGTGTGCTTACAGATTG
CCAGTAGGAAAGGAAGAAGAAGTAAAAGCATACTTGACTTCAGAGAAAAAGGAGGCTACAGAACCACAACAGTC
ATTTTTTATCCAAAAGATCCCACAACAAAACCATTCAGTGTATTGCTATATATTGGAACATGTGATAATCCTGAT
TATCTTGGTCTGACCTCTGGAAGACATTGCTGAACAAATTTTTAATGCAGCTGGTCCAAGTGGAAGAAATACA
GAATATCTTTTTGAACTTGCAAATTCTATTAGGAACCTTGTGCCAGAAGAAGCAGATGAGCATCTTTTCGCTTG
GAAAAATTAGTAAAGGAACGTTTAGAAGGGAAACAGAACCTCAATTGCATATAATTTAGTCTTCAGAGAATTAAC
TTCAGTGACAAATGACAATATGATTTGGAATACGTTTACTTAAAGATCTTATTTTTAATGTAGTGAGGATATTA
TTTAACTTTTTATTTTAACTGGAAATGTCCTGAAACACATATTTAAATATTGGGATACAGTGAAAGAAAAATTC
AAATTTTAATAACATAAAGATTTCTAACTTTATGTTATTGAACACTTACTCACTAGAAGTGAGTTCTTTAGAAA
AATACAGTGAAGGACTCAGTTCAGTCTTGTTTTATCAGAGTGATAATCATCCTGTTTCACATCCCAATACTATT
TTGAAATTCATAACAATTAAACCAAAATTCCAATAAATATAAGGTTATGCCTTCAATATATTCTATACAATTCT
GTAACCATGGTTTTAAATACACAAGCTTAAATAACATGCTTAGAAATACACAATAATATGAACAGTATTTTCAGC
CTTAATTGTGAATTTCTTGTTATTCAAGTATTAATGAAATCTTTTGAGTTTTTAGCCAAAAATTGGCATTTTT
AAAATACGAAAATTTCTTGGAATTATAATGTACTGTACCTCTTCTTTTTTAAATAAAGGCATTTTACTATATG
AAAACATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1865

MWVFGYGSLIWKVDFPYQDKLVGYITNYSRRFWQGSTDHRGVPGKPGRVVTLVEDPAGCVWGVAYRLPVGKEEEV
KAYLDFREKGGYRTTTFVIFYPKDPTTKPFSVLLYIGTCDNPDYLGPAPLEDIAEQIFNAAGPSGRNTEYLFELAN
SIRNLVP EEAD EHLFALEKLVKERLE GKQNLNCI

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FIGURE 1866

GTGAAACTCCCTGCCCTGTTCTGTTTCTCTCTGACCACCAGTGCATGCAGCCCCTGTCATGTACCGCCTGTTTGC
TCAAATCAATCATNGACCCTTTTCATGTGAAATCTTTAGTGTTGTGAGCCCGTTAAAAGGGACAGAAATTGTGCAT
TCAAGGAGCTTGGATTTTAAAGCAGCAGCTTGCTGATGCCACCAGCTGAAAAAGCCCTTCCTTCTCCAACCTCGG
TGTCTGAGAAGTTTTGTCTGCAGCTCATCCTGCTACAGAATGAACCTCCTTGTAATTCTACAAGATATGCCATGGG
CCTTTTACAGGGGACACAGGCTTCTTAAAACAACCCGGCTTCCTCACCTATGTCTTTATTTACAAAAGCTGTG
CNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNTGCATTCTGATTTGGCTCTTGGCTTGAATGTTATTAACGCCACATTTTTTAAATAGACAAAAATATGA
GATTAAAAATGTTGAATTTTACTAACAATAAAAGTTGTTCAAAGGAAACTATAAGGTTCTTGTTTCAACTCTGT
CATAGGAAGAACAGGACAGTGAGCTGGCACAGAGTTAGGGAAATTGACTGTGTCTCATATTGGCTAGTGAGAGTG
ATCTGTTGGAATTGTATATCAAAATTTTAAATGTACATACATTTTGTCTAGCAATTCTACTATTGGGTATTTATAT
AGTACATATAAATATAAATGTATATGTTTAGTAAATATATACTTATAGTTAGTAAATATATTTATATCTATTTA
GTAAATATACTAAATGTCAGGCCTCTGAGCCCCAAGCTAAGCCATCATATCCCCTGTGACCTGCATGTACATACG
TCCAGATGGCCTGAAGCAAGTGAAGAATCACAAAAGAAGTGAAAATGGCCTGTTCTGCTTAACTGATGACATT
ACCTTGTGAAATTCCTTCTCCTGGCTCATCCTGGCTCAAAAGCTCCCCACTAAGCAACTTGTGACACCCACCTC
TGCCCGCCAGAGAACGATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
GATGCAGAAATACATGTGTACAAGACTTGTCTGACACCTGGCACAGAACTGACAGTAGTGGCTCCCCAGGGAGG
CTGGAAGGAGGGTGGAGGACGTGACAGGGAAAGGAGATGCTTTATGGACAAGGGCCTAAGCTGCAGCTTTGCTTG
GAGCGTTACCACAAAACAATAACATACATCATGTGATGTTTAAATATCACAAATATATATTTAATAATAATTGGTG
GGGCTGAGCACGG

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FIGURE 1867

MILPCEIPSPGSSWLKSSPTKQLVTPTSARQRTXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXLLQNISQSLIMMQYMCTRLVLTPGTELTVVAPQGGWKEGGGRDRERRCFMDKGLSCS
FAWSVTTKQIHTSCDV

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FIGURE 1868A

GAAAGAAATAATAACTTTAATTATAAGACGTATATGATTTTTGCAGTTTTACTTAGTGTGACATTGGGTTTTATGA
GAATCGTGACATTCAAGTCCAGGAATAATAATGGTCATCCAAATTGTTTGAAAGGAAAATAATCCCAGTGGCAA
AATGATGGTAGAATTTGGGTAATCTTTTTTTTCTTTTATGAAAAGAGATTTTATTGAAGGTAAAACATTAGAGG
TTCATTGAGAATCTCTAAATCCATGTTTTGACATTGTCAAGCTCATTGCAACTCCAGATTGAGTAACACTTATA
ACACATTTCTTTTCAAAGTGCAAGATTTTTTAAAAGAGACTTGTACATATTCAATTTGGCTGGTTTTCAAATGGTG
AGCTGAATGCTGGGTAATCTCTACTAGCTCCTTAATCAGATTAAAATTCTCAGTGTTCCTAGTTGTTTCTGCA
TACTTTATGTGAGTTGTTATAGCTGTAACATTACACTTTATTGCTGTTTGTGTTTCGTGACTTTTGGTAATTCT
GGCATTTAGAAACCTTTCACTTTGCTTCAAACGTAAGTTATTTTTGGAGTTTTCAATTTGATATATAATTATTTA
TTTTGCCCTTTTATTTCCCAAAGACATTGTAAGGGTTAATTAGATCATTATATTTTATTATTACAGATTAAAGTT
GGGCAGTAATCTTAATTATGATGGAATTATCATTATGCTAAGTAATTAACCTTTACCTAGTTTGTTTTACAACCTAG
AACCTGCCCTAAATGTTGAATATCTTCTAGCAAGAAACAGTCTGTCAATTTTACTTACAGATGTCTAACCAAAC
CATACTTTACATAAACTAGTCGTTTCGGTCAAATAGAAAAATGTGTGAATGCCATAAAAAACAAAAATTCTCAGT
TAAATGATACTGGGAAATAGGGAAGACAGCAAAGTGAGACTTGGGCTCAGGATGGTTTCAGGAAGAAAAAAAAGA
AAGACCCCTGAGTACCATTAAATATTCCTCAGAAATTATTATTTCAAAGGAAATATTTCTGTATTATAAATTTTT
CATGAGCAGCCATTATGAAATCTCACAAGAATCATAGAATTCATAAAAAAGGTAGAAAGTAATTTTTTTACTTA
AAAATATAAATTAATAAATAAATTTTTAAATCATAAGCACATAAATAGAACTTACCAGGGAGAAAGAAAACCTGA
AGGCACAATTTCTTTTCTGTTCAAATGTGAACCCAGGATGTCTCTAGATGATGATGGATGATAGGTGGGGAGAT
TGTTTTTTTTTTAATACAGAATCTCATAGTTTTGGATTAATTAGCACCAATCAGTTTAAACACTGACTGTTAGA
ATAGCTGCATGGGTTTTTTTCTTTAACTAATTAAGCGTTGGCTACTTAGTATAAGTAAGTATAAGCCGAATTAA
GGTTCGTCTACATCTGTGTTTAGAATATTTTTTTAAACTAAATAAGTGTGGCTAGTTTTGCGGTGTAAGCAGA
ATTAAGGTTCTGCTACCTCTGTGTTTAGAATATTTCCCAATGGATTTTTTCAATTTTCAGGTGCTATTTTTTGACCC
TGTATCCACTTTAATTTAAACCGAATTTGGTAACGTTTCTCCTCTGTCTCTACATATATTCATGCTTTCACCTGC
TCTTTTAACACCTGCTTTTAGTATCTGAGGCACTTTTTCTGAACTCTACTTGTGCACTGGATCCCTCCTCCTTC
TCTGCCAGGCTGTGTTTACTTTAICCTTACATCACCACCTTAGTGATTCTTTCTTTGTATAAACATGGTAAATGT
CTNCATTAGCCTAAAAGGAAAGACCAAATAAAACCTTTTCTTACCCTTGGATGCATTTGCATCCTGACTTCTGAA
ATGCCTCCAGCCTCCATTTTCTCCCTTCCCAGTTATTCTTAGCCAGCCATCTCTGTCTTTAGCTCCTACAATT
TTCTTAGGATATTCTGGGAAAGATGAGCGGAGACTGCCCCGCTTGTCAAATCTAGTGTCTTTTTTTCAGTCTCTCA
CACTGCTTGACCTATGTATAACCTCCTATACTTCCCTCTTTGCATACTCCTCTGGGTTTTCTGTGGTAGTCAAGA
TTCTCCTGAGATTTATTTCCCATGAGTCTTGACCCCTCCCTCAGTTGGTGCTATTTCCCCCTACCCGCCCTC
CGATGATCTTATCAGAGCCACAGGTTCAGTTTCTTTCAATGCTACCTGAATGTCCTGATAAACTGGCTCGCTCT
CTTCTTTACCTTCCATAATGGCATTACCATTTACCACGCCACCCAAGATACTTACTAGGAACCTCAAAGTATTGT
ATTCTTTTTCTCCATCACACTCATACTTAATCATCAAGTCTTTTGAGCTTGCTCCTCTTGAATATGTCCCTTC
TTAATTCCTGCTGCCTTCTTAGTAAAGGCCTTCATTCTTTTTTCCCTAGTAATAATCTTTTCCATATGTTCCAGT
TAAATACCATGTTCTCCCTATTCTTATTACATAGCTAGCATTCCTTGAAAAAAACAATTCTCTCAGGCCTCC
ATACCTTTAGCATGTTACCCACTCTGCCTCTGCTCTTCTGGAAGTGAACACTCATCTTGAAGGCTGGGCTTCT
GTATGAAGGTTGGTCTGCTCCTTACTTGAGGTGAAGCTTTGTACATGCCTGTATTACGGACATCCTCTTATTT
AAGTGTGTTGTCTCTTTCGTCAATGGGACTCCAGCACCAGCATAGTCCCTAGTATACTAGTTGGTGCTGAATAAA
TAGTAGCTATTATTAGAAAAGGAAGGGTGAAATTGACATGGGAGTTAGTAAAATGTATATGGAATGATTTTTAA
AGGGAAAGGTAATGATTTTCTGGCAGGAAAAGCAGCAATGACAAGATTACTTAAGTCTTGTAATAACACTTCT
CTTCTTGACCTGCTGCTTCCCTTTTTTACCANACACACACGCACACATACCACAGCCCTTGAGACTGAAAGCA
GCTCTATTGAGAATAGTAGTGCAACTGTATTATGTAGAAATTCTAAAGTTTTTGGGATTATTTATAGCCCTGA
CCTTGCTACTTCTCTCCACTTTATGTGGCAGGTTAATCTCAGGTCTCCCTCATACTTCTCAGCCTCAGCACC
TAACCTTCACACAACACTCCAGTATTGATGCAGTCAATCTTGATAACATTTTTTGAATGTCCAATGTGCAAAGC
ACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAACCTTGTCTCTCAAAGATGTCAGTCTTTTTCTTTGCA
AGGATAACACATGTAGAGTAAAATGCATAAAGGGGACTAATTTTAAATGTACAGCTTAATTAATTTTTATGTATG
TTAACACCCATGTCACCACCATGTTTAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNT
GTACCTACACCTCTAAATCTATTTCAATCTTAATGGCCTTTTAAATAACTGGGCTTCTCACAACCATAGTGAAC
AGAAACAGCTGGGTTGTCAACGTCTAACCTAATACTTCAGGAAAACCTCATGATGGTTTCCATGTTAAGAGAGACA

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FIGURE 1868B

TGGAGCAGGGCACTGGCATGGTG

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FIGURE 1869

MMVSMLRETWSRALA

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FIGURE 1870

ACCACAAGGAAATTGTTTCCCTTTTGTGAAAAGATGGGATTGGAGTAAACAGTCCCTTCAAGGTCTGACAATCTT
TGATCCATGTATCTGGCCAGTTCCAGGAGGACATGTTAAAAGGGTTGGGACAGCAGGGTGACAGGTTCCGAGGT
GGATGCGGACCACGTTGAACTCAAGCCTTGCACTCAGCTTTCCTAAGGATTCCCCTCGTACTATATTTTTTGTCA
GGCGACTCCGCGGTACCTTTGCTCCGCGGTGATTGGCCTGCAGCGGGTCCCTCGTGTGTGTCCAATATGGCGGC
GCCCAGTGGCGGTGTGAACTGTGAGGAGTTCGCCGAGTTCCAGGAATTACTCAAGGTGATGAGGACAATTGATGA
CAGAATAGTACATGAATTAAACACTACGGTTCCAACAGCTTCCTTTCAGGGGAAAATTGATGCCAGCCAAACCTG
TAAACAACTTTATGAGTCTTTGATGGCAGCTCATGCCAGTAGAGACAGAGTCATAAAAACTGTATAGCCCAGAC
TTCAGCAGTAGTAAAAACCTCCGAGAAGAGAGAGAAAAGAATTTGGACGATTTAACGTTATTAACAACCTTAG
AAAAGAGCAGACAAAGTTGAAATGGATGCAGTCAGAACTGAATGTTGAAGAAGTGGTAAATGACAGGAGCTGGAA
GGTGTTTAATGAACGCTGCCGAATTCACCTCAAGCCTCCAAAGAATGAATAAAGAGAGATTCTTTTTTTTTTTTT
TTTTTAAAGGACTGGGTCACTCTCATAAGAGCTAAGCATGACAGATATCAACAGGGCGGGCTTCCTAGGATGATT
CTGAGCCAACAGTCCAAGACCTTTTGTGATTTCAGCCCCACTTAGCCAAGACCTCAAGTATAAATAATTCTGAT
AATTATGGAGAAATCAACTGCTATTTTATACTGATTCTGTAAAAAAAAGTTTTGTAACATTAAAAATAATGTT
CTGACTCAGTGTAaaaaaaGAAAAACCAAACCTG

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FIGURE 1871

MRTIDDRIVHELNTTVPTASFAGKIDASQTCKQLYESLMAAHASRDRVIKNCIAQTSVVKNLREEREKNLDDLT
LLKQLRKEQTKLKWMQSELNVEEVVNDRSWKVFNERCRIHFKPPKNE

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FIGURE 1872

TGCTCAGGATCAACAGTGGTTAGCCAAATGGTCCAGTATAATACACCATATATGCTTATGTGATTCCCTTGCT
TTGTTGTTACATTTATTAGGTCTATACTAAATTAGCCTTCAATGATGAAGACAGACTAAAGCTAAGCCACATGAG
ATCAAGGCCATTTCAACATGGTTGCCTGGAATTCCTCAAAAAACCTGTGGGTTGTGGGTTTGGCATGTCAAGCTT
CAGACCACAAGGTCTTAAGTGGTAAATAGATGCGTTGTCCTAATACTGTTCCAAGGTAGAGAATCCTGATGATAA
CTATATAGGAACTCAAATAGTTCATTATTTCTAAAAATGTATATTTTAAGGCATGATACAAGTCCTACAAAC
ATAAGTAGGTGAAAAAAAAAACCTGTGGAGTGATAAACATTCTATAAACCTGGAAATTTGTGTGGAGTTC
CTAAGCTCACTTTTCCTAAATATAGCTATATAATATTGTAAACAAATTTGTTTTTTAGAACTTTTAAGAAGA
TTCTGTGAGCGTAATTGACAATATCTGCATTAGAAACAGAAAGTATTATCCATCATAAATATGAGAAAAGTGTG
TCTCTCTTTCTGACAATCTTTTTATCTTATTTTTTCAAACGTTGTGGTTGTTGTTTCAGCACCATTTTAAAGA
AAGAATACAAACAATCCCTCAGCTTATCAGGTTGACATTTATGAAGCTGACCTCATCACTCTTTATCTTTTAT
TGCAGTATAAATAGCATAGACATTTGGTGTGAAGGGAGGAGAAAGGAAGTAGTAGTTCTGAGAATATTCATT
ACAGCGTGACTATGGAAGAATGAATAGCAAAAAAGGAGAATTTTTTTTAAAAAGATCTCTCACTGGGAAAAG
AAAGTTATGCATTTATAAAGTAATTAACTGGTTTTCTTGTACTTTATTAATCTGAATCTAATGGCACTTCC
TACGAGGGTTTTCAGATGTGCTTGTAGTTAATGGCAACATTATCAGAATGACTACACAGACAGTCTACTCTGA
GGAGATGACTTTGGAAGAAACCCATTTGGAACACACACCCTGCTATGTCTGTGGAGAAATGGAACGCAATCCT
CAAGAGTCACACTTCATATTCCTTCCTTTCAAGTGGTTGATAAAAGGTAGTGCTTCAAGCACAGGATTTATGGAA
TAGTTGGCAAATTAACAACATGCTTTTTATTTTGACTACCATTTAAGTGGAATCTTTGAACCTTTTTTTTTTGACA
TGGAATCTCTAATGTGGTGAGAGAGAAAAACATAAAAAATATAAAAAACATTCAAGCAATCG

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FIGURE 1873

PQDQQWLAKMVQYNTPYMLM

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FIGURE 1874

TGGCAGTGATGTCATTCCCTTACTAGGCTTCCAAAGCCACTGCTGTGGCCACAGCTTCCATGGAGACAGGCAAGCT
GAGCCTCTATGTGGCACCAATTCCTGCAGCTGTTTTGTGTTGGAGGGAAAAAATCCAAATGGACATCAACAGCTT
TCATCAACTAAATAACCACAGAAAATATTTATGAAGACTATAAAGCAATGATTACTTTTGAATTGGAAAGGAATC
ACTATTATTTGAAATGTTTCTTCAAAAGTGAGCATCCGGACAGGAACCATCATGGATGCTGAGGCCATGGATGAA
GGCCTACTCGGGAAGATGATATCCTTGCAGTCTCAAACGGCACCCACAAAGGTGATATCCTAATTTACAAAGG
GAAAAAGGTACCTTAATCTGAAATCTGGCAAATGCAGCCTCAACAGAAGTGACAGAATTGAACATCGCCAATAAT
GGGACACACAGACATCACATGCCCCAGTCTGATGCACCACGGAGTCGTCTCTGATGTATTCTTGTCAAAAAATG
TTTGCTGATTCTAATCATGAAAGAACAATTAGAAAAAATCCAAATTGACAGATATTCTGCAGAATAAATGGCCT
GACCTCATCAAAAAACATCAATGTTCATGAAAAACACAAAACATTGCAGATAGCGTGAAATTAAAGATTACAGAGAT
ATAACTTAATGCAAGATCTCTGACTGGATCCTAGACTGCAGGAAAAAGTCTGCTATAAAGAACATTTGGATCACT
TGTAGTAGCTGGGAAATAAAACAAAACATTATTTGTAAAAGGGGGGAAATCTGAACATGGGTCTTGACAGTATTTA
TGACAGTTTTTTCGGGGGCAGAGATTTCTAGATTGACAGCTGTTTTAGTACTTTCAAGGTGATGCTCTGTCTGCTG
GTTTGCAATTGTTTCTGTCTGAGTTAAGAGACTGGCAGAACACAGAGTTGCAGTAGCCAAACACTGGAGAAAGCTG
GGCCCTACAGAAACCTAACGCTGAAGAAACCTCAGGAGCCAAACTGGTGAGAAAACAAAGAGTCCTCCCTCTCT
CCCTTTTCAAATAATGATCATAACATCTTCAAGCTGTCTGAAATGGTTAAGGAGTTCAGTCTGTCTGCTCAGGCACAC
ACCAGAGCCAGCTAGCCACACAGACCCCATCAGAGCAAAACAGACAAGAGAATTTAATTCATATCCACATAGAA
AGGACTTCTAGGTAGGAGGTAGACCCCTTTAGCTCCCTTCCAATTAAAGGAGTCCCAATTCTGGCACCTGAGAGT
CCCCTGGGTCTAACAGCTATGATATTTATGTAGTGTGTTGCTTACCTAAATGAATACAATTTCTTCCAGACACG
TGACACTGATATTAAAGTGCTAATGAGAGGGATCTATTTCTTCTGTACGCTAAAAGAGAAACAGTAGTTTCAGAT
TTCCCATCAGAAGTCCGAGGACTTTGTTCTTGATACTACTACCAATAAAAATTGAGTATTTGAAAAATTCCTTT
GTATTTTCCATCCATACACATTTTTTTTTTAAAGCATTTTAGGAAGTCCTCTAATTATATAGTAAAAATTGTCAGC
AATGGCCTGCTAGTTTTCTATTTGACCTAATCACAACCATCCTCGTTAGGTCCTGAGGTCTGCTCTGCTGCTTGG
CCAAAACCAAATGGTGCCAGGTACAAAAGCACTTGACATGTGAATCCTGCATCCATTCTACAATGGGTCACTAT
TGACTGAAATACTTTAATAAAAAATGATAGAGCACATAAAGCTTGCTGTTGACAGAACTTCCGTGCTCAAGCAAG
GCAGTGCTATACATGGTGAGACCTTGACAAAAGTCAGTTAACTAACAGATGATCTAGAAGCAGGTGACACAATGA
AATACCTTTTGAGCTGTTGCCTATGTCTGTGGATAGGCTCTTTGTAGCTAGGTTAGGCTTCTGTGTTAAAGTGT
GTTAGAAGAAAGCATCACATAAGGAAAAATAGAACTCTATTCGTATGTTTTTTCAAACAGAAGTCAAGTCACATT
CAGGCAAACCAAATCTGTAACATTCAAGAAGATGCAGTGACTCTCCGCATCTTAGAGCCACGGTGTCTGAGGTG
GCTGGCATGGCTCCAACACGCTGGCTTCCCTGTCAGTGGATCATTTACAATATGGTGCATTTCAAATTACTGGTG
AATTCAGTGAATACTGGCTGTTTTTTTTTTTTTAGGGGTAATCTTATACATAAAATTTAGGAAAAGAAAGAGAAA
AAAGCAAAAATGACAGAAATAACTCAAAAGTTCCTAAAATTTATGTGTATCTTTTCGTACCTGTGAACTCCTGAA
TAAGTATTTATATCTGACAGGTACAAATACAATAATTATATTTTTAAGTAAAACCTATTTAATAATATGAAGTAT
GGTGTTAAATACATGTATTAAAAGATAAGTAACTTCAGAAGTCTTCTGACTTTTTAATTGTAAAATAAGTGAAAA
CTGTTTTGTGCTTTTTTTATTTACTGTATGC

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FIGURE 1875

AVMSFLTRLPKPLLWPQLPWRQAS

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FIGURE 1876

TTTCTCTCACGTGCCTATGGAGGAGAGAACACACATAGTTGGATTGATCCATACATAATTGGGCGTTTGCAGGCA
AGTATGAGGACAAGAAGACAAAAAGATGAAAGTATTTGTAGGCATGATTCAAGATTAGAGTCACAGTGTTCAAG
CTGCTCGCTGATGAAAAGGAAGCCAAGAAAGAGCTGTGAGAGTGAGGAGAGGATGGAAGCCTTTAGGTTCTCCAT
TCAATCCAAGAACGGAGCGGGAGAGCTGGGAAGGATAACGGGTTTGCTTAGAGGGTAAGATATGACATTTAATAC
ATTCTTCAGAAGTGAGATGTTTAAAGGAGTGACCAGGTTGACTGTGTGACCATGAGTATGAGTAAATGAAGTAGA
ATGAAAATGGTCAATGTAGTTGAGAAAGTCAAATAATGGTGAGTATTTTAGGATATAGTTGTGATTTACAATTC
AGGTGTGGGTCAGTCAGAGTTTGCTGTTGCTGACATGGTTGACATGTTTGTTTTACTACTGCCACCAGCAGGAGG
AGATGAGCTGCAGGGTATCAAAAGGGGTATAATCGAGATGGCAGATCTGGTAGCTGTAACTAAATCTGATGGAGA
CTTGATTGTGCCAGCTCGAAGGATACAAGCGGAATATGTGAGTGCACTGAAATTACTCCGCAAACGTTTACAAGT
CTGGAAACCAAAGGTAATTCGTATTTCTGCCCAGGTGGAGAGGGGATCTCTGAAATGTGGGATAAAATGAAAGA
TTTCCAGGACCTAATGCTTGCCAGTGGGGAGCTGACTGCCAAACGACGGAAGCAACAGAAAGTTTGGATGTGGAA
TCTCATTACAGGAAAGTGTGTTAGAGCATTTCAGGACCCACCCACAGTCCGGGAACAGATTCCACTTCTGGAACA
AAAGGTTCTCATTGGGGCCCTGTCCCCAGGACTAGCAGCAGACTTCTTGTTAAAGCTTTTAAAAGCAGAGACTA
ATAAAATTCATCCTGTATAATAATTTTACATATCATTTTATAAAGTATTTTAATAGAAA

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FIGURE 1877

MVDMFVLLLPAGGDELQGIKRGIIEMADLVAVTKSDGDLIVPARRIQAEYVSALKLLRKRSQVWKPKVIRISAR
SGEGISEMWDKMKDFQDLMLASGELTAKRRKQKQVMMWNLIQESVLEHFRTHPTVREQIPLLEQKVLIGALSPGL
AADFLLKAFKSRD

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FIGURE 1878

AAAGGAAAACGTGTAACCTCTTTAATAATACATTATTCAAATTCAAAGATGATAGCACATTTTGAGATTCAGATTG
GTAATGTATCTTTGATTACACTTTGCAAATGTATTTGACAATTAACCATATACTACTACTTTTTATTACTGAGGT
AGGAGGCAGGACTAGACTCTGGAGGTGGGGATTGGGCTCCAGACCACACTGAAGACAAGCTGAAAGGGAAGAGGT
GAAAGAGTCTCTCCATAAAACACACTCACCAGTGCCACGTCAGGTTACCATTGCTAAGGCAACAGCTGGAAGTTT
* TCCTTTCCATAGCAACAATCCCACGAXCCTGAAGTTACGACCTTTTTTCTAGAAATTTTGGCATAATCCAC
TAAATTTGCATATAGTTTAAAGTGGGTATTAATGTGATTGCAGTACTGCTTCCGAGCTGCTACTCTGGGCAC
A. TCCTATTGGGAGCC

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FIGURE 1879

TGAAGTAGAATTTTATTACAGAATTTACAAAAGAACTTAATATCTAAGTGTAAGATAGAAAGCATTGAAATTCA
TTAGCATCTATAAATACAAGATGATTTTCTCATACCTACCTCTACCACAACCCTAAATCAAAACAATTTCTTATG
AAGCTTCAGTTTTCCAGAGGTAAATTCCAGTACAATATTTGGCATGCTATTAAGTGAGTGGGTGCTGAAATCCT
ACTTCGTTTTCTTTTTCTTTCAAAGAAGGAAAATAAGGACTGTGCATATCGAAAATCAGCGTTTCTAGGAAGTTG
AAAGTTTGGGACAGTCTTCTTGGACACTCAATCCTAAATACATGAAAGGCAGCTACTAGCGCAGCCAAGGCTGTA
ACACAGTCGTCCACCTTTGTGAGCCTCTCCCTTTCTAAATATAAAGAAAATTTCGCAGACCTCCATGTTGAAAGGG
TTTTTAACCTCCAACACAGGTGTGGACACTTGCACCTGTTTCATTTCATGATGACAAAAAGGCTGGGATCATCCCCA
AAAACATCTGGGAGGAGTAAACATGTGGCTGTCACTTTCATGTATTTCAACATGTCTTCATCTGTGTAATGTTTC
ATTTTTCTTGCAATACAATATTGATTGGATTGTCCACCACTGAAAAAGAAAGTCAGTATATTTTCTGAATAGGAT
TCCAAAATGTGCCTTGTTTTCTTATAAATATCTGTTCTTGTAAGAAGTTGGAATTCTCTGAACATCTGATAAGGG
CACTTCAAGAAAGGAAACAGTTTAAGAATGTCCTTCAGAGGTGTTCCGGCTGCCAATCATCTTTCTTCTTATTTCC
AAAGTTTGGCTCATTCTCTTGTCATTTCTCTCCAGTCCTTTTCTGTTTTACGTATTCTTGCTGGAACCACTTA
ATATGTTTCATCTAGCTCAGAATCAAAACAAACAGCTTCTTCTTTATCTGGACAAGTTTAATTTTCATCAAATCTT
ATATCAGCAAGAGATTTCTTGTCTGGCCTCTTCGGTGTCCAAATTTACACTTATTTCTAATCACTTGCTCATCA
TCTTCTATGGGTCTTCGAACATATTTAAAGCGATCTTTGAGGGCTCGTTTCCATAAAAAGAAGCCACAGCCATCC
TCATCCAGGAAAGGTGGGCCTGCAGCAGGGCATTAAACCACGTCATTGTACTGCTGGGTGCTGGGGTACAGTGAG
CCTTCCAGATACTTAGTCATGTCGGCCTGGAGAACTCAATGATCC

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FIGURE 1880

GGGACAGAGTGATCAAGGCAGAGTGATCTAAAGGACACAGTAGTACTTCTTTAGGACCCTGGCAGAATGGAAGAG
AGCATCTGGCTTCTAAGGCACTGCACAACTTGAATGATCTTCTTCAGAATTGACAAGGAAAGGCCATGTTATGT
TCACCCTGGGTAAAGTTTTAAGTGTATCTTATTTAATTTTTTTCAATATGAGTCATCTCCAGATACTGTGATGAT
TTCCAAATAACCAGAATCTAGATGACTAGAAATTTACTCTAGCTGGCTTTAGACAGGAAGCGTGAGGACAGAATC
CAGCTGCTTCCACTCCAGGGTAGGTCTGAAGCCAACCGTCCTCGGTTTCCTGGCCTGTGGCATCAGTCTGGTTGG
ATTACACACAAAGCCCTGCAGATCTGCTGCTTTTCTGATTCTCCTGTCTGAGTGAGTGCAAGGGGCTCCCCCTG
TCGCCGATGTGTTCTTTGAAGCAGATGCTGTGCCTGATACCTGCTGGAGAGTCCCACCGCCTTGAGCTTCTGGGT
CGAGAAAGGCCAAGTTGCACACTACTGAGAGACTGCCATGCACCCCTGGAGGCCTCAGAACATTGACATGCTC
CAGTCATGGCCACGGCAGTGACTGCTGATTGCCTAACCCACATGTGTTCTCCCCCTTCCCTGATAATCAAGCCC
CTGATTTTTCAGCTGGGCACAAAATAATTCTTCCTAGAACAACTCCACGTGTGTTATCGCCCTTGCAGCTGGGGGT
GGCCACCACTGGGGAGAGGCAGGGTGAAGAGGTCCAAGGAGCCTGAGTTAGCAGGGATGAGCAGTGGCCAGGTAA
CCCCAGACCCATTATCCTCTGGATTTCTTTTATGTGAAACAATAAAATGTCTTGATTGAAAAAA

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FIGURE 1881

MSSGQVTPDPLSSGFLLCETIKCLVFEK

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FIGURE 1882

TTATGCAATTAGGGCTTGCTTAATTTTGGTAATTTGTCTATCATTTTGTGTGCATATCAGAAGATAAATATGTGC
CTTTGGAAGGCCTTAGCACTATTCACCTGGAGTTTTTACAGAAAATATTTGGGGGTGGCCAGCATACCCAGTTGG
TGTTAATCCTTGCTTATTATATCCAGTGCCTTGTAGAGTGCAGTAATTTGTTGAAAATCTGCTTGTGAATCTTT
GATGTATACATTATCCAAAAATAACCTGACTTTAAGGTCATTGCTATCTGGTTTAGGAGTCACATGTTTGAGAAT
TCTGGGACTATTAGCACCACACACTTTGTAATTTTATATCAGATGTTNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
CTTCTGTTTCATCTGTAGGATATGGATAACAATAGTTAAGAGTTGTGAGAATTAGAAGTTAGAGACCTTACTCAG
AATACTAGGGAGCAGGTGTTAGGGATTTTGGAGCTTTACCTTTTAAGAACTTTGTCCATATAGTAGACAACATA
CTCACCAGTGAGGACCTCAAATAGCAATATTTCTGTGGTGAAATTTGGGGATATTTATGTTAAATAAACAGCATG
TCAGTCAAGGTTGGGTTTTCTGACAAAATTTGAAAGAATTTCTCTGGATTTTGGTTTTCAGGACTGGTGTGACT
TAACATACATGGCATAGATAGTATACGTCTGTAAAGTCAGTAATTACACTTACTTGAGCACAGGTACTGTTCAAG
GTGCTGAGAATACAGTATAGACAAATTCCTACCCTTATGAAGCTGATGTTGCAAAAAA

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FIGURE 1884

GGAAACTGAAAACACACCTGCAGCATCTCCGGTGAAAGGAGCGAAGAACACGGACTGGGAGCACAAAGAGAAGT
GCTGTGCGCGCTGCCAGCAGGTGCTGGGGTTCTGCTGCACCGGGGCGCCGTGTGCCGGGGCTGCAGCCACCGCG
TGTGTGCCCAGTGCCGAGTGTTCTTGAGGGGGACCCATGCCTGGAAGTGCACGGTGTGCTTCGAGGACAGGAATG
TCAAAATAAAAACCTGGAGAATGGTTCTATGAGGAACGAGCCAAGAAATTTCCAAGTGGAGAAGGTGAGTGCACCA
GATATTCTGAAACCTCTCAATCAAGAGGATCCCAAATGCTCTACTAACCCTATTTTGAAGCAACAGAATCTCCCA
AGTCCGGCACCCAGTACCATATTCTCTGGAGGTTTTAGACACGGAAGTTTAATTAGCATTGACAGCACCTGT
A. A. AGATGGGCAATTTTGACAATGCTAATGTCACTGGAGAAATAGAATTTGCCATTCAATTATTGCTTCAAAACC
CATTCCTTTAGAAATATGCATCAAGGCCTGTAAGAACCTTGCCTATGGAGAAGAAAAGAAGAAAAAGTGAATCCG
TGTGTAAGACCTACCTGTTGCCCCGACAGATCCTCCAGGGAAAGCGCAAGACTGGAGTCCAAAGGAACACCGTG
GACCTTTTCAGGAGACCTTGAAGTATCAGGTGGCCCTGCCAGCTGGTGAACCGGCAGCTGCAGGTCTCG
GCGATCTGGGCACGCTGGCCCGGAGAGTGTTTCTTGAGAGAAGTGATCATTCTCTGGCCACGTGGGACTTT
GACAGCACAAACACAGTCCTTCCGCTGGCATCCGCTCCGGGCCAAGGCGGAGAAATACGAAGACAGCGTTCTCT
AGTAATGGAGAGCTCACAGTCCGGGCTAAGCTGGTTCTCCCTTCACGGCCCAGAAAACCTCCAAGAGGCTCAA
GAAGGGACAGATCAGCCATCACTTCATGGTCAACTTTGTTTGGTAGTGCTAGGAGCCAAGAATTTACCTGTGCGG
CCAGATGGCACCTTGAACCTATTTGTTAAGGGCTGTCTCACTCTGCCAGACCAACAAAACCTGAGACTGAAGTCG
CCAGTCTTGAGGAAGCAGGCTTGGCCCCAGTGGAACACTCATTGTCTTCAGTGGCGTAACCCAGCTCAGCTG
AGGCAGTGCAGCTTGGAGTTAACTGTCTGGGATCAGGCCCTCTTTGGAATGAACGACCGCTTGCTTGGAGGAACC
AGACTTGGTTCAAAGGGGAGACACAGCTGTTGGCGGGGATGCATGCTCACAATCGAAGCTCCAGTGGCAGAAAGTC
CTTTCCAGCCCCAATCTATGGACAGACATGACTCTTGTCTGCACTGACATGAAGGCCTCAAGGTTCCAGGTTGC
AGCAGGCGTGAGGCACTGTGCGTCTGCAGAGGGGCTACGAACCAGGTGCAGGGTCCCAGCTGGAGACCCCTTTGA
CCTTGAGCAGTCTCCATCTGCGGCCCTGTCCCATGGCTTAACCGCCTATTGGTATCTGTGTATATTTACGTTAAA
CACAATTATGTTACCTAAGCCTCTGGTGGGTTATCTCCTCTTTGAGATGTAGAAAATGGCCAGATTTTAAATAAAC
GTTGTTACCCATGTCAAAAAGGAGATAACCCACCAGAGGCTTAGGTAACATAATTGTGTTTAAACGTAAATATACA
CAGATACCAATAGGCGGTTAAGCCATGGGACAGGGCCGAGATGGAGACTGCTCAAGGTCAAAGGGGTCTCCAGC
TGGGACCTTGCACCTGGTTTCGTAGCCCCTCTGCAGACGCACAGTGCCTCACGCCTGCTGCAACCTGGAACCTTGA
GGCCTTCATGTCAATGCA

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FIGURE 1885

MRNEPRNFQLEKVSAPDILKPLNQEDPKCSTNPILKQONLPSSPAPSTIFSGGFRHGSLISIDSTCTEMGNFDNA
NVTGEIEFAIHYCFKTHSLEICIKACKNLAYGEEKKKCNPYVKTYLLPDRSSQGKRKTGVQRNTVDPTFQETLK
YQVAPQQLVTRQLQVSVVHLGTLARRVFLGEVIIPLATWDFEDSTTQSFRWHPLRAKAEKYEDSV PQSNGELTVR
AKLVLP SRPRKLQEAQEGTDQPSLHGQLCLVVLGAKNLPVRPDGTLNSFVKGCLTLPDQQLRLKSPVLRKQACP
QWKHSFVFSGVTPAQLRQSSLELTVWDQALFGMNDRLLGTRLGSKGDTAVGGDAC SQSKLQWQKVLSSPNLWTD
MTLV LH

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FIGURE 1886A

CAACTACGGCTAGGTACGAGGCTGGGTGTCGGAGGCTCCGTTGCCTGCTCCCGGAGGGAGACGCGCTGCCGAGGA
GAACCCAGCGGGAGAACATTTTCAGGATAGGAATAGGCCAAGTGCTGAGAAGATGAGTCTTAGGATTGATGTGGAT
ACAAACTTTCTGAGTGTGTTGTAGATGCAGGAAAAGTCACCCTTGGGACTCAGCAGAGGCAGGAGATGGACCCT
CGCCTGCGGGGAGAAACAGAATGAAATCATCCTGCGAGCAGTATGTGCTCTGCTGAATTCTGGTGGGGGCATAATC
AAGGCTGAGATTGAGAACAAAGGCTACAATTATGAACGTCATGGAGTAGGATTGGATGTGCCTCCAATTTTCAGA
AGCCATTTAGATAAGATGCAGAAGGAAAACCACTTTTTGATTTTTGTGAAATCATGGAACACAGAGGCTGGTGTG
CCACTTGCTACCTTATGCTCCAATTTGTACCACAGAGAGAGAACATCCACCGATGTCATGGATTCTCAGGAAGCT
CTGGCATTCCCTCAAATGCAGGACTCAGACTCCAACGAATATTAATGTTTCCAATTCATTAGGTCCACAGGCAGCT
CAGGGTAGTGTACAATATGAAGGTAACATAAATGTGTGCTGCTGCTTTATTTGATAGAAAGCGGCTTCAGTAT
CTGGA AAAACTCAACCTTCTGAGTCCACACATGTTGAATTTGTAATGTTCTCGACAGACGTGTACACTGTGTT
AAAGACAGACTTCCGAAGTGTGTTTCTGCATTTGCAAACTGAAGGAGGATATGTATTTTTTGGTGTGCATGAT
GAGACTTGTCAAGTGATTGGATGTGAAAAAGAGAAAATAGACCTTACGAGCTTGAGGGCTTCTATTGATGGCTGT
ATTAAGAAGCTACCTGTCCATCATTTCTGCACACAGAGGCCTGAGATAAAATATGTCCTTAACCTTCTTGAAGTG
CATGATAAGGGGGCCCTCCGTGGATATGTCTGTGCAATCAAGGTGGAGAAATTCTGCTGTGCGGTGTTTGCCAAA
GTGCCTAGTTCTTGGCAGGTGAAGGACAACCGTGTGAGACAATTGCCACAAGAGAATGGACTGCTTGGATGATG
GAAGCTGACCCAGACCTTTCCAGGTGTCCTGAGATGGTTCTCCAGTTGAGTTTGTCTATCTGCCACGCCCCGCAGC
AAGCCTGTGTGCATTACATAAGAAATTCGGAATGTCTGAAAGAGCAGCAGAAACGCTACTTTCCAGTATTTTCAGAC
AGAGTGGTATATACTCCAGAAAGCCTCTACAAGGAACCTTCTCACAACATAAAGGACTCAGAGACTTAATAAAT
ACAGAAATGCGCCCTTTCTCTCAAGGAATATTGATTTTTTCTCAAAGCTGGGCTGTGGATTAGGTCTGCAAGAG
AAGCAGGGAGTCATCTGTGATGCTCTTCTAATTTCCCAGAACAAACACCCCTATTCTCTACACCATCTTCAGCAAG
TGGGATGCGGGGTGCAAGGGCTATTCTATGATAGTTGCCTATTCTTTGAAGCAGAAGCTGGTGAACAAAGCGGC
TACACTGGGAGGTTATGCATCACCCCTTGGTCTGTGTGCTGAATTCTGATAGAAAAGCACAGAGCGTTTACAGT
TCGTATTTACAAATTTACCCTGAATCCTATAACTTCATGACCCCCCAGCACATGGAAGCCCTGTTACAGTCCCTC
GTGATAGTCTTGCTTGGGTTCAAATCCTTCTTAAGTGAAGAGCTGGGCTCTGAGGTTTTGAACCTACTGACAAAT
AAACAGTATGAGTTGCTTTCAAAGAACCTTCGCAAGACCAGAGAGTTGTTTGTTCATGGCTTACCTGGATCAGGG
AAGACTATCTTGGCTCTTAGGATCATGGAGAAGATCAGGAATGTGTTTCACTGTGAACCGGCTAACATTCTCTAC
ATCTGTGAAAACCAGCCCTGAAGAAGTTGGTGAGTTTCAGCAAGAAAAACATCTGCCAGCCAGTGACCCGGAAA
ACCTTCATGAAAACAACCTTTGAACACATCCAGCACATTATCATTTGATGACGCTCAGAATTTCCGTACTGAAGAT
GGGGACTGGTATGGGAAAGCAAAGTTTCATCACTCAGACAGCAAGGGATGGCCAGGAGTTCTCTGGATCTTTCTG
GACTACTTTTCAGACCTATCACTTGAGTTGCAGTGGCCTCCCCCTCCCTCAGACCAGTATCCAAGAGAAGAGATC
AACAGAGTGGTCCGCAATGCAGGTCCAATAGCTAATTACCTACAACAAGTAATGCAGGAAGCCCGACAAAATCCT
CCACCTAACCTCCCCCTGGGTCCCTGGTGATGCTCTATGAACCTAAATGGGCTCAAGGGTGTCCAGGCAACTT
AGAGATTATTTGAAGACTTGAACCTGGAGGAGATACTGATCTATGTAGCGAATAAATGCCGTTTTCTCTTGCGGAA
TGGTTATTCTCTGAAGGATATTGCTGTGCTTTTCACCAAAGCAAGTGAAGTGGAAAAATATAAAGACAGGCTTCT
AACAGCAATGAGGAAGAGAAAACGTCTCAGCTCCATGAGGAGTCTGATCTGTTACTACAGATCGGTGATGCGTC
GGATGTTCTAACCGATCACATTGTGTTGGACAGTGTCTGTCGATTTTTCAGGCCTGGAAAGAAATATCGTGTGTTGG
AATCAATCCAGGAGTAGCCCCACCGGCTGGGGCTACAATCTTCTGCTCTGTTTGGCTTCTAGGGCAAAAAGACA
TCTGTATATTCTGAAGGCTTCTGTGTGACAGGAACCCCAAGCCTAAGAAACAATTAAGTGGTTCTCATCTCTAAT
TAAGTGTGAAACCATTTAATCCAAACATGTAAGCACACACTCACTTATTAAGTCACATACTTTTCTAGGTGCTGG
GGATTGAGAACGAATCGATGTAAGATTCTCTCTTTAGGGCAGAGACAGACCACTGACAAATACACAGATAGACAA
GGAATTTCCCATGGTAAAAAGGGATATCAGTAATTAGAGGACCGTGAGACTCAGAGANNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNTGTCCGNGNGNGNACGTGCACATGTGTGTAGGTAGATGGAGGGGGTGATT
ATTTTGGGTGGTCAGGGAAGTGCTCAGTGAGGGAAGAACTTGTCATGAGAATCTCTGAGCGTGCCAGGCAGACTC
GGATATTTTTATAAATTTTAAACATGGCCACTTGAGAAGAGCTTGAATGGGACGTGCAGGGAGAATGGGAAGGA
TGGAGCAGGTAGCTCATCTGGCCTTGTAGGTGCCGGAACGGGAAGACATGTTTTGAAATGTAAGATCACAGAC
TGTTTTTTGCAAGACCACATTATATTACTTTTATTATTTTCTGCTTTTTCTTTTAAACGACATTAGTGTTTTTGATC
ACTATATTTTAAATGCTTTTTGTGAGCCTTTTGGTTATGTGGAATCTGTTTCTTAGCTCTGATTTTTTTATTCTT
ATGGAGCGTCTTAGGTTACTACATGAAGGTAAGACTGCCACAGTCCCCCAGGGAGGCACACTGTGTTTTACTGAT

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FIGURE 1886B

TGATTTGAAGATGATAGAGAGCCTAGGGGGATGAGTCTATTGGACTCAAAGGTTACATTTTGTTCATTTAA
TTAATAATCAACAAAACGACAAAGTCAGTTTAATATCTTTCTTCTGCTGAGTCTTCAGGATGTTAGCTAGTCTT
TCAAAAGCCATTGCTACAAAAGTGCAAATTTCTCATTTCCTGTGGGTCTCTAGAACTCTCTCAATATTTAAAGC
CAAACAAATCCATCTTTTCTGAGAGACAGAACTAAAAAATTCAGAGTTAATTCACTATTAACAGCAAGGCC
CTGCTATTTCCCAAGAATAAAGAAATTTAAATTCCTCATTGTAAGAAGTATGAACTTGAAGCTAGAATTGGTTTA
TTTCTGGCAGCTACTTACAATATTAAGAACTTTACTTTTTAAATTTGAGACAATTTACAGGAAAGCAAGAAAT
AGTCTATTGTGAAATGTTTTTACAATACTTGGAAATATACTGCAATCACTAGTAAGTAGAGACACATTTAAGA
TAAATGATTAATAAAACAATTGGTAATTCTGAATAAGGATCTGAATAAATCCAGATCACAGACTGTTCCCTTAC
CAATATGTAAAGAATGTGCAAAATTCGTAAAAATATACCCAAAATTTACCAGCAACAGAGAAGCAAAGAATGG
AGTTCAACCTTACACTATAAACATCTAATAGATATGTATGAAAATTTAAAACTAGAAAAGGTTGGGCATGGTGG
CTCATGCTTGTGATCCCCAGGACTTTAGGAGGC

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FIGURE 1887

QLRLGTRLGVGGSVACSRRETRCRGEP SGRTFQDRNRPSAEKMSLRIDVDTNFPECVVDAGKVTLGTQQRQEMDP
RLREKQNEIILRAVCALLNSGGGIIKAEIENKGYNYERHGVGLDVPPIFRSHLDKMQKENHFLIFVKSWNTEAGV
PLATLCSNLYHRERTSTDVMSQEALAFKLCRTQTPTNINVSNSLGPQAAQGSVQYEGNINVSAAALFDRKRLQY
LEKLNLPETHVEFVMFSTDVSHCVKDRLPKCVSAFANTEGGYVFFGVHDETCQVIGCEKEKIDLTSLRASIDGC
IKKLPVHHFCTQRPEIKYVLNFLEVHDKGALRGYVCAIKVEKFCCAVFAKVPSSWQVKDNRVRQLPTREWTAWMM
EADPDLSRCPMVQLQLSLSSATPRSKPVCIHKNSECLKEQQKRYFPVFSDRVVYTPESLYKELFSQHKGLRDLIN
TEMRPFSQGILIFSQSWAVDLGLQEKQGVICDALLISQNNTPILYTI FSKWDAGCKGYSMIVAYSLKQKLVNKG
YTGRLCITPLVCVLNSDRKAQSVYSSYLQIYPESYNFMTPQHMEALLQSLVIVLLGFKSFLSEELGSEVLNLLTN
KQYELLSKNLRKTRELFVHGLPGSGKTI LALRIMEKLRNVFHCEPANILYICENQPLKKLVSFSSKKNICQPVTRK
TFMKNNFEHIQHII IDDAQNFRTEGDWYGKAKFITQTARDGPGVLWIFLDYFQTYHLSCSGLPPPSDQYPREEI
NRVVRNAGPIANYLQQVMQEARQNPPPNLPPGSLVMLYEPKWAQGCPRQLRDY

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FIGURE 1888

GTCCTGAWCACCGCACTCCTCATCGTCCTCACCTACCCTGCCTGGACCTTCATCGACTGCCTGGACTCGGCCAGC
CCCCTCTTCCCCGTGTGTGTCATAGTTGTGCCATTCTTCCTGTGTTACAATTACCCTGTTTCTGATTACTACAGC
CCAACCCGGGCGGACACCACCACCATTCTGGCTGCCGGGGCTGGAGTGACCATAGGATTCTGGATCAACCATTTC
TTCCAGCTTGTATCCAAGCCCGCTGAATCTCTCCCTGTTATTGAGAACATCCCACCACTCACCACCTACATGTTA
GTTTTGGGTCTGACCAAATTTGCAGTGGGAATTGTGTTGATCCTCTTGGTTCGTCAGCTTGACAAAATCTCTCA
CTGCAAGTATTATACTCATGGTTCAAGGTGGTCACCAGGAACAAGGAGGCCAGGCGGAGACTGGAGATTGAAGTG
CCTTACAAGTTTGTACCTACACATCTGTTGGCATCTGCGCTACAACCTTTGTGCCGATGCTTCACAGGTTTCTG
GGATTAMCCTTGAGTCTCAAACAGTTGGAACTAGCCCACTGGACATGAAAGCCAAGACATAGGAAAGTTATTGGT
AGGCAAATCTTGACAACTTATTTTTCTTTAACAACAACAAAAAGTCATACGGCTGTCTTGCTACTACCAGATAAA
TGATGCTGCTGTGTGAAAGGAAAAAAAAAAAAAAAAAACTCXAGGGGGGGCCGGTAACAAATTCCCC

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FIGURE 1889

VLXTALLIVLTPAWTFIDCLDSASPLFPVCVIVVPFFLCYNYPVSDYSPTRADTTTILAAGAGVTIGFWINHF
FQLVSKPAESLPVIQNIPLTTYMLVLGLTKFAVGIVLILLVRQLVQNLSLQVLYSWFKVVTRNKEARRRLEIEV
PYKFVITYTSVGICATTFVPMLHRFLGLX

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FIGURE 1890

GACCGCTGACCTAGAGGGAGTTATGCACATGGGCTTATAAGGTTAGCCAAGAGAAAGGACAAGAAGACCCAAAGT
CGGCAAGCAAATTTATTAACCTGCTGGGCTGCTCTACAGAAATCTGAGGAGGCAGACACCGGGCTTACAGGCTAA
GGGGTATAAGTAGGTCTGCAGGGGTTTTGTGTGTGTGTGCGGGGGTGTGCGGGGGGCAAGGCCATTTGTGGAGAC
TTTTCTCCAGTATGGCCACATCCTGCAGTTTGTGAGTTTTTGCCCCGCCTGGCTCAGGGTACCAGGATGTGG
TTTAGCTTAGGGGTGGTTATAGTGGCACCTAAGTTCTGGGAACCTGCGGTGGGGGCGACCTTTTGGACGAAAAAT
AAGCTGCAGGGCAGCTAGGGGAGGGGGCTTGTATATTCTCTGGGGGCAGGGTGTCCCTAACTGGGCTCAGTCG
GAAGGAACCTGACCAAAGTCTGGGCTCAGTTGGGCATCACTCAGGCTAATGGTCGTGTGCTGGATGCCATCAGAG
GGAAGTACCAATGGTAAAGTGGAAACAATGTGCAGCTTTCAACTGGGTGGAGGCTGCTATTCTGTGGACAGTGAG
ATGTTTCCTTGGCACTGTCAATAGACAATCTGCGTAGAGAAATTCCAAGCTGAAAGCCAATAATGTTATAATAAA
ATAGAGATTCTTCAGAAGATGAAAGGAATTACCAGCATGGAAATTGTGTCATAGGCTTAAGGGCTAAAGAAGAAG
CCTTTTCTTTTCTGTTTACCCTCACCAAGAGCACAACTTAAATAGGGCATTTTATAACCTGAACACAATTTATAT
TGGACTTAATTATTATGTGTAATATGTTTATAATCCTTTAGATCTTATAAATATGTGGTATAAGGAATGCCATAT
AATGTGCCAAAAATCTGAGTGCATTTAATTTAATGCTTGCTTATAGTGCTAAAGTTAAATGATCTTAATTCCTTG
CAATTATATATGAAAAATGACTGATTTTTCTTAAAATATGTAACCTATATAAATATATCTGTTTGTACAGATTTT
AACCATAAAAAACATTTTTGGAAAACCATAAA

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FIGURE 1891

TADLEGVMHMGL

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FIGURE 1892

AGCTGCAGCCACCCGCGTGCGGCACGCGCCGGCCGCTGCCCGGATCGCGGCCACCAGTGCCGCGGCCTCTCGAC
TCCCGCCCCGCGGAGCCGCGCGCGGACTGCCATCCTCCTCAATTGCTTTTTTACGATTTTTTTTGTGCATGCATT
CATTTTCTGTTCCGTTTTGTCTTTTTTAAGGCGGTGGCGGCGGCGACAGCGGCGTAAGCTCGCAGCGGGGAGGGG
GCGGCCGAGGATGCGGCGCGGGGCTGCGCTCGCTACGTCCGCTGCTGCTGCCCGGCTCGGGCCTGAGCGCCGAG
CAGGATCCCAAGTGATGGTGGTTTTCTCGGAGGGCGAGCTGAGTCCTGCGCGACTGGTTAGCACGGTGGAGCTGG
TAGCCACGCTGCTGGCTGGCGTGCGTGAACAGGTGTGGACCGCAGGATCTCAGCACTCTGACCCAAGGGGAAGC
ATGTCGAAGAAAGGCCGAGCAAGGGCGAGAAGCCCCGAGATGGAGACGGACGCGGTGCAGATGGCCAACGAGGAG
CTGCGGGCCAAGCTGACCAGCATTAGATCGAGTCCAGCAGGAAAAAGCAAGGTGGGCAAACTGCGCGAGCGG
CTGCAGGAGGCGAAGCTGGAGCGCGAGCAGGAGCAGCGACGGCACACGGCCTACATTTTCGGAGCTCAAGGCCAAG
CTGCATGAGGAGAAGACCAAGGAGCTGCAGGCGCTGCGCGAGGGGCTCATCCGGCAGCACGAGCAGGAGGCGGCG
CGCACCGCCAAGATCAAGGAGGGCGAGCTGCAGCGCTGCAGGCCACGCTGAACGTGCTGCGCGACGGCGCGGCC
GACAAGGTCAAGACGGCGCTGCTGACCGAGGCGCGGAGGAGGCGCGCAGGGCCTTCGATGGAGAGCGCCTGCGG
CTGCAGCAGGAGATCCTGGAGCTCAAGGCAGCGCGCAAGCAGGCAGAGGAGGCGCTCAGTAACTGCATGCAGGCT
GACAAGACCAAGGCAGCCGACCTGCGTGCCGCTACCAGGCGCACCAAGACGAGGTGCACCGCATCAAGCGCGAG
TGCGAGCGCGACATCCGCAGGCTGATGGATGAGATCAAAGGGAAAGACCGTGTGATTCTGGCCTTGGAGAAGGAA
CTTGGCGTGAGGCTGGGCAGACCCAGAAGCTGCTTCTGCAGAAAGAGGCTTTGGATGAGCAGCTGGTTCAGGTC
AAGGAGGCCGAGCGGCACCACAGTAGTCCAAAGAGAGAGCTCCCGCCCGGGATCGGGGACATGGTGGAGCTCATG
GGCGTCCAGGATCAACATATGGACGAGCGAGATGTGAGGCGATTTCAACTAAAAATTGCTGAACTGAATTCAGTG
ATACGGAAGCTGGAAGACAGAAATACGCTGTTGGCAGATGAGAGGAATGAACTGCTGAAACGCTCACGAGAGACC
GAGGTTTCAGCTGAAGCCCCCTGGTGGAGAAGAACAAGCGGATGAACAAGAAGAATGAGGATCTGTTGCAGAGTATC
CAGAGGATGGAGGAGAAAAATCAAGAACCTCACGCGGGAAAAACGTGGAAATGAAAGAAAAGCTGTCAGCGCAGGCG
TCTCTGAAGCGGCATACCTCCTTGAATGACCTCAGCCTGACGAGGGATGAGCAGGAGATCGAGTTCCTGAGGCTG
CAGGTGCTGGAGCAGCAGCACGTCAATTGACGACCTCTCACTGGAGAGAGAACGGCTGTTGCGCTCCAAAAGGCAT
CGAGGGAAAAGTCTGAAACCGCCCAAGAAGCATGTTGTGGAGACATTTTTTGGATTTGATGAGGAGTCTGTGGAC
TCAGAAACGTTGTCCGAAACATCCTACAACACAGACAGGACAGACAGGACCCCGAGCCACGCCCCGAAGAAGACTTG
GACGATGCCACAGCCCGAGAGGAGGCTGACCTGCGCTTCTGCCAGCTGACCCGGGAGTACCAGGCCCTGCAACGC
GCCTACGCCCTGCTCCAGGAGCAGGTGGGAGGCACGCTGGACGCTGAGAGGGAGGCCCGGACTCGGGAGCAGCTA
CAAGCTGATCTGCTGAGGTGTGAGGCCAAAATCGAAGATTTGGAGAAGTTACTGGTTGAGAAGGGACAGGATTCC
AAGTGGGTTGAAGAGAAGCAGCTGCTCATCAGAACAAACCAAGACTTGCTGGAAAAGATTTACAGACTGGAAATG
GAAGAGAACCAGCTGAAGAATGAAATGCAAGACGCCAAGGATCAGAACGAGCTGTTAGAATTCAGAGTGCTAGAA
CTCGAAGTAAGAGACTCTATCTGTTGTAAACTCTCAAACGGAGCAGACATTCTCTTTGAACCCAACTGAAATTC
ATGTAAAGCTCTCAGATGTTTTCAAGCATGTGTAAAGGGGACATGTTATAGTTTTCTTTCTTTCTTTCTTTT
TTTTTTTAAATCTGTATGTTTCAAGATAATTTCACTGCCTTAATGTGTTCTGGAGAGCGTGCTACCCAAGTCTAT
GGACATGTACCAGAGCTAATATATTTATTGCCTATGGCTGTTTTGCACTTAATAAAATAATTTGTTTTTGC

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FIGURE 1893

MSKKGRSKGEKPEMETDAVQMANEELRAKLTSIQIEFQQEKSXVGKLRERLQEAKLEREQEORRHTAYISELKAK
LHEEKTKEQLALREGLIRQHEQEAARTAKIKEGELQRLQATLNVLRDGAADKVKTALLTEAREEARRAFDGERLR
LQQEILELKAARKQAEELSNMCMQADKTKAADLRAAYQAHQDEVHRIKRECERDIRRLMDEIKGKDRVILALEKE
LGVQAGQTQKLLQKEALDEQLVQVKEAERHHSSPKRELPPGIGDMVELMGVQDQHMDERDVRRFQLKIAELNSV
IRKLEDRNTLLADERNELKRSRETEVQLKPLVEKNKRMNKNEDLLQSIQRMEEKIKNLTRENVEMKEKLSAQA
SLKRHTSLNDLSLTRDEQEIEFLRLQVLEQQHVDDLSLERERLLRSKRHRGKSLKPPKKHVETFFGFDEESVD
SETLSETSNTDRTDRTPATPEEDLDDATAAREADLRFCQLTREYQALQRAYALLQEQVGGTILDAEREARTREQL
QADLLRCQAKIEDLEKLLVEKGQDSKWVEEKQLLIRTNQDLLEKIYRLEMEENQLKNEMQDAKDQNELLEFRVLE
LEVRSICCKLSNGADILFEPKLFEM

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FIGURE 1894

CTTCAGACTCAAGACTGCAACACCGTGCCTGCCCTCTAGCTATGCTTTAAGGCAGGCCTATCAGCCCAGACTGGA
GTCATGTAATACATGGCTCTGTCTAGCTAGCTCTCCTTCCCACAAATAAGTTTTGATGATCTTACACTCATCCCTGC
CGTTAGCATTACAGGACCAATCTTCTATAGCCTATACGCCACACTGGTCTAGGACAGCACCTAAATAATACTCATG
CTATAAAAAATTTCATCAAGTTATATATTTTTTAAAAACATCCCTAAAATTATCTTTTTCTTTACTGAAAAGAATT
TCAGGATCCCCTCTCTCTCACTGCCTCTCTTCACACACACCTACCTTAGTTGGTCACCTATTTTGTAACATATC
TTCTTTAAAAAAGAAAGAAATGGCAGTACATGAAAACTGCTTCGTAAACAGAACTATATTATTTATATTTGT
AGCATTTTTTTCCCTTGAGGTTAATTTCTTTTGCTTCCATAACTGGAAGCCAATGATTACAGTGCCATTATATA
AGCTTATTTTCCCTCTTGGAATAGTAAATTATAAGAGGTTTGACCCAAAAATATACATCAAAATTAGGCAGTAT
TCGGTGTTTAGCCTCCATCTGCCTTGCTCTTGTCTTTAGTTGTGCAAGTAGATGCTGATGATTCTGGCAGAG
CTAAAGTAAGTAAATCATGTGAATTTATTTTTTTCTCATAAAACAGATGGCATGGTCTAGCTCTGGGCTTGTA
TGTTTCATGAAGTACATGGGTCTGAGTGCGTATTTATTTTGTGAGCCAAGGTTTATGCCCTCTTCTATAATTTTC
TTTACCGAAAATTACCTGGAGAGCTAGAACTCCATTTGTGTGAGCGTAAGAAGCTTTAGAATCTATATCCAGA
CCAAGGCCATGGAACAATGTAGATTCAGTCACTAGCGGCTTCTTTGTACTAGTCTGTACCTT
TGCTTGCTTTGGGAAGCTTCAAACCTAGGGCAGTTTATGTTTGGGAGTGACCAGTCAAATAGCAAGACAGACATA
GGCAAGGATGTAATTTTTAAAAATTTAAGTGGGGAATGGTGAAGCATGAATCAAAACAGAAAGGTAGTCTTACCTT
CTTGAACTGTAAAAATAAATACATTTGAAAAAGGCACCTCTCAACCTTCTGCGAGTCAGAATTTTGTCTGCCAC
CCCTCATTTTGAATCTCTATTCTGCATTTTTTATTCTTTTTTTTAGGAAGGAGGAAGAAAAATTTCTCCTGAAGA
ATTGATTGGAATTTAAATTAACCTTGCGTATTTTGTATTCTTTGGAATGTGATGAAGACTGATTTGAAAGGCGAG
TGCTGGATTTGGTCAGGCATAGGAAAGGAAGACATGCAGTCGCTCCTGCTAGCTCATCCCCGCCACGATGGAGAA
GTGGGGTTGCTTTCGTTGTACTTTTTTTTCAATTTGTTTCTTGCCAAGCCCAGTGGCTTCTGTTATAACATGTGGCA
GCTTCTCCCTTGAGACTGATTACAGTCCAAGTTACCATAATATTTAGGACCAGCTACAGAGACGTTTCTTCCCT
AAACCCATGCCAAATCTAAATCAAACCTATCTTCTTCTCCTTAGCCGTTCAAATAGCTCCAGCTCTTATATAAAAA
TACGAGAAATACACAGGCCTCTTTTCGTTTTATTCTGTTCAAACAGATAAAACAAACAAGGCACATCATGCCTAG
GTTGCTTTGAGCTTGATCACTTCTCCTAAAGCAGTCTTACGCTGTGTTGATTTTAAGAATTGCAACTTAGGTGT
TCTAGAACATATTCTGAGAGCATAGTCATAGTCTGTGATCTCAGAATATGTTTGCTTCTTCTAGAACATCTGAG
TTCTAGAAATTGCGTACAATAAACTGCTGTGAGTGTGCTGAGGGAAGGAAGAGTAACCTCTGACATCACTGGCCT
TCAACAGGTGTGGCGCTGAGCTTCTGGGCCTCAGAAGCCCTGACTTCTAGAGGCTGGGGGCCAGCGGGCAGGGA
GGTGATCTCATCATGGATGGCCACAGATCATCCACCTGCCAAACAGTTAACCCTGAACAAGTCATGTCAATTTAT
TTTGCTTTTAAAAAAGAAAGTCTGCAAAATAGAAAAAAGATTCTTCATAAATACATTTGTTCTGATCT
GTAAATACCCTGGTCATTTCCCTTGGCATTGATACACATAGTATAGACATATTTTAGTCATCCTTGCTCAAG
TAATTATATTCCATAACCAACTTTATTAGCATAAATTAACCTCCTCATATTTTAGCAAGAGTTACTTTCTTCA
TTGCTTAGCTTATTGTTTTGAAATATGAATTACTTCAGCACAGTTTCAATTTT

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FIGURE 1895

FR LK TATPCLPSSYALRQAYQPRLESCNTWLCQ

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FIGURE 1896

AGCCGGGTCTCGCCAGTCTCGCCCGGTGTCGTCCCCGGCCGGTGGCTAGTGGGGGTACTGTGGTAGCGGAGCCGG
GCTGTGCTAGCGGGCTGGGTAGCTCGAGGCTTCCCTAGGCGGTCTGTCAGGTCTGGGAGGGACGCTGGGTATGGGC
CGTATGAGCGGGGCGGGCGCGACTGCTATGAGCCCGCCGGAGTCGCCGCCAGGGACCTGCCACCCGGATCCCA
CCTTCCAGGAGGACGGACGTCACCCAGACGCTCGCAACTCCGGTCTCTTGACAGCGCAGCCTTCCACAGGCTCGA
ATTTTAAAGACTTGACATAAAGTCTCCGGAATTCAGATTATTAAAGTGACCCCTCATTTCACCCGGCAAAAC
TTCTCACCCAGTGTGCTATAAGATTGATAGCGATCTCCAGAACTTGGACTGGAATGCTCCTACACTGAGGGGA
TGGGGGGAAGAAGAAATGCTAAAGATTATTCAGAGTTACAGAAATCCTGTTGAAATTCCAATGCATCGTTTACT
CTTAGCGCTGGGGCTTCACAGTTTTTTTTTAAGTTGGAAATATTTACAAAATTTCCCATAGGGTGAAATCCAGAG
TTAATCCAAAACCAGAATCTTTTAAATTAAGTACATTCAAATGTGCAGATTTCTTAAACCTCATTTAGTTGAGC
TTTGATAGGTGAAACGCACGTTTTGAACAACCTCTGGTAACAAAGAAAACATTAAATTGATTATAGGTATGTTAT
ATTTAAAGACCAGTTGTGAAATTAGCTATATTGTGCTCAAAGTATGTTACTGACATTTCTCCGTCGTTAAAGGA
ACTGCTCCATTCTAGTTTTTTATAATAGTCTGTATTATGTATATAGCCTGATAGTGCTGAATTTCTGAATTGACC
TTCATCTTATTTACTCAATAATATTCATTTGACAAATACTTATTAAGTGCATATATGTGTCAGGAAGTGTACTAG
ATGCTGAGGATATAGCAGTAAGCGCAACAGACCAAGCTAACAGCTTAGTAAAGGGTGAGGTAAACAAAAACAAA
AAGTATTCAAAAAATAAACTAATTTTTATCTTAATTTAAAAAATTACAAATTTTTAAAAATCACAAATTGGTAT
CCATGTATAATTCATTTCCGTGCATTTCTTGTGTGAAGAAAGCTCAGTAAAGTATTTCTTAGGTTTCTGTAAT
TCTAGTTCTCTACTCGATTTTCTTCTGCAATTTCTGAGCCAGAACCCTTCTTAGAAGGCATATTAGAGACTTTA
AAAGTTAAATAATAAAATAAATCTCTTTTAAACAGC

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FIGURE 1897

MSGAGATAMSPAGVAAQGPATRIPPSRRTDVTQTLATPVS

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FIGURE 1898A

GGGGGGGCTCGTGCGTTCTGCGCCCGCCGCGGGTGCAGCGCCGCTGGCGATTGCTCCTCTGCGCGCGGTG
GCGGTGCTGCTGCCCTCTTGCCCTCCGGGCCCCGGGGCTGCAGGGGCCAGAGCGAGTGCGCCTCCTGCCCGCGGACCGC
GGCAGCCCAGAGCAGAAACGGCTTACAAAATATACAGATCTTGGTAGACAACGTGGCTGCAGGCTGTTGAATTGG
AATTCCCTGTGGCTGTCCGAAGGCAGGGTGTCCGGAGAGCGGTGGGCTGACCTGTTTCTACACCTTGCATCATGC
CAGCTTTGTCAACGGGATCTGGGAGTGACACTGGTCTGTATGAGCTGTTGGCTGCTCTGCCAGCCCAGCTGCAGC
CACATGTGGATAGCCAGGAAGACCTGACCTTCTCTGGGATATGTTTGGTGAAAAAGCCTGCATTTCATTGGTAA
AGATTTCATGAAAACTACACTACTATGAGAAGCAGAGTCCGGTGCCCATTTCTCCATGGTGCGGCGGCCTTGGCCG
ATGATCTGGCCGAAGAGCTTCAGAACAAAGCCATTAAACAGTGAGATCAGAGAGCTGTTGAACTACTGTCAAAAC
CCAATGTGAAGGCTTTGCTCTCTGTACATGATACTGTGGCTCAGAAGAATTACGACCCAGTGTGCTCCTATGC
CTGAAGATATTGACGATGAGGAAGACTCAGTAAAAATAATCCGTCTGGTCAAAAATAGAGAACCCTGGGAGCTA
CCATTAAGAAGGATGAACAGACCGGGGCGATCATTGTGGCCAGAATCATGAGAGGAGGAGCTGCAGATAGAAGTG
GTCTTATTTCATGTTGGTGATGAACCTTAGGGAAAGTCAACGGGATACAGTGGAGGATAAAAGGCCTGAGGAAATAA
TACAGATTTTGGCTCAGTCTCAGGGAGCAATTACATTTAAGATTATACCCGGCAGCAAAGAGGAGACACCATCAA
AAGAAGGCAAGATGTTTATCAAAGCCCTCTTTGACTATAATCCTAATGAGGATAAGGCAATTCATGTAAAGGAAG
CTGGGCTTTCTTTCAAAAAGGGAGATATTCTTCAGATTATGAGCCAAGATGATGCAACTTGGTGCGCAAGCGAAAC
ACGAAGCTGATGCCAACCCAGGGCAGGCTTGATCCCCCTCAAAGCATTTCAGGAAAGGAGATTGGCTTTGAGAC
GACCAGAAATATTGGTTTCAGCCCCCTGAAAAGTTTCCAACAGGAAATCATCTGGTTTTAGAAAAAGTTTTCGTCTTA
GTAGAAAAGATAAGAAAAACAAATAAATCCATGTATGAATGCAAGAAGAGTGATCAGTACGACACAGCTGACGTAC
CCACATACGAAGAAGTGACACCGTATCGGCGACAAACTAATGAAAAATACAGACTCGTTGTCTTGGTTGGTCCCG
TGGGAGTAGGGCTGAATGAACTGAAACGAAAGCTGCTGATCAGTGACACCCAGCACTATGGCGTGACAGTGCCCC
ATACCACCAGAGCAAGAAGAAGCCAGGAGAGTGATGGTGTTGAATACATTTTCATTTCCAAGCATTGTGTTGAGA
CAGATGTACAAAATAACAAGTTTATTGAATATGGAGAATATAAAAACAACTACTACGGCACAAGTATAGACTCAG
TTCGGTCTGTCTTGGCTAAAAACAAAGTTTGGTTGGTGATGTTTTCAGCCTCATACAGTGAAGCATTAAAGGACAC
TAGAATTTAAGCCCTATGTGATATTTATAAAGCCTCCATCAATAGAGCGTTTGAGAGAAACAAGAAAAAATGCAA
AGATTATTTCAAGCAGAGATGACCAAGGTGCTGCAAAACCCCTTCACAGAAGAAGATTTTCAAGAAATGATTAAAT
CTGCACAGATAATGGAAAGTCAATATGGTCACTTTTTTGACAAAATTATAATAAATGATGACCTCACTGTGGCAT
TCAATGAGCTCAAAACAACTTTTGACAAATTAGAGACAGAGACCCATTGGGTGCCAGTGAGCTGGTTACATTCA
AATAAGAGAAATTTCCATAATTGTCTTTTTCTATAGAGTGCATGATGAAATCAATTACAGTTTTGGTAGTAGGG
TTTTTAAATCTATATCACTGTATAGATGTACAATCTTGGTTCAAGTTGAATGCTGGTTTTGTTGTATCTTTTT
ACAGCCTTATTTCAAACGCCATGTGTTAGTATAAGATCCGAAATCAAAATATGCACAGTACTGTATTCTAAGCAA
AACCTCAAACCTTCTCGTTGTCTTCAATACCGCTCTATCTCCAAGATGAGGCTGAAATTTTTCAGAGAGACTTAGC
TAGAGGCTTAGTATGTATGGGAGTTTACGCGCTTCTGCTGGTCTCAGGTGTGGCTGCTGCTGTGCGAGTTTGAATGT
TAGCTGTTGAAGGTATCAATTACGACCCATGAGCAGCTCCAGACAGACAGGTGAGCTCTGCTGTTTCTGGGTGG
ATCATCACAGATTTAGCCGGGCAGGCAGTAAGGTGTCTCTTACTATTCAAAAAGTGATAGACTTTCTTACATATT
CGCAATACGTTACAGTGTGTGCATTTTTAAATAAATTCTTAAAGGAGTAAGTGAATTTTACCTTGAGTGAATGG
CCTTCATAATATAGCTTGAGAAGTCTTTTTGAGTACCTGTGAGTCAACAACATTTAATAAGGGGAAAGTAGA
CTTTTAAACAGTTATTATATATGTAACGAAAAGCCTTTTCTTTGGGATTAATATAAGTAAGAAATGGTAGCCTTG
GCAAGAAATGATTACAAAGGATATTTTTATTGTAATTCCTCAGAAGACAATTTATGAAGTCACCCAAAATGTTA
TTTTAGCTGGTTTTGGATTTTTCCAATAAATTAGAAGAAGGATTTCTATTCTAAAAATGTAACCTGTTTTAC
ATATTACTGATACAATTAAGATTATTTTTCATCTATGTGCAATAGATCACCCCTCTTTAAATTGCTCTAAGATT
TATTTTAGAAAACTTTTTCATGTGATGTTATTTCTTTGTATCAAAATGCTTGTTAACACTGTCCAGACACCATCC
TAACCTTGCCATTGTTAAAGAAGTTTAGGAAAGACTCTTATATTGTAATAATTAGATGGGTTCTCTCACTTTTC
TTTGATACTACTGATTTTCAGCAAGTGAATTATATAATTCAAATGCTAGAAATGTCTATCCGTTCTATAAGAGA
GCATATCCTGCCGTTCTTGCATGCAGTGAAGCCCTGCCCGTCAAAAATCATTGCATCTGTGACTTTCAAAGTGGA
AAAAAAATGTTATTTTTTTGTTGATTGTAAAGAGAGTTAAATGTCATGTGAAAAAAATAGAATGTAGTAAA
ATTCTATATATTTATGAAATATTTTAAAGGCATATTTTTTAAATATCAAACGGGGCTATTCTATAAAATAAAGT
ATTGTATGTCAAGATGTCCTAATTTAAAGAGTAGTTTTATAAATCATGGTCAACATTCCATGTAAATATTTGAG
CTTTACAAAGATAGATCCAAGTGTGCGATCTGTGCACTGCACATTTGATAGCATTATTCAGTGGTTTTCTTCTCAT

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FIGURE 1898B

ACTTGTCAAGTTCATATTAGAAGCAGAGACAAAAACCACTCCAATGGCCTTGACACATAGTCACACCAAAATAGA
TAATCAGACTAAGTATTATATAACAACGTGATCCAGACAGTGAGTTCTAAGTGTATTAATTAAATAGCAAAAAAT
TTTGTTTTTTAAAAAATGAAAGAGGGAGGGTTGCCAACCTGAAGTCTTAAGTAGATTGTTTGGGTAGCATATTTCC
TTCTTTGAACATTGTCTGAAATTTTCTATAAATCAAGACTTCTTGTACAAAGAATGATGGGACATATGTAATAAT
TCAGGCAATCACCTGAGTAATTTAGGCAGTCCAAATTCCTTACCCTGAAATACCCACATTTTAAAAAAATTGCAG
ATAATTGCTTCAGTTATTTACTTTGGGGACAGAGATATAGTGTAAAGTGGGAGAACTGAGTCCTTTTTTGGTGG
TGGTAATAATAAGATGTTATAAAAAATATAACATTTTAAAAAAGAAAGGTCCAGACCTTAAGCGCAGAGCTAGAAC
AATATTTTTTAAATAATGGGGGGAAAAGGGGGCACTTTGGTAATTTTAGAAATCAGGTAGTATACNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
ACATGGCCATCTTGATGCTTAGAAAGATAATTGATTAAAATTTAATAAGGCAGGGCCAACCTCCGAGAGTTTCATTG
ACAACGGCAGCAAAAAGGCCCTGAATTCGTACTTTCTTCCCCAGCCTCCTTCTCCAGCAAGGAGAATAGCACT
CCTCCCTCCAGAAGCCAGCTCCCTAAGTTGGAGCCACTATGTAAGAGAAGAGGAACGTTCACTTTTTAAATTTCA
TATATTTAAAAATCAAGACCAAAAAGTAAATTCGTACTCCTATTATTGACTGTAGTCAATCAAACATAAAAAGG
TGAAAGTAAAATTTAATTTTTTACCCTTATTTTACTGACCAATATGGAAGTTCTTGGTATCTTTAAGGCTGACCT
TCCTGGTATTGTGTAATGATTGAATGTATCTAACTGTAATAATTTGAACTGACAAACATAACCTTCTCAGACT
TACAAAACATATGTTCTTTCTAAAGATACAGATTTTTATTATTTTATTTTGGACTAGGAAGGATTTATAAATAAATG
TAATGAAAAATCTTTGATCTTAATAAAGTACCTTCAAACAGTGTGTGTAATTTGAAATTTGTTTTGCACTT
GGATATTCTATTTTATTATACTACTATTGTGATCTATTCCATTATACTATTTCCCATGGTAGAACAAATTATATT
TTCTACTGTGATATGAAGTGATGTAATTGAACCTGCCATGTCTAAAAATTAAATTTTCATATTTTTTTC

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FIGURE 1899

MPALSTGSGSDTGLYELLAALPAQLQPHVDSQEDLTFLWDMFGEKSLHSLVKIHEKLHYYEKQSPVPILHGAAAL
ADDLAEELQNKPLNSEIRELLKLLSKPNVKALLSVHDTVAQKNYDPVLPMPEDIDDEEDSVKIIIRLVKNREPLG
ATIKKDEQTGAIIVARIMRGGAADRSGLIHVGDELREVNGIPVEDKRPEEIIQILAQSQGAITFKIIPGSKEETP
SKEGKMFIKALFDYNPNEDKAIPCKEAGLSFKKGDILQIMSQDDATWWQAKHEADANPRAGLIPSKHFQERRLAL
RRPEILVQPLKVSNRKSSGFRKSFRLSRKDKKTNKSMYECKKSDQYDTADVPTYEEVTPYRRQTNEKYRLVVLVG
PVGVLNELKRKLLISDTQHYGVTVPHTTRARRSQESDGEYIFISKHLFETDVQNNKFIEYGEYKNNYYGTSID
SVRSVLAKNKVCLLDVQPHTVKHLRTLEFKPYVIFIKPPSIERLRETRKNAKIISSRDDQGAAPFTEEDFQEMI
KSAQIMESQYGHFLDKIIINDDLTVAFNELKTTFDKLETETHWVPVSWLHS

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FIGURE 1900

GTCTTGTTATTCTTGTTCTTTATTATTCAATATAAAATTTTAGAAGCTGAATTTGAAAAGATTTGGATTGGAAT
TTCATTAAATCTACAGGTCAATTTAGGGAGAGTTGATAATTTTACAGAATTGAGTCATCTGGTGTTCCAATAAGA
ATAAGAGAACAATTATTGGCTGTACAATTCTTGCCAAATAGTAGGCAAAGCAAAGCTTAGGAAGTATACTGGTGC
CATTTTCAGGAACAAAGCTAGGTGCGAATATTTTTGTCTTTCTGAATCATGATGCTGTAAGTTCTAAAGTGATTTCT
CTTGCTTTGGACACATGGTGTTTAATTACCTACTGCTGACTATCCACAAACAGAAAGAGACTGGTCATGC
ACAGGGTTGGGGTATCCAAGATAATGGAGCGAGGCTCTCATGTGTCTAGGTTACACACCGAAAAATCCACAG
ATTCTGTGAAGAAAGGAGGCTATGTTTATGATACAGACTGTGATATTTTTATCATAGCCTATTCTGGTATCA
TGTGCAAAGCTATAAATGAAAAACACAGGAAGTTGGCATGTGAGTCATTGCTCCCCCTAAATGACAATTAATA
AAGGAACATTGAGACAGAATAAAATGATCCCCTTCTGGGTTTAATTTAGAAAGTTCCATAATTAGGTTTAATA
AATAAATGTAAATTTCTATGATTAAAAATAAATTAGCACATTTAGGGATACACAAATTATAAATCATTTTCTA
CTGCTAAAAACAAGCTCAGGTTTTTTTCAGAAGAAAGTTTAATTTTTTTCTTTAGTGGAAGATATCACTCTG
TGAAAGTTTTGATGTGAGGGGCGGATGACTATAAAGTGGGCATCTTCCCCACAGGAAGATGTTTCCATCTGT
GGTGAGAGGTGCCCACCGCAGCTAGGGCAGGTTACATGTGCCCTGTGTGTGGTAGGACTTGGAGAGTGATCTTT
ATCAACGTTTTTTATTTAAAAGACTATCTAATAAAACACAAAACATGATGTTTCACAGGAAAAAAGAAT

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FIGURE 1901

MFTGKKE

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FIGURE 1902

TACGAACCCCTGAGGGCCTACTTGGCTAGGTGCTCACGGTCTGGTAGAGGAGACAAAGATACAAAAACAGAGTCAC
AGTGTGTAATGAGTGCCATGGGAGCATAAAAACAGCATGCCGAGGGCTTGTGACACTCAACCGCCACCCCGCGCA
GCTTCCAATGGAGGCCAAAGTCACAATTGACCCCAATAGACAGGCTTGACAGAGTTAGTTGGATGGGAGGCAGGTG
GGGCAGCCTGTCCAGAGGGCGCAGACCTGTGTGTGTGGGGAAGGGGTGATGGGAGATGCAGACTCGGCAGTGCTTG
TTAACAGAGGTGTGAATGCCGCGCCTTGCTTGCCCTGAAGATTTCACCCAGGATCCTGACAAAAGTCAGATGTGC
ACTTCAGAAAGGCCAGGCGGGCTGCAGTGAAGAGAATGACTCGAGGGGGTGCGGGTGTGGGACAGGCCATCGAGG
CAAGGAGGCCAAATGGAAAGCTTTGGTCAGGACACAGGTGGTGTATGGATTTCGGGGGAGAAATGGGGGAGGGTGAC
GCAGGCAGAGTGGCCAGGTTATCAAGTGGCATCATTACCACAAAATGCAGCCTTATGGCTGACGAGCTACCTTA
CTGAGCATATTCCTGCCTCTACACCAGAGACTCACTCTGTGGTCCGGTGTACCTCGATTCTAAATTCCCTGCTT
CCTGGTGAATGATGCTATCACACTTTAGAAACCTGGCCAATAAATGCTTTGAAATTTAAGGATAGCTATCCTGAA
AAAATTTAATATAACCTAAATTGATAGTCTAATGACATCAGTATTCAGAAGAGGCATTCTATTTAGCAAGTGGT
TTTCAGAAAAAATAAGTAACCTGAGTTTTCTCCTGCCACTCTCCCCCTCTTGCTTTTATGCTGCAAAA
AGAGCTTGTGGCTTGCCCTGACACACCGTGTGTCTCTGCCTTCGAAGATCTAGCTCCCTCAGCCTCCCCACGTT
GTCCACCTCTCCAATACCATTGCTCCACTGGGAAGCTGGCCCGGAGGTGCTCTACCACGTTTCATCTCTCGCAGCC
CAGGGCTGTCTTTAACGTTACAGNGACNCAGATNTCAAAGNNTTGCAATTTATTTGGCTTTTCATTAATTTGCCGG
AAGCAAGGGAGGGTAGATACAAAGTACTCCTCTACCCTGTTATTTNCCTTGCTGTTAAATGTAAAGAAGACTG
ATGTAAGAATCTCTGCCTTCCACCAGTCATAACCATGGTATGCACAGAGCTTATGAATCATCTTCTAAATTCACA
GCTAGTTTTAAATTTAGCTTCCAGGCTAGATCTGCAGGAAATGATTGGGAGATCGTAAGTGTATGGAGTGAAT
ATGAAGTTACTTACCAGATCCCATAAAGTTAGCTCAGGGAATCCTGAGGAAGGTGTCACTCAGAAAGCTGCTTTC
AAAGCTGAGTCAGACCTGCATGGTGTATTACCTCCATTGTGTTACCATGCCAAACATATAAATAGCTTCAAAG
TGAGTTCAGATTAAAACACAGAAAAATCTTTGGATATATTCACAGGCCAGTGGGGGTGATGTAACAAGTCAGCAA
GGAAAAATAAAGATATTTGAGGTACAGCCTCAACTTTTTAAGATGGATCTTGAATAAAAAGGTCTAATGAAATAT
TTTATGGTATTGCTCTCTGGGATTTAAAAAACAAGCCAAACCAAAACGAGGCACTGGAACAATGTTTAGATA
GATCACGGGTGTTTTCCAGTATGCATTTTTTAGTGCACTTACTTAACTGAGACCCTCTCATATGAACTGGAATG
TCACCACCATGTGATAAAGCGTAGACTAGCTGTGACCTAATACGTACTGATCATGACTAACGCAGAAGTCCAGGT
CACTGCGGTTGTATTTCTGTGGCCTCAATGTTCTGGGGTTAGGGTTAACAGGGATAATTCATTTCTGTGTTCAA
GTCTCTAATTTCTTCATCATGTAACTGTAAGTGGGAGCAGACTGGATTACAGCATTGCTACAAGAGAAAAACAAC
AAATAGGAACACCACCAACACCATGTGTTGGGAGCCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNACTTTTCATAAATAAATGACTCGTGTGGAGGTGTTGTATCCTTGGGGCCACTCAGTTTTATTTCAGC
CAGCTTTCCTTGGTTGTGGTTTTAATGTGTTAGGGAAGAATGAATGTATTCCCCACAGCTGGGCATCTTTGTGCT
GGATCACCTGGCCACAGCTCATGAATAGTGCAGATTATCACACCCACCCCCATGACTCCAGCAAATGTGCTGTG
GGTATAGGAGAGTATATTCAAAAAAGGCAATTAACAAAGCAACTGTCCCAACTACCAAGAAAAACAATGTGGCA
TAACCCATGATAGAACCCTCTTTTTCTTATTAGACATGAACAGAAGCTCATTAAATGCCGTCCAGTAAGTTCAA
GCCGCATAACTTACATACACTGTCAGGACCCAGAAAGAAACCTGTTGTCTTGTGATGTTATTGTTGCTTGGTTGA
CCTCATCATGT

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FIGURE 1903

RTLRLAYLARCSRSGRGDKDTKTESQCVMSAMGA

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FIGURE 1904

GCTGGCCTTTGGCTTTTTTATGTAGAAAAGGAACCTATTGAAAAGATACTGATTGGTTCCAATAACTGCTAGAAAGT
TTCTGCAAAACCAATGCTTTGAAAGTGAGCAGGAAAAGAAGAGACTAGGCTGTGGCTGGGAGCACAGCCAAAATTA
CAAAACCAGCCCAGGGATGATGATCCTGTTTCATGCACAGCCACTGTCCCCAGCACTAGGCACAGACTCTACCACT
GCCTCACTGTCTCTGCTGGACTTGGAACTTGATATTACTGTTACTGCTGCACTGTCTGNCATGNAAATGNGTTG
TCCAGGGTCCCTTCTTCATCCTTTTCATCTCTAGCTTATAATTCAAAGTCTGGGATTGAGTGGCCAATCCTAGGTC
ACATGTCCATGTCTATCTCCAAGGGGGGCTGGGAATTGAATATCTGGCATTTTCCACTTTCACTTCTTATGAAT
TAAGGAATTCTACAAATAATAGAAGTGGGATTGAGGTGGTAGGCAGACAAAAAGCCTCACAATTATCCACTACG
CCACCCCTTGATAACCTTACCCCTCATTCCTACTGTCTACTCTCAAACTGTGGAGCTACTAATGAAGATTTGTAAAC
CCTGGGCTTATGAGCACCCATTCTTTACTACAACCTCAGATTGCTCTAGAAGCTCAGTTCCCAGCACTTGGATTT
TTCCAGTAGCTGAATTCTACCTGAAGGAAGGGCAGAAACAAAGGGTGAAGAAGAGGCTATCACTTCCAAGTATCC
TGCACCCCTGGGCTCAAGACCTCACTGGGGAGGGAGTCTTTTGGGCCACCCACCAACAGCACTGGCATTATGCC
TCTCACCCCTAGACCATGGTTACACGTGGTAAAACAACCCCTTCTGGTGATACATTACAACCTCTCTAGTTTCCCC
CAAATGGCACTATGGGGAGCGGGAGCTTGCCTTTTCTCAGACTTAAAACAATAAGTTTTCCCCGTGTTTCCCT
CTAATGCTGTTTTCTTTTGACCAAGCATGTCTGAATTCTAGAGAAGTCAGGAGGAACACACCCATTCTCGGTTTG
AAGGGACTGATGTTCTGAAGTACAACCTGGGCACAGTCCCAGGCTCTTCAGGACGCTTCCTCCATTACACAGCGG
GGATGTGATTGTTACAGCGGGTGGTGTGTGCTGGCTGAGAAGCCACTGTGAATTGATTCTTCTTCTGAAGTTTAT
GTTTCTACTTTTTTGAAATGAATAAATTACAGCCAGTCCATCAAGGAAATTGC

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FIGURE 1905

MKICKPWAYEHPFLYYNSDCSRSSVPSTWIFPVAEFYLKEGQKQRVKKRLSLPSILHPWAQDLTGEGVFWATHQT
ALALCLSP

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FIGURE 1906A

CAGATCCATGTTCACTAGCGCCTTACAGAAAGTACTCAAAAAGAAGTTCGAATAGTTGGTGTGGAAGCTGAATC
GATGGATTTAGTGTGGAAGTATGCCTACACTTCCAGAGTTATTCTTACAGAGGCCAATGTTCAAGCCTTGTTCAC
TGCAGCTAGCATCTTCCAGATTCCCTTCCATCCAAGACCAATGTGCTAAGTATATGATCAGTCATTTGGACCCACA
GAATTCTATTGGGGTCTTTATCTTTGCTGATCATTATGGTCATCAGGAACCTCGGAGATCGATCAAAAGAATACAT
TAAAAAGTTTCTGTGTGTCACCAAAGAACAAGAGTTTCTCCAGTTGACAAAAGACCAACTGATAAGTATACT
AGTGACGATTTAAATGTAGACCGAGAAGAGCATGTTTATGAAAGCATTATAAGGTGGTTTGAGCATGAACA
AGGAAAGAGAAGTGCACCTTCCAGAAATTTTGTCTAAATGCATACGTTTTCTCTGATGGAAGATACCTTTAT
ACAGAAAATTCCACCTCAGTTTGCACAGGCTATAGCCAAAAGCTGTGTAGAAAAGGGACCATCCAACACCAATGG
TACACAGAGGCTTGAATGACTGCTTCTGAAATGATCATATGTTTTGATGCTGCCACAAAACACTCAGGAAA
AACCAACAGTGCCTTGTCTAGATATAGTCACAGGAAGGGTGTTTAAACTATGCAAACCACCAATGACCTGAG
AGTTGGGATTCTTGTATCACCAGATAATGACATTTACATTGCAGGAGGGTACAGGCCAAGCAGCAGTGAGGT
ATCGACCATAAGGCAGAAAATGATTTCTGGATGTATGATCATTCCACCAATAGATGGCTATCCAACCATC
TCTTCCGAGCCAGAATAGGCTGCAAACCTTGTCTATTGCTGTGGTAAAATGTATGCAATCGGAGGTCTGTTTTA
TAAAGGTGATGGGAGAAAACCTCACTAAAATCTGTTGAGTGTCTACGACAGTAGAGAGAATTGTTGGACGACTGTTTG
CGCGATGCCAGTTGCAATGGAATTTCTAATGCTGTGGAGTACAAAGAGAAGATCTATGTTTTACAGGGAGAATT
TTTTCTCTTCTATGAGCCTCAAAAAGACTACTGGGGTTTCTTAACCCCCATGACTGTGCCTAGAATCCAGGGCTT
AGCAGCTGTATACAAGGACTCTATCTACTACATAGCTGGAACCTGTGGAAATCATCAACGTATGTTTACTGTAGA
AGCCTATGATATTGAGCTAAATAAATGGACTCGTAAGAAAGACTTTCCATGTGATCAGTCCATAAATCCATACCT
TAAACTGGTACTTTTCCAGAACAACTCCATTTATTTGTTTCGAGCTACTCAAGTGACTGTTGAAGAACACGTCTT
CAGAACCAGCAGAAAAAATTCCTTTACCAATATGATGACATTGCTGACCAGTGGATGAAAGTGTATGAGACCCC
AGATCGGCTCTGGGACCTTGGCCGGCATTGGAATGTGCTGTTGCTAACTGTATCCTCAGTGTCTTCAGAAAGT
ACTCTAAATGAGTAGCAGGCCTTAGTGCATCACTGGCATCTCATTCTTAGGAACTTGTCTTTGATACAAAAGAG
TGCTGACAGTATTTAGAAAGCTGAGAGAGTTTTATACATGGAAAATGGGTATGCTTAAAGATTGCAGGGTAGGG
AGGGATTTTCTTCATCCTTGTGACATTTCAATTCAGTAAGGAAAAGATAACAAAGTGCAATTATCAGCATTTTT
TTTTCTGGCATAAAATTAATCATTTCATTTTATAATTTTGTGATAAATAGTAAGTACAGGTACCAGATGAATCAG
GACAACTATGCACTCTTATAAGAGCATTAGGGTATTATGGGTAAAGACGTCTAACTTGTGTTGATGTGACTTT
TAATTTTAAATACGGGTAACAATCTGAGGCAATATCACTAGGACTTTAGCTGTGACCTCTCTAACACAGAGAAGC
ACTAACTTAGATCCTCATTCTTAATATTTATATGTATCTATTTTTGTGTACTGTTTTCAAGTGTACTGAGATTTA
AATGTGTTCTATTATTAGAGTAGATCGAAGAAAAAATTAGTCTCAGAAAGAGCTTTTAGTCTGATTGTTTCCATT
TCCCATGTAATTTTAAAGTTAAGCTAAAGTTTTAAAGTGGCAGTTTTCTGTGATGACTTTTTCAAGTGCTAACAC
TGCTCTTTTTGTGAAAATCTGAAAAGTGCTCATATTCACAGGTGGCTGGTGCTAGTCTAACTTAATTCATGTGT
ATAACTAGATGGATTTAAATGGTCTGAGCCTATGCCTATCTTTCAAATTGGTGTGGATTTCATGGCCATAGTACT
TTACCTGTTGAACTCTTGTGATTTCAAGATTCTCTACTTATGTGATAGGAGGGTATGGCCAGTTATTTCATCTA
ACTGGACTCAATCTTAGAATAGTAGGAACATTATACCCAGTTTGCACTAACATGGGCCATTTGTAGCCCAACCTT
CTCTTCCATCTACCTGTCCATTCAATTATTGGTACAAGGAAAGGTAACCTTATTTCTCTTCTGCACAGAGCATAATG
TGAAGTTTTATACCTACTTTTAAATTTCTGCTTTCCAGAAACAAAATTCCTGCAGTGGTCTAATTTAATGTCTTT
AAGTTTCATATTACAATTTAAACCTCATTTTTTTTTTTCCATTTTTGCACCTAACAGTGATGAATACTTTTACGTT
GGAATCCTCCTTCTAGCTGAAGGTGATTGAAAAGGAAAAGAGTGAGTGAACAGAACCATAGCTTTCTAGGTACTA
AAGCATTTTTTGCATTTAACTGATGAAATTTCTAACAATCATCAGTTAGGAATATTAACATGAAGGATAAACCAA
CTTATTTGTATACCTAAGGCAGGCATTTGGATCAGTAACATGTTTTACTAAGCCTAGAGTAATTCGTAAAGGGTA
TAAGCATAGGACAGATTTTGGCCCTCAATCACAATATTTGTATTCACTTGAAAGCAAACCTGGCATGGTTCGTATTT
TAAAAATCTTGCACAAATTGTAATGTGATACTGTGAAACAAATTGAAAACATTGCCTCTTTGCATCACATACCTC
GTTTTTCAGAACTTTCCAAACTGCTTTACATAGACCTCTACAAGTAGGGAATGTTTTCTGAAGCAGAAGTTAAA
ATGGACAGCATTTCTAGAATTAACATTTTAAATCTAGTCTTAGCTAGATATGTGGTTTCTTCTTATTGGTGTG
ATAGTATGTCTGTAATCTGTATAAACTTTGTCAACATTTTTACCTCCCCAGTTTTATCTTCTGTTTTGTTTTT
GTTTTATCATCATGATGTTTTGGAGTTATTACTGTGTATTTAGAAATCATTCTTTACAGTTTTGCATTGCTGA
GGAGAGAGAAAAACAATTTTTTGAAGAGATGTTTCATGTAATTTATTTTTGAAAGCTTGTGTAATAAGATTT
CCTGCCGCTTTTTGACAATCTTGTGTATTTAGAAAAATGTATTACTTGAAAACATGACATAGAACATTGAGTTAG

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FIGURE 1906B

CAATTTACATGGGCTGTATGTTATATAAGAGAATGACATACTGTGGCTAATTCAACAGTAGATTTATTCTTTTAG
CCTGCACAACAGTTGATCTTTTGGCTATGACAATTTGTATGGAGGGTACGATCTAAGTTAAGTGTGTCAAAAGCA
AGGCTTAGGATTTGTTATGGGAGTAGAATATATATTGAATTTTGTATGAAGAACTATTTGTTTAAATTATATAGC
TGGGATATTTTCCCACTGTTAAATGGATTGAGAAGAGGTCTAGAAAAGTAAGATTAGTGACATGTGTGGGTTT
ATATTTAGATATTTAAGGTGCATTTTCATAGTGTGGTAAGACCTTAAGTAAAAGGCACAATGGGTACTACAGAAT
TAAAATGTAGGTCTAACATAATGCCAGTTCCACTTTAACTTTGTTTTTGCATTTGAAGAATGTATGTAGCACTTT
CCTATATATTTGTCACACATTGAAAAGTGGACTGGGTATAACTATGTTATAGGAAAGTAGAAATTGTATTCTTTA
TTTTCCATCTTTGTTTTCTGTTCTACAAAGTTGATGCTTAAGCATCAAGCTGATTTTATTGGTCATGAGAACAAA
TGGATGTGATCATGAAGGAATCAGATTCCCTATGTAAAGCAGTTTAAATGGAATTCAATGTTTCAGTGCTCAGGT
ATGTAGTAAGTACTGTAGTCCTGTGGGGCAAATGTGTAGATATTTTTTAAACATTTTGCCATAATTGCACAATTT
TTTGCATTTTTACCTGATGTCATTGTTTCTTATAATAAAACCTTTTCTGATTG

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FIGURE 1907

CCGGGGCGGGCGGTTGCATCAGATTCTAGGAAGTGTCTGTAGCCGCAGCTGCGGGTCCGGGATTCCCAGCCATGGC
AGATTCTCCGGGCAGCAGGGCAAAGGCCGGCGTGTGCAGCCCCAGTGGTCCCCTCCTGCTGGGACCCAGCCATG
CAGACTCCACCTTTACAACAGCCTCACCAGGAACAAGGAAGTGTTCATACCTCAAGATGGGAAAAAGGTGACGTG
GTATTGCTGTGGGCCAACCGTCTATGACGCATCTCACATGGGGCAGCCAGGTCCTACATCTCTTTTGATATCTT
GAGAAGAGTGTGAAGGATTACTTCAAATTTGATGTCTTTTATTGCATGAACATTACGGATATTGATGACAAGAT
CATCAAGAGGGCCCGGCAGAACCACCTGTTTCGAGCAGTATCGGGAGAAGAGGCCTGAAGCGGCACAGCTCTTGGA
GGATGTTTCAGGCCGCCCTGAAGCCATTTTCAGTAAAAATTAATGAGACCACGGATCCCGATAAAAAGCAGATGCT
CGAACGGATTTCAGCACGCAGTGCAGCTTGCCACAGAGCCACTTGAGAAAGCTGTGCAGTCCAGACTCACGGGAGA
GGAAGTCAACAGCTGTGTGGAGGTGTTGCTGGAAGAAGCCAAGGATTGCTCTCTGACTGGCTGGATTCTACACT
TGGCTGTGATGTCACTGACAATTCCATCTTCTCCAAGCTGCCCAAGTTCTGGGAGGGGGACTTCCACAGAGACAT
GGAAGCTCTGAATGTTCTCCCTCCAGATGTCTTAACCCGGGTTAGTGAGTATGTGCCAGAAATTGTGAACCTTGT
CCAGAAGATTGTGGACAACGGTTACGGCTATGTCTCCAATGGGTCTGTCTACTTTGATACAGCGAAGTTTGCTTC
TAGCGAGAAGCACTCCTATGGGAAGCTGGTGCCTGAGGCCGTTGGAGATCAGAAAGCCCTTCAAGAAGGGGAAGG
TGACCTGAGCATCTCTGCAGACCGCCTGAGTGAGAAGCGCTCTCCAACGACTTTGCCTTATGGAAGGCCTCTAA
GCCCCGAGAACCCTGCTGGCCGTGCCCTTGGGGAAAGGGTCGTCCGGGCTGGCATATCGAGTGCTCGGCCATGGC
AGGCACCTCCTAGGGGCTTCGATGGACATTACGGAGGTGGGTTCGACCTCCGGTTCCCCCACCATGACAATGA
GCTGGCACAGTCCGAGGCCTACTTTGAAAACGACTGCTGGGTGAGGTACTTCTGCACACAGGCCACCTGACCAT
TGCAGGCTGCAAAATGTCAAAGTCACTAAAAAATTATCACCATTAAAGATGCCTTGAAAAAGCACTCAGCACG
GCAGTTGCGGCTGGCCTTCTCATGCACTCGTGGAAAGGACACCCTGGACTACTCCAGCAACACCATGGAGTCAGC
GCTTCAATATGAGAAGTTCTTGAATGAGTTTTTCTTAAATGTGAAAGATATCCTTCGCGCTCCTGTTGACATCAC
TGGTCAGTTTTGAGAAGTGGGGAGAAGAAGAAGCAGAACTGAATAAGAACTTTTATGACAAGAAGACAGCAATTCA
CAAAGCCCTCTGTGACAAATGTTGACACCCGCACCGTCATGGAAGAGATGCGGGCCTTGGTCAGTCAGTGCAACCT
CTATATGGCAGCCCCGAAAGCCGTGAGGAAGAGGCCCAACCAGGCTCTGCTGGAGAACATCGCCCTGTACCTCAC
CCATATGCTGAAGATCTTTGGGGCCGTAGAAGAGGACAGCTCCCTGGGATTCCCGGTCGGAGGGCCTGGAACCAG
CCTCAGTCTCGAGGCCACAGTCATGCCCTACCTTCAGGTGTTATCAGAAATCCGAGAAGGAGTGCGGAAGATTGC
CCGAGAGCAAAAAGTCCCTGAGATTCTGCAGCTCAGCGATGCCCTGCGGGACAACATCCTGCCTGAGCTTGGGGT
GCGGTTTGAAGACCACGAAGGACTGCCACAGTGGTGAACTGGTAGACAGAAACACCTTATTTAAAGAGAGAGA
AGAAAAGAGACGGGTTGAAGAGGAGAAGAGGAAGAAGAAAGAGGAGGCGGCGGAGGAAACAGGAACAAGAAGC
AGCAAAGCTGGCCAAGATGAAGATTCCCCCAGTGAGATGTTCTTGTGAGAAACCGACAAATACTCCAAGTTTGA
TGAAAATGGTCTGCCCACACATGACATGGAGGGCAAAGAGCTCAGCAAAGGGCAAGCCAAGAAGCTGAAGAAGCT
CTTCGAGGCTCAGGAGAAGCTCTACAAGGAATATCTGCAGATGGCCAGAATGGAAGCTTCCAGTAGAGGGGGCAC
AGGACTGACTTTTTAAACCATTGTGGACTAGTGGCTGCTGTCTGCCTCAGTGACAATGTCCCAGCGCTCCTATCA
TGTTTACAGTCACCCTTGGGTCTAAATTAAGAGTTGTGTTTCATGTAGGTTTCGTGTCGTGCTGGCTCTGAGACA
TTGATAATAAATTTTTCTCAACAGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1908

MADSSGQQGKGRRVQPQWSPPAGTQPCRLHLYNSLTRNKEVFIPQDGKKVTWYCCGPTVYDASHMGHARSYISFD
ILRRVLKDYFKFDVFCMNIITDIDDKIIKRARQNHLEFYREKRPEAAQLLEDVQAALKPFSVKLNETTDPDKKQ
MLERIQHAVQLATEPLEKAVQSRLTGEEVNSCVEVLLLEEAKDLLSDWLDSTLGCDVTDNSIFSKLPKFWEGDFHR
DMEALNVLPPDVLTRVSEYVPEIVNFVQKIVDNGYGYVSNGSVYFDTAKFASSEKHSYGKLVPEAVGDQKALQEG
EGDLSISADRLSEKRSPNDFALWKASKPGEPSWPCPWGKGRPGWHIECSAMAGTLLGASMDIHGGGFDLRFPHHD
NELAQSEAYFENDCWVRYFLHTGHLTIAGCKMSKSLKNFITIKDALKKHSARQLRLAFLMHSWKDTLDYSSNTME
SALQYEKFLNEFFLNVDILRAPVDITGQFEKWGEEEAELNKNFYDKKTAIHKALCDNVDTRTVMEEMRALVSQC
NLYMAARKAVRKRPNQALLENIALYLTHMLKIFGAVEEDSSLGFPVGGPGTSLSEATVMPYLQVLSEFREGVRK
IAREQKVPEILQLSDALRDNILPELGVRFEDEGLPTVVKLVDNRTLLKEREKRRVEEEKRKKKEEAARRKQEQ
EAKLAKMKIPPSEMFLSETDKYSKFDENGLPTHDMEGKELSKGQAKKLKKLFEAQEKLYKEYLQMAQNGSFQ

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FIGURE 1909

CAAATCCAGTCTCTAGCAGTTATGTTGTTAGAATGGATTCATCTGTGCTTATTTTACAATACTTCATTTATAGCA
ATGCTTTTTCCTTAAGCTAATGTATAAATATTTCTAAAGGCCATTAATAGTAACAAAATAAGTAGGGGAAAAAATG
GACCTTCTGTATAAAAACCCCTTAGCTTTTTTTTTTTCACAAGTTATAAGTGGAATAAGTTAATAACTGAGCTCGT
AAGTGTATCTCATAACTATAAGAGCTACATGAAGAAAAATAGGAATAACACACCTGGTATTTAAACACAATCTTCA
AAATTCTTGCAACATTAAACATAGTAAAATGCCAGAATATAAAATGAGGTGTGCTAATGGTCACAGGATTGAGGC
CAGCATTACAGTTTGGGGTGATTTTTCTTTTATTGCTCCCTCACTTTGTTTCTTAGATGCTAGTAGGGGTATCT
GGGTTGCTTGAGATAACCATTTTGCAATTGCCCTTCTCTTCTGCCTACCATCTTCTCAGGCCCTGATGAGCTTA
TTGGTAGGCAACTGGGCTGCTTTAATGTTGAACCTTGACTTCTTTAGAACTGAAGTGGAATCATTGAAAACTTT
CAATAAAGCTTTAAAGTTCCATTTACTTTTGAAGCACAGCTAAGCTCCTCTGAAGGCAGCTGGTTTGTGCAAAAC
TTAAATTTGTACTGAAAAGTTGCCACTTTTTATTAGTAAGAAAACAAACATTCTGGCTCACTAGAGTTCAGAAA
AGTAATAATTTGAGCCAAAGGAATTTGAATTAAGAAAATAGAACTAGGTTTCATGTATTTAAAAAATAGGAAAT
AAAATAGAACTCAAATGCCATGAAGTTATCTTCCTCTTCCCTATATCCCCTAAGTTTGGGGATATAAGGAAGAG
GAAGATAACTTTCCAATTCCTAATAACCTAAATTATTTGAAATAGTGTTCAGTGAAATGATGAATGTTTGAA
TGTTTGTGTTGGTAATCAACATAACAATGCTAACAAAATCCCACCTAGATTTTTTAACTTTTAAAAGTCAGCGTG
GTTTTGATAATTTGATATTTTAAATGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTGTTAATAAAC
TGATAGGATGGAGTGAGCAAAATTTGTTTCAGGGAAGATGGCACATTTTAGAAAAGACTTGCCCGATGATCTTC
CATATTGCTCCCCCAATGTCATTTATCGCTCATGCCAATCCTCCTCTGTACCTGTGGCTATGGTAAATTCCT
TTAACAAGCTTCATTGTGTCCAAGTATTTAGAGACTTTTAAAAGCTGGGCATGACATAGCGTTTGTGCTGTTA
AGACCTTAGCAGAGTCAGGTAGTTTACGGGTAATATTCAACCTTGTGCATCTGAATCTGTCATGGATTCCCTTCA
CTCAGCACTTTGCCACTAATTTGTATTACACTCTGTGGCCATATAATACTTGACATTATGCAAAAAAAATGTT
GATAGTATCTCCTTGCCACACAATATGCAGAGTTGACAACCTTTGAAAACCAAGGTAACATAATATGTATGTCCTA
GTTGTGTGGCGCTTGGAACAAAGTCTGTACATATTATGTATAAAATGTGTATTGGTTAGCATTTAGTACTAAGA
AATTCTGAGTTTAAAATAAGTGATTTTTTTCAAAGTAGCGATATCTATATCTGTGTTTATCTAAAAATACTGGCT
TGAATAGAAAACATTCTCAGATGATTCAAGATTGAGTAAAAATGAGAATCCCATACATTCCATTATTAAATCTG
CCCTATTCCCAATTGTTAGCATCTGGCTGATATTAAGGTCTTTGATTGTCACAATATTCTCAATAAATGAGACAT
TCTGAAGTGCCTGGTGATATTTTCAAAAAGAGCAATTAATAATGTGTATTCCCTCTAATACAGCTGATAGAAGTGT
TGTGTTAAAGCAAGTTGGAAATTTGCATGATAGTGTGGAAACCAATGGAGGTCCAAAATATTAATCATATCTAAA
ATATCAGAAAATATCAATACTAGTCTTCTTTATGCATATTTTGAAGAGGGCTTATGAATTCATGTT
TCTTCTGAGGCAATCCTTTTAAATGTAAATACTAAATACTTGATGTCCTTTTGACAAAGGCTAACTACAATCTAT
TAATATGCACATTTTGGATAAAATATAAAGTACCCTAATTAAAGAAATTTGGGTAGAAGGTGTATGTCCTGAATA
CTATACCTGTTTAAACAATACCAATGTTAAATAAAAAATAGTTTGAATTAATGTTTAAAA

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FIGURE 1910

QIQSLAVMLLEWIIHLCLFHNTSFIAMFLKLMYKYF

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FIGURE 1911

CTAAAAGCTGCTGTACAAGCCTTTAAAGAAGCAAGACAAAATGTTGCTGAAGTTGAGTCATCAAAGAATGCTTCA
GAGGACAATCATTTCTGAGAATACCTTTGTATTCAAATGATAATGGAAGTAATTTACAGCGTGAAGCAACTGTCATC
AGTGAGCAAAAAGTCAAAGAAACCAAAATATTGGCGAAGAAACCAATACATAATTCAAAGGAAAAAATAGCAAAG
ATGGAACATGGACCTAAAGCAGTGACTATTGCAAATTCTCCATCAAAGCCTTCAGAAAAGGATTCTGTAGTTTCC
AGTCCCAGAACACCTGCTGACCCAAAACCTGAAAACCTCTAAGTCAAACCAAAAAAACAAGGATCTGAT
CACTCTCTGGTAACAGTGATGGCGGAGAAGAATTTTGTGAAGAGGAGAAGGAATATTTTGTATGATAGCACA
AAAGGTTTTACAAGCAGTCTTCCATGTCTGAAGATAGTGATAGCGGTGACGACTTCTTCATTGGGAAAGTC
AGACGGACACGAAAGAAGGAAAGTAGTTGTCATTCTTCAGTTAAGGAACAAAACCACTAGAAAAAGTGTTCCTT
GAAGATACAGGTGAAACTCATGGGGATACAAGAAATGACAAAATCAAGCCAAGTACAGAAACCAGAAAGTTA
CAGTGTTCCTACTCTTTATCTGGATCTAAAAGCTCTAGAAGAAATTTCAAAGAACAGGCTCCAAAAACA
CTCCTAGATTTTCCACAGAATGAGCCTCAGATCAAGAATCAGTTTAATAAGAAGCTATCAGGAAGACTTGAA
CAAACAGCAATTGCAGCTGCCTCTTCATCCTTCATGGGAAGCAAGCAGAAGGCGAAAAGAACAGCAATCT
ATTGCTGTGTTTCAGGGGAAAAAATTACGTTTGATGATTGATTAGTGCCTCTTTCTGCAAACCTTTTCCATC
TAAAAAAAATGTTTTTTTTTGGGACAGGATCTCATTCTGTTGCCAGACTAGAGTACAATATTGCAATCACAG
CTCACTGCAGCCTCAAACCTCTGGGCTCAAGTGATCCTCCCACCTCTGCCTCCCAAAGGGCTGGGACTGCAGTG
CATGCACTACCATGCCCAGCTTTCTCACCCCAGGCTCTGCAGCTATTACTTAAACTCGTATTTGAATAAGTCTCT
TGGGGAGAATTATAGAATGTTTGTGTTTTGTTTTTAAAGTAAATTCAACTTACGCTTATATAAGCCTTTC
ACAAATCCAATATGTACTTAAATGATTTTTAATAATATCCCTCAGACTGTTTCCCTTATGAAGTAATTTGGGGA
TTTTAGTGATCTCATATTTTCTCTTTAGTGCTTATCATGAAATGTGCTTCACTGGTTCAGCTCTGTTGTTTCCTT
AAACATAAATGTCAATATATATTTAAATAATAATGGAACATAGGAAATCAGCTATTTAAACCAGATCACCTT
GTTAAAAATCATTCTTGTTAGCAAACATAAATAGTAACTTTTATTATGGATGTACAGATAAATATTAATTTTATT
ATAGTTTTAAGTACTTGTGATCATGTACTTTTTGATTCTAAAATAGTTGTCTAGGACAATTTTGGGATTCTTAAT
TATATTTTAGTTAAGAAAATTGTTTAAATATAGCAATACAACCAATAATTTGTTTTATGTTTCACTGCATATAAA
TATTTCCATTAAATCAAGAATGTATATTATCTAGTTTTTACTATACTTATTTTAAATTTTGGAGGAATCATAGA
TTCTAATTTTTAAGAACAATTCTGAAGGTGGTAGGATTAAGAAGTATTTCCACTGATGGCTAAGCAAAGAAGT
TGTAAGATGACTCACTGAGGAAGGGACTGCTTTATACATCACAGTACTGCTATTTAAAAGGAAAACAGAAATTTT
TAAATCCCTTCAAATGTTTCACCTTTTGCTATGCTGGGAAAAATTTTGAAGTTCTTGGTAAACTGAATAATGCTAA
TCCATGTTTCCTGCACATTAGTTCCTTTAATGGCAGGGAAAGGCCATCTGGTTAACCTGTATTACAAACTCTCAA
GAGTTTCTACTTATTTTCAAGAGCTTAAGAATTTAGATAAAGTCAAGCCGGGCGTGGTGAATGCCTATAATCCCA
GCACTTTGGGAGGCTGAGGCGGGTAGATCGCTAGAGGCAAGGAGTTCAAACCAAGCCTGGGCAACATGGTGAAAC
CCTGTCTCTACTAAAAATACAGAAAATTATCCAGGCGTGGTGGCCGGCATCTGTAATTCAGCTACTCAGAAGGC
TGAGGCATAAGAATTGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCAAGATTGCACCACTGCACTCCAGCCT
GGGTGACAGAGTATGACTGTCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1912

CTGCGCCTGGCGTCACCGACCGGTGCGGACAGGAAGAGGCTCTGGGCTGGCACATGTGTATGGCGGTGAGGCGGG
CGGGTACATGGCGGGCTCTGTGGGACTGGCGTTGTGCGGGCAGACGTTGGTGGTGCGGGGCGGCAGCCGATTCCT
GGCCACCTCCATAGCAAGCAGTGATGATGACAGCCTCTTCATCTATGACTGCAGTGCTGCAGAAAAGAAGTCACA
AGAAAATAAAGGGGAGGACGCGCCCTTGGACCAGGGGAGCGGTGCGATTCTGGCGTCCACCTTCTCCAAGTCTGG
CAGCTATTTTGTCTTTAACCGATGACAGTAAGCGTCTGATTCTTTTCCGTACAAAACCATGGCAATGTCTGAGTGT
CAGGACCGTGGCAAGGAGGTGTACAGCCCTGACTTTTCATAGCCTCGGAGGAGAAGGTCTTGGTGGCCGACAAGTC
TGGAGACGTCTACTCCTTTTCGGTGCTGGAGCCACACGGGTGTGGCCGTCTAGAGCTGGGGCACCTGTCTATGCT
GTTAGATGTGGCTGTGAGTCCTGATGACCGCTTCATCCTCACTGCCGACCGGGACGAGAAGATCCGAGTCAGCTG
GGCCGCGGCGCCCCATAGCATCGAGTCCTTCTGCTTGGGGCACACAGAGTTTGTGAGCCGTATCTCCGTGGTGCC
AACTCAGCCCGGGCTGCTTCTGTCTCCTCTGCGGACGGCACCCCTGAGGCTCTGGGAGTACAGGAGCGGCCGCCA
GCTGCACTGCTGTACCTGGCCAGTCTGCAGGAGCTGGTGGACCCCCAGGCCCCCAGAAGTTTGCCGCGTCCAG
GATTGCATTCTGGTGCCAGGAGAACTGCGTGGCGCTCCTGTGCGACGGCACTCCTGTGGTCTACATCTTCCAGCT
GGACGCCCCGACAGACAGCAGTTGGTGTACAGGCAGCAGCTGGCGTTCCAGCACCAAGTGTGGGACGTGGCTTTTGA
GGAGACCCAGGGGCTGTGGGTGCTCCAGGACTGCCAGGAAGCCCCCTGGTGCTCTACAGGCCTGTGGGCGACCA
GTGGCAGTCTGTTTCTGAGAGCACCGTGTTAAAGAAAGTCTCTGGTGTTCTTCGTGGGAACGTGGGCCATGCTGGA
AGGCTCTGCCGGCGCAGACGCCAGCTTCAGCAGTCTCTACAAGGCCACGTTGACAAACGTGACCTCCTACCTGAA
GAAGAAAGAGGAGAGACTGCAGCAGCAGCTAGAGAAGAAGCAGCGGCGCCGGAGTCCCCCGCCTGGGCCCGACGG
GCATGCCAAGAAGATGAGACCGGGGGAGGCGACGCTAAGTTGCTTGATCGTGGCGGTCTGTTTCTGTCGACTGTGG
ACCACTTATGTGCGATCCGTGGACCACTTGCGTGCGATCTGTGCGCCGACGATGAGCTTGTTCGGATGTAGCTCC
ATCGTAAGTCGAGGAGCATCTGTGATTTGTCCTCTGCTTATGGGATATGTTTTCCGCTACTGAGTCTGTGTAGT
AAATTTTTGACTAGGAA

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FIGURE 1913

MAGSVGLALCGQTLVVRGGSRFLATSIASSDDDSLFIYDCSAAEKKSQENKGEDAPLDQGSGAILASTFSKSGSY
FALTDDSKRLILFRTKPWQCLSVRTVARRCTALTFIASEEKVLVADKSGDVYSFSVLEPHGCGRLELGHLSMLLD
VAVSPDDRFILTADRDEKIRVSWAAAPHSIESFCLGHTFVSRI SVVPTQPGLLLSSSGDGLRLWEYRSGRQLH
CCHLASLQELVDPQAPQKFAASRIAFWCQENCVALLCDGTPVVYIFQLDARRQQLVYRQQLAFQHQVWDVAFEET
QGLWVLQDCQEAPLVLYRPVGDQWQSVPESTVLKKVSGVLRGNWAMLEGSAGADASFSSLYKATFDNVTSYLKKK
EERLQQQLEKKQRRRSPPPGPDGHAKKMRPGEATLSC

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FIGURE 1914

TGCTGGCCTGACATTTTTANAAAAAGTTTTATTTTGCACGGCTCTAAACCTCCATGTTATTTCCAGTGGTGTA
GAAGGTACCAGCTAAAGTGAACCACTATGTAATATTAGGCCATTCTAAAGGAAAGATGTTCCATGTCATCAGAGA
TGGTAAATAGGCAGGGAAAAAAAATCTTTGGTACCAAAGATTACACTTGTGTTTCTACACAGCAAACCATTTT
TCTTTCATGAAAATAATATATTATTAAACATGAATATATTATTTTGCTATTAATGTGAAAGTTGTCTCTAAATATT
TTTTAATTTTCAAACCTCATACTTTATTTTCATTTGAAATGTTTTTCACACCTTTTGCATTACATAATAATTTTGT
GGAAGCATTTTGCCCTTTAGAATAAATATTAGATTGATATAGCTGAAATGTGACTTCCAGTTCTTTGATATTCCC
CTTGTTATTCAAATAGAAATATGGAAATGCTTTATATATTACTGTTAAATTTCTTAGTGCAGAAATAACATTATT
AATAGAGTATTGTTTTCAAACAGATGATTAATTTCAAGAGGTTTAAACAGTGAAATTGTGTCAATATTTTGCATT
TAAATGAATTTAATTGACCGATATTTTCTGTAGTTAAATTTAGTCACAATATCACATATGTTCTTCAAGAAACA
CATGAAATTATTAATAAAGTAATTAATAAATTTTAAATGTATAACAGAATTGACCAATAGGCCAGTTTTCTGGTA
ACTTATGATAGTAGATTGTTTCTTTAGAACTGGGCAGAAGCTCTGCATTCTCACTTGTACTTTGATTTCTTATT
TCTTGGTCAGGCAATTTGAGGAAAGAAGAAATGGCATGGGGAATATATATGTTTTGTTTCTTAGGGAAAAACAGTC
TGAGAAATGAATAAAAAGCATGAANNNNNNNNNNNNNNNNNNNNNTACCATGGAAAAGGATATTCACAGTAGTA
CAGTTCTCAATATTTTTAATTAGATGTCATATTTTTTTAATATAGTAAACCTTGGGATATAGAATATTACATCT
TTTGAGAATGTATGTGTCTCTAAGTAAGTAAATCTAATGCGTATAGGAGACTGATAGCTAAAAATGAATGGAAC
ATTAATGTACTTTTATAATTAAACCTCTTATCTATCAGAAATTGTAAGAGAATAGATACATGTTTGAATGTAAA
GTTGAAAAGTCTGGTTTACTGAATAAATTGAAAGTGATTTATAAAATCTAAATTTGGACTACTTGCAAATGATAA
GCTATTCTAGTAGCCTTTAGTTTAAATCCAACAGAAATCTAGAAGTCACAAGCAAATATCTTAAAGGTAAATCC
ATCTGGGCACTCATTTAAAGTATATCTTAAAAAAGCAGCAGCAAGGTACCTTGCCATTTTAGCATATTTTCTTC
CTTTTTCTTTTTCTTT

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FIGURE 1915

PGLTFLXKVLFTALNLHVIFQWCRRYQLK

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FIGURE 1916A

ACGAATTTAGAATATAGGTAGTGTTCTTGAATACTTTTGAATATGTTGGAATAAAGTCATCCTTTCTCATT
CTGAAAAAGCAGGGAAGAAGCAACAGTTTGGTTTTGATGAGTTTGGAAATTTCTGCCACTTGTAGTGATAAATGT
TCTTAGCAGAAGCACGTGGCAGCATTAACTTAAAAATTAATATCAGTACGTATGTTAATAATTTTAACTAGTTT
TATTTTAGAAGGATAAGGATATTCTGACTAGATTACAGTAACATCTACAATTGCAATTTCTATGACAGTAAATTT
AGCTTCTATAAAACGTAAAGAACCTTTAGTAAACACGAGGGAATTGAGTATCATCTGTTGAATAAATAAATTTA
TCATTTTATCCTGCCAGAAGTATGATGGGCATCTTCCAATAGAAATAAAAGCTGTTTCTGAGGGCTTTGTCTTC
CCAGAGGAAATGTTCTCTTCACGGTGAAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGGTAA
ATTGTTTTTTTTAATTCTTATTTAACATTAATTGAATAAAGACCATTGAAGTGAAGATTACAGTTTGAATTTGTTA
CTAATANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNG
ACTAATAATCTTTAAGGTTTCTTCTAGTAGAATAGAATGTTCTGAGATTTTGTTTAAATCAAATTATTGAGAGT
GATTGTTTTTAAACCTAGTTGGCTTTCATCTAATTCATTGCCATTTTAAAGTGTGATTATTTTAGAGCAAACCT
AGAAAAACAGCACATTTCTAGTAACTTACGACATTCGATGAATGATAAATGTTCAAGTTAGACTAAAGGAACCTT
ATTCCAACCTTCTAGTAACTACTTCTTCATTTTTCTCTCATCAGTTTAGGTCTTAGGATCTACCATCTGTTACTT
TTCAGTTTCTCATCTAAATAAAACAAGATCTGCTGTTCAATTGTTTAAATTTCTCAGGAAGGGTACATTTTGGGC
TTTGGGTTTATACTGCGAGCCTTTTTTTTGTCTTGTATGTATACCTAAGTAGTCATATGTTTTCATGGT
CAGAGTTTTGATAATAATACTCTACCTAGCTTCTGAACAGTTTAAATAATAGATTTAATCCGTGAGAGGAAATACC
CTCGAAAGTTACTATAGAAATAACACCTTACTATCTGGTGGCATTACTTAGTTCTTAGAAGTACTAATTAGTT
TATCGGTTAAAGTAATTTGCTATTATATTGTAAATAGTACATTTGAGGCTCACTTATAAAATTTGAAACATC
GAAATATAAGAGGTCCAAGAGGGTGTTTGAACACATTTTGCTAAGTTGACAGGAAATTAATAGACTTTTTATGG
GCCATTAATAATAATACTCAAAAAAAGGTACAGTTAAATAAAGGTTTTAAATAGTCTATACCGTATACTAA
AACTAAATTAATATTTAGGACTGAAATAACATATTGATTAAGTACCAGCTATGTACCCAAAAATGCTGGGCACA
GAAGTTAGAGTAAGATGTTTTACTTAAAGGGCCTTTGAGTGAGAGTTGGCAATTCATTCTGAACTAACCTAAT
ATCATTAAAGAAATAGTGCTGAGTTGGTAGCAGGAAATAGGTAATTCGTCTAAAGGAATCATGAAATGGAAATA
AATAAGCTTTTAATAAGGAGAAGGAAGAGCTGAAGAAATGGCACAGTGTTCTTAGAATGACAGATAGTCCTATGG
GGACTGCAGCATAAAAGTGAAAAATGTATAAGATAAACCTTTAGATGGTAAGCAAGGCAAGATTCTCAAATTCGT
TATGAATCAGCTCCACCTCCGCCCATGGACAGTAGATGACCGTTAATGGCTTTTAAAGGAAAGATGCAACCTGGA
AAAAAAAAGAAAAAAGCTTGTTTTGAATGGTAACCACTGGCAATATGAAGAATAATTAGACTAAAGAAGAGAGG
TAGGATAATCATGGGCATTGGCAGTGAATTGAAAGAGTAATTTAGAAAGCAGAAATGGTCAGATGTTGGAGGTGA
TTGGTTATAGAGTTTAAAGATTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNCCTGATTCTGTGGTTGACTGGATGGTCTGCTGCTCTTGCTTAGACTTAGGCATCTGCAT
TTAGCTGAGGGTTCAGCCAGGGCTGGACATCCTTAAATGGCCTCATTCCCATGTCTGGGGCTCAGGTCAGATAG
CTGGGACTACCGGTCTCACTCCAGAAGAGGCTTCTTCAGAGCATGGTAGTCTTGGGGTTCTAAGAGAATGAGAG
TAGAAGCTGCAAAACCTCTTGAAGTGGGGCTTGGGAGTCACACATGACTTTCTCCACATTCTGTTTCGTCAAAAG
CGAATCATAAGGACAGCACAGACTCAAGGGATAAGAAAGGAGATTCCATCTCTTGATGAGAAGAGCTGCAAGGC
CATATTTAATCAGTCACAGGAGTCTAATGCTACAAAGTAGTTTTTTTAAAAGATGACTAGATTGGCAAGTTCAAG
GTTAATCTTTTTATTTGTTTTATTTATATATCACTTAGCTGGTATTTCAGTAAAGCTTGCTTTGTAAAATTTAGT
TAATATCTTTTTGGTTTCAGCACAGACATTGCATCATCTTAGCAGCTCTTTTTCAAACAGATTTGAAGCTGCTTCA
AATAACAATCTGGTTTATAAAATGAAAAATAGAAAATTATGATCTTAGAATGAAGAAGTGAATTTCTAAGCCATGA
TAATTATTACGGTTGCTGTGATTAGACAGACTTTTCTGTGGAGCTTCTGACAACCAAGAAAAAGGGGAAATCA
AGGAAGTGTCTTATCAGAAAGTAGGAACCCAGCAATCTTTTCAATTTCTCATTGGGAACCTAATAGTCACTGAA
TTACAAAGTAGACAGTGACCTTGATTATACAACATATGCGGAAGTGTTTCTGTAACTTACGTGAGTATTTTATC
AAATACCTTATATATTTGATAAAAGCTAAGTACATAAAGCATAACTCAGTAGATAGAATTTCTAGTAGTAAGCTA
AAGTGCTTCAAGTATTAGTTGTCATATTAATCCAAGAGAAAATTAGATCTGAGACTACCTCGAGGAGTAACGAA
CAACTTCTTTAAACCAATACTAGTCAAAATGCAGTCCACGGACCAATGCTGGTTTCATGCCCTATTTGATCCAAGT
CCACATTAAGTACAGAAATGAAGAGTAAGCATTTAGAACTTGGGGCAATTTGACATTGCCTCAACATCCAAGTT
TCAGTGCTCTTTATAAACTATTGATCCATGACAGATCATGAACTTTCTAAAAATTGATCCTTTTATCACATAGT
CTTTCAAAATATTATTGCTTCTTTGAAGCTTTGGATAGAACTTGATAATGTGAAGTTCTCTGCTATGTGGACC
TGGTGTGCTTATCTTCTTGTGCTGATTGAGAGCTGAGCTATGTACTATATCTGGAATGCACACAGCAGGCAT

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FIGURE 1916B

CCTGCTGTGCAGTTCTGTGTCTAGTTAATAGTATGGAAGTTCACATTATCAAGTTTCTATCCAAAGCTTCAAAGA
AGCAAATAATATTTTGAAAGACTATGTGATAAAAGGATCAATTTTGTAGAAAGTTTCATGATCTGTCATGGATCAA
TAGTTTATAAAGGACACTGAAACTTGGATGTTGAGGCAATGTCAAATTGCCCCA

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FIGURE 1917

MLRQCQIA

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FIGURE 1918

AACCAAAAAATAGCATCTGTAGCCCCTGTGTGCTTACTTTAAGTATATGTTACTGAAAAATGCGGAGTGAGCACT
TACAACCTCATTCTCCTGGGAAGCACAGTGATACTATACCCCAAATGCTTTTCTTTATCATTTTAATTTTTATCTT
CTTTACTTACATTTCCAACATCAGTTAAGAGGGTCTTGTAGTTTTCTAACTGAAAGGAGATTGTAAAATCTCCTT
GCTCAAAACTCAGATGCAGAATATTATTTTTACTACAATAAATACATCTACAACAATGGTATTATATCTGGTTTA
TTTCAAAGTCAAGTTCTAATATAGGTAAACAAATATACTAATAAAGAGATAATGCTTTTCTCATGAAATGTATAA
TCTAGTAGGAATAAAGATAAAACAATTTTTTTAAAAATTCTATTTTCAATTAAGCAAAAATGCAACTCAGAAGAATAA
TGTATATTAGCAGTCATTTACTATTTTTCAATTAAATTCCGATATATATGTAAAGTAAATTATTACTAATATCAA
ACATAGTTTAAAGAATTAGTGACTATGTGCACCTGGATCTCCATATGTAATGTACTATCAGCATCTTCACAAACA
CAGTAAATTTTACTACGCAAGTAAAACCTTATTTTACTAAACGATGATTACTCCTTCTATATTCATATTCCTAAAC
ACATACAGTTTCTTAATGTAATTAAGTTTTTAACTAAAAAAGGGAAATGCATTATTGAGGCGATAGGATTACTG
GGTGGCTATAAACACATCTGCTGCACAGCTGACATTTATCTTCTACAATGAGCAATGACAATTTTATTTTTTAAT
AATCAGTATGGACTAATCCTGATGATTTTTTTTTAACATTTTCAAATAGGGCTGCATATGGCTTAAATTAATAT
ATACATGTGTACCTATATAATATTCTTATTTATTAATGGACTTCCTACATAGCTCATATTGACGTTAGATTTAAA
TGAAATTCAGAAGGGTTTTCTATAGGTAAGTCATACATTGGATTTCCATATTACCTATGATTATTGAAGTATTT
ATTTCTGTTTTTAAGACTTCAGAGCAATTTTGCTGGTCATTTGTTTTCTGTGTTTTTATTTTGAAATTGTTCTTT
GAGGCATTGTCCTTATTTACATTTTTAAGGTATGTTAATAAAATAATTTTTTAATGAAAAA

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FIGURE 1919

MIIEVFISVFKTSEQFCWSFVFCVFI LKLFFEALSLFTFLRYVNKIIFLM

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FIGURE 1920A

AGGAATGAAAGGTCATAAGCCATTAGAAATAGTGGCATTATTATGCAATAACAACACCCTAGCTAACCTGCTTTT
GTCATCTGTAGCACTTACAATAAAGAATGATGACCTTCCAACCCTGGACACTACCTCGATAAAGCAAACCAGAGA
TCCTCTCTACACTTTCTATGGAAGCCATAAAAGTTGCCATCAATATATCCACTTTCATAGTTCTATACTTTTATA
CTTTCTAGACTTTTTTATAGACTTTATGATCAGATCTTTTTGTCTCAGAGGATAGGTTTGCAGATTCAAAGGA
AAATCAAACCTCCTTGGTTGTTCCAGCTTTGAAGCTTTTGCTTCAGTAAATTTGTTTAAAGAACAGATCACATAC
CATTTATCAAATTCCTTACTTAAGTCAGAATACTTTGCAGACATACATATTTGGAAAACAACTGTTTCTTGTTT
ACTAGATAGAATCTGTATTGTAGTAAGAACTACTTACAAGGTGGCTTTCTTTCTGCTTTGTTACTCTATGTATT
ACTCAATAATATATGTATGGTCACAGGTTTCTGGAGTTGTTTTATTTCTTTATGACAGACACATGAGTATGCACC
TCTCTCTAATCCTCTGATGTCAGCTTTCAGTCTCTCTCACTCTGTTTTTGAGTGCCTTCAAATGCCAGCA
TCCTGGAACATTCTTTTCTGATCTAAATCCTACCTCTGACTATTTTATTATCCATGAATATTGGAATTCACCCA
TATTTCAATGGGCTTAACTCTACAACTAGCTAAAACCTTGGACAAGAATTTGACCGTATTTCTAGTTTTGTTC
TCCATGTCAATTTTTAGGTTATATTTTTAACTTTTATTATATCTTATTTCTTCACATATTTCTGCTCTCTGTTGA
AAGATTTTATCCTTATTTGACTCTTCACTTTTTTACTTTTACCAGAAATTTGACGTTTCTTTAAATTAAGGT
CATTGAATGTCTTTTGAACACCTTTTTCTCAACTGAAGTCTTCTGAAATGCCTCCCTTTCTGATGAAAGGATCC
TGAGTGTCTGCTGTTGCTCTGCCCTGTTCCCATGTGCCACTCCCTTCCGTACACATTTTGAAGACTATACTCTT
TATTTTAGTCAAATTAATTTAAATTTGCTCCCTGGGTTTCTGCTCTCTCATGGCCCTGTCCCTCAAAAACCTCTG
TTTACTTTTTCTAGCTGTTTTTCTAATTTGTTTAAATGTATGATGGATCCATAATATATGAAGGATGTAATG
AAAAGGAGGTTGCAGTGTTTTATATAATATGATCGAGCACCTCCGTGATGAAACATTTAGCAATTGGCTAGTCCT
TCACAGCCAGAGTGGAAGTTTGTGCTGTGGACAGGTCTTTTTACTCCCTTCCAGTTCTCCTCAAAAACCTGGACGA
AAAAGGAAAAAAGAACTCTTCAAATGAGGAGATTGATTGCATTTTTTTAGGTGAATGAAAGCTTGGAG
TTGAGCATTTGGGCCTTAGTCAGCATTTTTCTTTCTGACTTAAATCTCATGTCTTTTCTTAAAGTTAATAG
TACTCAGGTTTTTAAGACTAATAACCACACAAGGTGGGTATCTAAGAAGGCAGCTGTTAATACATTTCTCCATCTT
TCCTGTCTGGCAACAGGAAAGATATTATTGGTGAGATAGTGCAAAATTGTGAGAATTGGTTATGTTTCGATGATGA
ATAAATTCAAGATTTTTGAAGGCTTCACTGCTATTTGGGATGGGAAGGTGAGTTTACAAAATGAAAAAGGTAGAT
TTTTATGTTACAGAAATCAGTAACGGGTTTCTTGTTGTGTTAATTACCTTTCACTTGATTGGCCATGATGTTTCT
TCCTCATTATTGATCTAGAAGTTTGCTCTTGATAGTAAGTACCTTAGTATCTACTTTAAATTTGTGGCT
TTTCTCTTCAGGGTCCCAGGCCATAAAACAACGGAGAGCTGTACTTGCTTGCTCACTTGGAGGAACCATCCTTG
AGACAGCTGCTGTCTTGATGTCTTTCAGTAGGAACTTCTGACACACACATTCAAGGGAGTTCTTGCCCTGAG
AAGTGTTCCTATAGCTTTCCAGTCGCAGGTTACTTTTCACTACGTCAGCTTCTCTGGTGAGATCAGGGATGTTA
CATATTACTTGAAATGATTTTATAGGAAGTGAGGATGGGGCAAGAAAGGAGGTAGAAGCTGAATTTTGCTTAAC
TTCAGAAGGAAATCTGATACTTGCTTGCTAGTTCTGATCAACTAAAGAGCCTGTGTCTGTACTGGATGTGCCA
AAGAGTCAAGTTGTTTCTGGAATATCCAGCTCCTCTGAATGAACACAGCTTCTCCCTACCTGTCTTTTATGGGT
GAAAGGGACCGTCTGATGAGCATGATAGACATCCTGTACAGGACTCAAGACTGTTTCACTTGCAATTTGAAAGTTG
GTGGGAAGTATTTTATTCTGCTAGAGCTCCTAACCTCCTAGAAATATCTTTTATGCTCTATTAATTCAATTCA
TTAGTTTTAAAAGAAACAGTGTGACATAATTTGGTGTTTACTTCTTAAGTTGTCTCCCAAGGGCATATATGTA
GCCTCTGAAATGGGATGATTTCTTCTCAATCTCCATAAATTTGAATATGCATTTTATTCAATTTCTTGACATGG
GCTGTGTGACTGTTTTCCATCAGCAGTTCTGGCTTTGTCCACAAGGGAGCAATAAAGTACGTTAGCTTTATTCTC
AACCTTCTAAAGAAAGATCCCACTTTTAAATCTCTTCTGGAATAGCCTCTTAGCTCAAAGCTTATTCAATGATTT
TGATTATTTAAGAAATTTTCCCTTATTACAAAGTCCAGTCGTCGTTTATCCCTCATGATGCCAAGCAATGATTGA
TGTGTGGGTGTGGAGTCTTGTGGGTGAGGCATCTTAATTAATTAGACTTTTTTACATATTGATGATCCCCAGATT
GAAAGCCAGGACCTTCCCATAGGGGCGCCTTTGTGTGCTAAAGGCAGAGCAGGCAGGCTTCTCCACTCCTATCTC
CTCCGCAGGCCACCACCATCACATCTATAGGAGGAACAAGAGCACTGGGGGAACCTTGGAGTATGAGTAAGGAAA
TGCTTCTCACCTTCTCTGCTCCAAAGAGATATCTGTTACATCAGGGAACAAGTCTCTAGGTCAGGCACTTCTCTC
CTGACCAGTGCAACGGGCACTCCAGGTTAGAACTGTGTGTGCTCCCTCTCTGTGCTAGTTACTTGTCTAAGGGCTC
CTATCCGTGGTTCATCAGCTCTCTGGCCATGAGTTCTGTTTGTGCTTATTGCAGCAGCATCTTCAACAACAAACAGG
TCAGTAATCAACCTGGGAAGGGAAGACGACAGTAAATATTACCCCTGTAGAGCCGGGAGGCATTTACACCTG
GAATGGCCTTCTTAACTGATTTCTGCCTGGCCACCTCACCCCAAGCTGAACTGAGCAATACCAGGCAC
AGAGAGGTGTCTACTTGTAACTCCAACACTTGACAAAAACAAAACCTGAAGCTGTGATTGGTTTAGGCAGCAAGT

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FIGURE 1920B

GGCCAGGTGCAACTTGTTTGTTTTATTTTTGTTTTCCCCAACAGTACTGAGATCACTTGCACTTTTCCTCATT
CTTAAGAAAATCCAGTTTGCTTGCCATGACTTGTTTAGCGTTAGGTTTACAAAGCTTGTTGTTGAATGTTGAATA
TTTGTCCAAAGGAGTTTGACAAAATAGAAGCTGCTTGGTCCCTGTTCTGCCTGCTAGGTCATAAGGATGAAGGCC
ATGTGGCTGGGGTACTTATGTCAAGTCCAGAATGGGGCAGTGTCCCTCTCCTACCTCTCTGCGGAGACGCAATTG
AAGGTCAAGTAGACTCAGTGTAGGGCAGGCAGCTGTCATGCTGCAAAGAAGTTTAGAGGAGTCTTTGGGTGTTGGG
AGGTGACAGGTAGGTAGGACAGGATCTCTTAAGATGGGAAAGATACTGGGGAGAGGAGGGCTGCTTGGCCCCAGG
GAACTGCAGTGAGGTGGAAGTGAAGCTCCGCTCCTGAATCTCCAAAGGAGCCCATGCTGCCCCGGCTTCCCTGAGTC
ATTTTTTCCAGCATCCTGTCAGATCCCTCAATGTACTGATTTCCCCCTTGTTGTTAACTATAACCGATATTATTTTT
TTAGCAATTGAAATGCACTTTTTTATTTCAACTCAATCATGATTTTAAGTATAAAAAATTTATAGATTGTTAAAA
CTACTTTTTTGTGTATTTTAACCACTCAATGTAGCATTGTATATTTTATTCTTGAGACTCTGGTACAGGTGT
GCCGCCTAATGATTTTTCTGAGATGCTGGGCCTTTGGATGTGTACGGTAACCAACTTAATGCTAATGTTCAAAGT
ACAAAACAAAAAAAAGGGG

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FIGURE 1921

GGGTCACCTCCGGCCTGCAGGTCAATGTCTTGCACCAGGGCCTTTGGGTGGCATATGACAGTTTGGGACTGTCCA
GTCTCTGTACTTTCTGGGGCCTCTCCTGTTGAATGGCTAGGCACCTGCAGGTGTAGGGGCTCAGGGTCACCTCCG
GCCTGCAGGTCAATGTCTTGCTGCTCCTGTCTGGGGAGGGCAGCTCTCTCCTAGCCCAACCCAAAAGCCCCAG
AAGCCTCCACACAGCCAGCTCCGGAGTCTGTCTTGGCTTAGGTGGCTTCAGGACTGGGCCAGGCACCTCCCTCA
TAGGACAATCAGACATGAAGGGTACCTTTCAATCACACAATCCTACACAGTCCTAGACATTAGGTGGGTCTCTG
TCTGCAGGTGACCTCATCAGAGAGCCAGCAGCATCTGCCATTTCTGTCTACATTCTCCTCCCTAGTGCA
TGGGAGTGGGAGGAGAGCCCAAAGCTCCCCAGATCTTTAGGAAGCCCCACTGTCAGGCTGAGTGGAGGGCCTT
AGTGACAAGTGATAACTTCAGGGAAGTCCAGAGTGGGAGACACATCTGGGGTCCAGCTTGCTGGTGGGCACTCCC
TCTCATGCCCCACAGCTCGAGGGGAAAAGGTCATAATTGACAGGTGGTTCTTGGGGTCTGAGATCCAGCCCAA
TATGGGACGACATGCTAGGAAGGGGAAAAGTGACAGAAGGTTTATATGCATCACACACCACTTTGACAAACCCA
ATAGCATTCACTATAGTGAATAGAAAACTCACGAAGCACCATAGTTCCAGCACTTTGCAAATATCCCCAC
AAATACCTTTGAGGTGAGAGTTACCATCATTGCCTAGTTACTGGTGAGAAAACAGAGGTTCCATGACGTGCCTG
AGCACTGAGGGGGATGATGTCAGCACTTGTGGCCGCACGTGCAGGCACACGCCCTCCATGTCACACCACTGCAC
TACTTTGCAGATGAGGAGCGATGCCTGAGCACTGGGATGGCATCATTGGCTTGTGTTGGACAGTGCCTATATAG
GAGTCCAGCTTCTACCACTTGTTCCAGTCTATCCACATTTTCCACCAACAGAACGAGTTTACTAGAAACCTCTC
CTCAAATTGGTACAAGGACTACATGACATGGCATGTGATGACACACACACAGAGGAGATCCTTTTTCCAGCATGC
AGGAAGAGGAGATCCCATACATGGGCTTGGGGGTGGCTTCCCTCACTGCAGTGTCCGGTCCCCAGCAGCTCTGG
GAGCAGGAGTGAATCTCCGTTTTGCAGATGAGGAAGCAGAACCATAAAGGTGACCTTTTTCTTTTTCTTTTT
TACATTTAAAGTTAAATTGGTCTCCCCTCAAAAAATGCTTAGACTTAATTATTTAATTATCCTCACATATACTC
CTCCGGCTTCTTTACTGAAGTGTAATTTACACACCATCAAACCTTACCATTTGAAAACGTGCTATTTCGGTAATCTT
TAGTATAATCATAAGGTTCTGCAACCAACCAACACCATATCTAATTTACGAACATTTTCATCACCACGAAACA
GAAACCCATACCACA

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FIGURE 1922

GSPPACRSMSCTRAFGWHMTVWDCPVSVLSGASPVVEWLGTCRCRGSGSPPACRSMSCCSCPGE GSSLLAQPKSPQ
KPPHSQLRSLSLA

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FIGURE 1923

GGCAAGCTACTGGCACCTGCTGCTCTCAACTAACCTCCACACAATGGTGTTCGCATTTTGGAAAGGTCTTTCTGAT
CCTAAGCTGCCTTGCAGGTGAGGTTAGTGTGGTGCAAGTGACCATCCCAGACGGTTTCGTGAACGTGACTGTTGG
ATCTAATGTCACTCTCATCTGCATCTACACCACCACTGTGGCCTCCCGAGAACAGCTTTCCATCCAGTGGTCTTT
CTTCCATAAGAAGGAGATGGAGCCAATTTCTATTTACTTTTCTCAAGGTGGACAAGCTGTAGCCATCGGGCAATT
TAAAGATCGAATTACAGGGTCCAACGATCCAGGTAATGCATCTATCACTATCTCGCATATGCAGCCAGCAGACAG
TGGAATTTACATCTGCGATGTTAACAACCCCCAGACTTTCTCGGCCAAAACCAAGGCATCCTCAACGTGAGTGT
GTTAGTGAAACCTTCTAAGCCCCCTTGTAGCGTTCAAGGAAGACCAGAAACTGGCCACACTATTTCCCTTTCTCTG
TCTCTCTGCGCTTGGAACACCTTCCCCTGTGTACTACTGGCATAAACTTGAGGGAAGAGACATCGTGCCAGTGAA
AGAAAACCTTCAACCCAACCAACCGGGATTTTGGTCATTGGAAATCTGACAAATTTTGAACAAGGTTATTACCAGTG
TACTGCCATCAACAGACTTGGCAATAGTTCCTGCGAAATCGATCTCACTTCTTCACATCCAGAAGTTGGAATCAT
TGTTGGGGCCTTGATTGGTAGCCTGGTAGGTGCCGCCATCATCATCTCTGTTGTGTGCTTCGCAAGGAATAAGGC
AAAAGCAAAGGCAAAAGAAAGAAATTTCTAAGACCATCGCGGAACCTTGAGCCAATGACAAAGATAAAACCAAGGGG
AGAAAGCGAAGCAATGCCAAGAGAAGACGCTACCCAACCTAGAAGTAACCTTACCATCTTCCATTCAAGAGACTGG
CCCTGATACCATCCAAGAACCAGACTATGAGCCAAAGCCTACTCAGGAGCCTGCCCCAGAGCCTGCCCCAGGATC
AGAGCCTATGGCAGTGCTGACCTTGACATCGAGCTGGAGCTGGAGCCAGAAACGCAGTCGGAATTGGAGCCAGA
GCCAGAGCCAGAGCCAGAGTCAGAGCCTGGGGTTGTAGTTGAGCCCTTAAGTGAAGATGAAAAGGGAGTGGTTAA
GGCATAGGCTGGTGGCCTAAGTACAGCATTAAATCATTAAAGGAACCCATTACTGCCATTGGAATTCAAATAACCT
AACCAACCTCCACCTCCTCCTTCCATTTTGACCAACCTTCTTCTAACAAGGTGCTCATTCTACTATGAATCCAG
AATAAACACGCCAAGATAACAGCTAAATCAGCAAGGGTTCCTGTATTACCAATATAGAATACTAACAATTTTACT
AACACGTAAGCATAACAAATGACAGGGCAAGTGATTTCTAAGTTAGTTGAGTTTTCGCAACAGTACCTGTGTTGTT
ATTTGAGAAAATATTATTTCTCTCTTTTTTAAGTACTCTTTTTTTTTTATTTTAGACAGAGTCGCTTGAGCCCAGGA
GGTGGAGGTTGCAGTGGGCCGAGATTGTGCCACTGCACTCCAACCTGGGTGACAGAGTGAGATTCCATCTGAAAA
ACAAAAACAAAACAGAAAACAAACAAACAAAAACAAAAATCCCCACAACCTTTGTCAAATAATGTACAGGCAA
ACACTTTCAAATATAATTTCTTTTCAGTGAATACAAATGTTGATATCATAGGTGATGTACAATTTAGTTTTGAAT
GAGTTATTATGTTATCACTGTGTCTGATGTTATCTACTTTGAAAGGCAGTCCAGAAAAGTGTCTAAGTGAACCTC
TTAAGATCTATTTTAGATAATTTCAACTAATTAATAACCTGTTTTACTGCCTGTACATTCCACATTAATAAAGC
GATACCAATCTTATATGAATGCTAATATTACTAAAATGCACTGATATCACTTCTTCTTCCCCTGTTGAAAAGCTT
TCTCATGATCATATTTACCCACATCTCACCTTGAAGAACTTACAGGTAGACTTACCTTTTCACTTGTGGAATT
AATCATATTTAAATCTTACTTTAAGGCTCAATAAATAATACTCATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1924

QVSVVQVTIPDGFVNVTVGSNVTLICIYTTTVASREQLSIQWSFFHKKEMEPISIIYFSQGGQAVAIGQFKDRITG
SNDPGNASITISHMQPADSGIYICDVNNPPDFLGQNQGILNVSVLVKPSKPLCSVQGRPETGHTISLSCLSALGT
PSPVYYWHKLEGRDIVPVKENFNPTTGILVIGNLTNFEQGYQCTAINRLGNSSCEIDLTSSHPEVGIIVGALIG
SLVGAAIIISVVCFARNKAKAKAKERNKSTIAELEPMTKINPRGESEAMPREDATQLEVTLPSSIHETGPDITQE
PDYEPKPTQEPAPPEPAPGSEPMAVPDLIDIELELEPETQSELEPEPEPEPESEPGVVVEPLSEDEKGVVKA

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FIGURE 1925

CAAGGATAGAATATTTCTGTGGTTTTTCAGGTGGTTTTCCAAGATTGTGCATTCAGATTTATAATACCCAACTTA
ATTATTTTCAGTGACATGGTGAAAGTGTATCAGGATACCATTTTCGCTTACTCTCAGAGTTTATGTAGGGCCCTTTT
GGGATTCAGTGTCTCCGTTCCACTGCACAAAATTGCAAGCAACGTGTATTTAATGATTTCAGCTGATAAGCCCTTC
CTTTTATGAACATATGAGTTAGTATTAAAAATGAAGGGTTGGGATTTCCTTAACTTTTTAGCCATTTAATCTTTTAAC
ATGGGATCAAGCAACAGAATGTAGCAGAAGAGTATTATGAAAATGAGAACATTGAAAGATAATGTTGATGCTTGA
TTCTTTCACTTAATAAGGTGTCTGAGTATTTAATGATTTTGTGTTTGTAGTTCAATTACCGTAGAACAATCTACTT
AACGCTAGATTGTCTGTCTGGGACCATGATGATTCTCAAATAAATATTGTATTTACCAATTCTACTCTTAATTTTT
TTAAACTAAAGACAAGACAAAAAAGTAGATGTCTCTATAATACATTTATATGAAATTAAATTTTCTTAGTTTAT
TTTTGCTTTAGAATGCCAGTTGTAATCAAAGGACCATTGGCAAGACACTGGCCATTAGTAAGGCATCAAACTTTG
AGCTTTGCTTTACTTTAAAAAAGTTATACCATGCAAGGATAGAAGTAGACATAGGCATTCACATAATCCCCTGTA
CATCCTCCAGAGGGGTTTTGTCTAGATGAATTTCCCCCAAAGGGCCTCTTAGTTACCATCAGCTTCTCTTTGGGAC
ATATATATTTCTGACTGTGGTCATTTGTTAAGGAGAAGTTTAGCAGACGTTATTAATCAAATACATTTAAGAGAG
CTATTGCTTTTCACTTTCTCCCATGATGTAATGCTCTTATAATAACAGGTTTTGTGGGGTCCCTCTTTATACAAC
ATCTGATGACAATATTCTTCATTCTTGTAAGCTCAGTTAACATCTTTTCACTTCCCATCTGATAAGTGCTAGCTG
CTGATTTTTTTTGCTCAGTATCTCCATTTATATCAATTTATTTTCATCTCTAGAGCAGCGCATCAGGCTGCTCTCT
CGTGAATATATTGTTACTTTTTTCTGGCACTGGAATATACAACATCCATGACAGCAAAATTTGAGGGCCATATT
GAGATCACCGGCTGATATGCTGACCATGTAAATATAAGTTTAAATTGCTTAGTTCCACGTTAGAATAGTTTAATC
AATTTCTGTCCCAGAACTGGATATGAAACAGGTTAGATGAGGAAGCTTATATGGAAAAAATTATCTTTTCATCC
TCTCCACATATACATTTTTCTGAGACTAGGTCATATGTATATTCATTTTGTACACATTGGGGAATTGGCATAGT
AATTTATTCAACAAACATTAATTAGCACATTCCCTTGTGACAAATCTGTAAAA

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FIGURE 1926

RIEYFLWFFRWFPREFVIQIYNTQLNYFSDMVKVYQDTISLTLRVYVGPFWDSVSPFHCTKLQATCI

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FIGURE 1927

AAAAAAAAAAGAATACCATGGTAGCACAGTCATACCCCTTAAATGGCTCACATTGTTCAAACAGCATGATATTAA
CTTTTTTTTTAAAATCAAAGCACAAATGCTTCATGCATATAACTTAAAGAGTTTTAGATATTTTAAAGTTAGAAATG
CCAAAAATATAAAAACCATGAAGAAAAATTTCTATAGAAGTTAGGAAATTAAAAATCGATCATAAGGGAAGCATC
TCAGGTTTTTTATTGCAGTATTTGGAGATGAAAAATGACTTTCTATTGACACGATTTGTTATTTTCAGCAAAATAGA
4. 20 IGTCAGTCTAATGTTGGATGATCTGATAGTCTTTGCAAGAAATAATTGCAGAGAGTTTCTGCAATCACTGG
5. 10 ATAGAAATCTATAAAAACATCTGAAAAAGTGTGAGACTGGGCCACTGCCTAGGGGGATAGCCCTGTTATTC
6. 20 GNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCTCTGAAAAGGAAATTCTTAATTCCTGTATTTACAGTGCCTTTTTCA
7. 30 GAGGTTTTTCTGCAAAGGGTGCTTGTCTAGTTACTTTGCTTTAATGGATAAAATCTCAATTTCCAGGCCAAATG
8. 40 TTTTTTTTTGGTCTTACATCTTGATTACTTGTACTTAAGAGGTTTTTTCTCCCTGTAATATTTTTTAAAGCTT
9. 50 AAAATTAACCTCAGCTTAAAGACAATATAAGTATGAATTTCTGTTTCCAGCCTTGTAAGTTCTGACTGTATTTG
10. 60 ATGGTTTTCTATATTAACGATAGCATTGTTCCATTGTGTAATCCTAAAGTTAAAAATTCTAAGAATGAGAAAA
11. 70 AGCTATGAATAAATTATAAGTGAAAGATAGAAAAACACATATTTCTATACTAAATATTGAGAGCTTTGTATT
12. 80 TCAAGTTGGAATCAATATATTGAGAACTGACTTTAAATTTTAAACTCTTATGCTGAGAAACCCTGACAGGTA
13. 90 TAAACCCGTTTGTCTACATAAGATGTTAGCAGTGTAGTATTGTGCACATCAAGCATGTTACAAAACTCTAAG
14. 100 TTATTCTCTGAAGATACATAAGTTTTACTAGAGATACTCTGGATTTATTAGTCCTGCAAAGCCATT

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FIGURE 1928

KKKEYHGSTVIPFNGSHCSNSMILTF

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FIGURE 1929

GTTATGATCAAATTAGACTGTGCCTGATTGGGTGGTAAGATCACTCTGAAAGAAAGCTCACTGTGAAGAGATGAA
AGGTGGAGGCAGAGCTGTGAGGTCATGGGGAAAAGCCTGCTTTCCTTATAAGTCCTGCTGTTTCATGTTGGAATAA
GGATCTGCTCTTCCTTGTTTCCATGCATTTTGCAGGATTCCAGGTACCATTACCACACTCTTCTGACCCATGAAA
CCAACCTGGCTGCTCACACATCACC AACAGGTTGGGGGTTAGCCTTCAGCACAGGTGGATACATCTGGGATTAC
TGAGATTCCCTGCCCTCTCCTGCTTCCTAGTGGTTTGGGACAGGCCCTCTGCCCATCGTCAGCAGTTTTTTGCTTT
CATACAAACCTGGAAGGCACTGGCATCTGCCTAGGAAAGTGGATCTGTGAAGAACAGATGAACTCAATCCTTTCT
GGAGTCTGACAAAGAAGGGATAGGCTTCCTTGACATTGCCTGGTCCTGACAAGGCCTCCCTGACATTACTCCTCC
AATTTACAGTTACCTTCTGTAAATCTATTTTCTCATCTACTGAATAGAATCAGGCGCCCTTTTTGTCTTCCAC
CTCTTATCTCTTGGCAATTTTAAGGGGAATTAATGCAAGAACAACCTTTAGTGTCTCTTGGGAAAACAAGCCAACC
AAATACAAAACCCATTAAGCCTACTAGGGTGAGTCCTCTTAACATGGGAAGGCGATGATTATGCAAACACCAGAG
TTCCCTCCTCTTCAGTTCCCTAAGAATAAAGAACAGGTATCAAGAACCTTCTTTAAAGTTAGTGTAAGTATAGTTA
ACAAAGTATCCATTGAAGTTTAGTGCTGTAGGACTGAGCCAGTGCTTTATCAACCCAACACATCATCACCATGT
GCATACTCTAGAAAAAAAATAGCTTCCTTAAAAGTTACAGAGGCTCTTAACGTGTTAAAACCGAAAAATCACAT
TTTTCTTGATTTCAAATATGTTCTACGGCCTTACTGTTGGGATGATATTTAGTATGTAAGTTAGCATTCCAATTT
CTCAAGAATTTTTAGGCCGGGTGCGGTGGCTCATGCCTGTAGTCCC

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FIGURE 1930

MKGGGRAVRSWGKACFPYKSCCSCWNKDLLFLVSMHFAGFQVPLPHSSDP

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FIGURE 1931

AAGATATAAAAGCTCCAGAAACGTTGACTGGGACCACTGGAGACACTGAAGAAGGCAGGGGCCCTTAGAGTCTTG
GTTGCCAAACAGATTTGCAGATCAAGGAGAACCCAGGAGTTTCAAAGAAGCGCTAGTAAGGTCTCTGAGATCCTT
GCACTAGCTACATCCTCAGGGTAGGAGGAAGATGGCTTCCAGAAGCATGCGGCTGCTCCTATTGCTGAGCTGCCT
GGCCAAAACAGGAGTCCTGGGTGATATCATCATGAGACCCAGCTGTGCTCCTGGATGGTTTTACCACAAGTCCAA
TTGCTATGGTTACTTCAGGAAGCTGAGGAACTGGTCTGATGCCGAGCTCGAGTGTGAGTCTTACGGAAACGGAGC
CCACCTGGCATCTATCCTGAGTTTAAAGGAAGCCAGCACCATAGCAGAGTACATAAGTGGCTATCAGAGAAGCCA
GCCGATATGGATTGGCCTGCACGACCCACAGAAGAGGCAGCAGTGGCAGTGGATTGATGGGGCCATGTATCTGTA
CAGATCCTGGTCTGGCAAGTCCATGGGTGGGAACAAGCACTGTGCTGAGATGAGCTCCAATAACAACTTTTAAC
TTGGAGCAGCAACGAATGCAACAAGCGCCAACACTTCCTGTGCAAGTACCGACCATAGAGCAAGAATCAAGATTC
TGCTAACTCCTGCACAGCCCCGTCCTCTTCCTTTCTGCTAGCCTGGCTAAATCTGCTCATTATTTAGAGGGGAA
ACCTAGCAAACTAAGAGTGATAAGGGCCCTACTACACTGGCTTTTTTAGGCTTAGAGACAGAACTTTAGCATTG
GCCCAGTAGTGGCTTCTAGCTCTAAATGTTTGCCCCGCCATCCCTTTCCACAGTATCCTTCTCCCTCCTCCCT
GTCTCTGGCTGTCTCGAGCAGTCTAGAAGAGTGCATCTCCAGCCTATGAAACAGCTGGGTCTTTGGCCATAAGAA
GTAAAGATTTGAAGACAGAAGGAAGAACTCAGGAGTAAGCTTCTAGACCCCTTCAGCTTCTACACCCTTCTGCC
CTCTCTCCATTGCCTGCACCCACCCAGCCACTCAACTCCTGCTTGTTTTCTTTGGCCATAGGAAGGTTTAC
CAGTAGAATCCTTGCTAGGTTGATGTGGGCCATACATTCTTTAATAAACCATTTGTGTACATAAGAAAAAAAAA

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FIGURE 1932

MASRSMRLLLLLSCLAKTGVLGDIIMRPSCAPGWFYHKSNCYGYFRKLRNWSDAELECQSYGNGAHLASILSLKE
ASTIAEYISGYQRSQPIWIGLHDPQKRQOWQWIDGAMYLYRSWSGKSMGGNKHCAEMSSNNNFLTWSSNECNKRQ
HFLCKYRP

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FIGURE 1933

CACCGGTCCCCCTTCCTGCCAACGCTGCATTGGCTCGGGCCCGGTCCATGGCGGCCCTCGGACCCTGCGCTGA
GCCCCGGAGGCCAGGGCGTCCGGGGCTGCGCCACTTCCGAGGGCCGAGCGCTGCCGGTCCCGGCGGTGCGACACG
GCCCCGAGGAGGAGAACAACGCAAGGGGCTCAACCGTCGGTCGCTGGAGCCCCCCCCGGGGCGTGGCCTCCCGCC
CCCTCAGCTGGGGAGGGGCGGGGCTCGCTGCCCCCTGCTGCCGACTGCGACCCTTACAGGGGAGGGAGGGCGCAGG
GCGGAGATGAGGAGGAGGCTGCGCCTACGCAGGGACGCATTGCTCACGCTGCTCCTTGGCGCCTCCCTGGG
TTACTCTATGCGCAGCGCGACGGCGCGGCCCGACGGCGAGCGCGCCGCGAGGGCGAGGGAGGGCGGCACC
GCGCCACCCCGGACCCCGCGCGTTCCAGTTACCCGACGCGGGTGCAGCCCCGCGGCGCTACGAAGGGGACAC
AGGGCGCCCGCCACGCCTACGGGACCCTTTTGACTTCGCCCCGTATTTCGCGCCAAGGACCAGCGCGGTTTC
GCTCATTAAACAGCCGCACAAGTGCCGCGGCGACGGCGCACCCGGTGGCCGCGCGGACCTGCTTATTGCTG
AGTCGGTGGCAGAGGACTTCGAGCGGCGCCAAGCCGTGCGCCAGACGTGGGGCGCGGAGGGTTCGCTGCAGG
GCTGGTGC CGCGCTGTTCTTGCTGGGCGTGCCAGGGGCGCAGGCTCGGGCGGGGCCGACGAAGTTGGGG
GCGCGCAACCCACTGGCGCGCCCTGCTGCGGGCCGAGAGCCTTGCGTATGCGGACATCCTGCTCTGGGCCT
GACGACACCTTTTTTAACCTAACGCTCAAGGAGATCCACTTTCTAGCCTGGGCCTCAGCTTTCTGCCCCGACG
TCCGCTTCGTTTTTAAGGGCGACGCAGATGTGTTTCGTGAACGTGGGAAATCTCCTGGAGTTCTTGCGCCGCGGG
ACCCGGCGCAAGACCTGCTTGCTGGTGACGTAATTGTGCATGCGCGGCCCATCCGCACGCGGGCTAGCAAGTACT
ACATCCCCGAGGCCGTGTACGGCCTGCCCGCTATCCGGCCTACGCGGGCGGCGGTGGCTTTGTGCTTTCCGGGG
CCACGCTGCACCGCCTGGCTGGCGCCTGTGCGCAGGTCGAGCTCTTCCCATCGACGACGTCTTCTGGGCATGT
GTCTGCAGCGCCTGCGGCTCACGCCCCGAGCCTACCCCTGCCTTCCGCACCTTTGGCATCCCCAGCCTTCAGCCG
CGCCGCATTTGAGCACCTTCGACCCCTGCTTTTACCGTGAGCTGGTTGTAGTGACGGGCTCTCGGCCGCTGACA
TCTGGCTTATGTGGCGCCTGCTGCACGGGCGCATGGGCCAGCCTGTGCGCATCCACAGCCTGTGCTGCAGGCC
CCTTCCAATGGGACTCCTAGCTCCCCACTACAGCCCCAAGCTCCTAACTCAGACCCAGAATGGAGCCGTTTCCC
AGATTATTGCCGTGTATGTGGTCTTCCCTGATCACCAGGTGCCTGTCTCCACAGGATCCCAGGGGATGGGGGTT
AAGCTTGGCTCCTGGCGGTCCACCCTGCTGGAACAGTTGAAACCCGTGTAATGGTGACCCTTTGAGCGAGCCAA
GGCTGGGTGGTAGATGACCATCTCTTGTTCCAACAGGTCCCAGAGCAGTGATATGTCTGGTCCCTCCTAGTAGCAC
AGAGGTGTGTTCTGGTGTGGTGGCAGGGACTTAGGGAATCCTACCACTCTGCTGGATTGGAACCCCTAGGCTG
ACGCGGACGTATGCAGAGGCTCTCAAGGCCAGGCCCCACAGGGAGGTGGAGGGGCTCCGGCCGCCACAGCCTGAA
TTCATGAACCTGGCAGGCACCTTTGCCATAGCTCATCTGAAAACAGATATTATGCTTCCCAACCTCTCCTGGGC
CCAGGTGTGGCTGAGCACCAGGGATGGAGCCACACATAAGGGACAAATGAGTGCACGGTCTACCTAGTCTTTCC
TCACCTCCTGAACACACAACAATGCCAGTCTCCCACTGGAGGCTGTATCCCCCTCAGAGGAGCCAAGGAATGTC
TTCCCCTGAGATGCCACCACTATTAATTTCCCCATATGCTTCAACCACCCCTTGCTCAAAAAACCAATACCCAC
ACTTACCTTAATACAAACATCCCAGCAACAGCACATGGCAGGCCATTGCTGAGGGCACAGGTGCTTTATTGGAGA
GGGGATGTGGGCAGGGGATAAGGAAGGTTCCCCCATTCAGGAGGATGGGAACAGTCCTGGCTGCCCCTGACAGT
GGGGATATGCAAGGGGCTCTGGCCAGGCCACAGTCCAAATGGGAAGACACCAGTCAGTCACAAAAGTCGGGAGCG
CCACACAAACCTGGCTATAAGGCCAGGAACCATATAGGAGCCTGAGACAGGTCCCCTGCACATTTCATCATTAAA
CTATACAGGATGAGGCTGTACATGAGTTAATTACAAAAGAGTCATATTTACAAAATCTGTACACACATTTGAAA
AACTACAAAATTGTCATCTATGTATCACAAGTTGCTAGACCAAATATTAAAAATGGGATAAAATTATAAAAAA
AAAAAAAAAAAA

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FIGURE 1934

MRSATARPRRRARREGEGRHRGPPDPARSSYPTRVQPRRPTKGTHRRRPRLRDPFDFARYLRAKDQRRFPLLI
NQPHKCRGDGAPGGRPDLLIAVKSVAEDFERRQAVRQTWGAEGRVQGALVRRVFLLGVPRGAGSGGADEVGEGAR
THWRALLRAESLAYADILLWAFDDTFFNLTLKEIHFLAWASAFCPDVRFVFKGDADVFNVGNLLEFLAPRDPAQ
DLLAGDVIVHARPIRTRASKYYIPEAVYGLPAYPAYAGGGGFVLSGATLHRLAGACAQVELFPIDDVFLGMCLQR
LRLTPEPHPAFRTFGIPQPSAAPHLSTFDPCFYRELVVHGLSAADIWLMWRL LHGPHGPACAHQPVAAGPFQW
DS

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FIGURE 1935

AACGAAGCGTGCGCGCTTTGGTAACCGGCTAGAAATCCCGCACGCGCGCCTGCCTCCTCTCCCCAGGCCTGAGCT
GCCCCCTCCCACTGCCTTTTCCTTCTTCCCGCGAGTCAGAAGCTTCGCGAGGGCCAGAGAGGCGGTGGGGTGGGCG
ACCCTACGCCAGCTCCGGGCGGGAGAAAAGCCACCCCTCTCCCGCGCCCCAGGAAACCGCCGGCGTTTCGGCGCTGC
GCAGAGCCATGGAATTCTCCTGGCTGGAGACGCGCTGGGCGCGGCCCTTTTACCTGGCGTTTCGTGTTCTGCCTGG
CCCTGGGGCTGCTGCAGGCCATTAAGCTGTACCTGCGGAGGCAGCGGCTGCTGCGGGACCTGCGCCCCCTTCCAG
CGCCCCCACCACCTGGTTTCCTTGGGCACCAGAAGTTTATTTCAGGATGATAACATGGAGAAGCTTGAGGAAATTA
TTGAAAAATACCCTCGTGCCTTCCCTTTCTGGATTGGGCCCTTTTTCAGGCATTTTTCTGTATCTATGACCCAGACT
ATGCAAAGACACTTCTGAGCAGAACAGATCCCAAGTCCCAGTACCTGCAGAAATTCTCACCTCCACTTCTTGAA
AAGGACTAGCGGCTCTAGACGGACCCAAGTGGTTCCAGCATCGTCGCCTACTAACTCCTGGATTCCATTTTAAACA
TCCTGAAAGCATACATTGAGGTGATGGCTCATTCTGTGAAAATGATGCTGGATAAGTGGGAGAAGATTTGCAGCA
CTCAGGACACAAGCGTGGAGGTCTATGAGCACATCAACTCGATGTCTCTGGATATAATCATGAAATGCGCTTTCA
GCAAGGAGACCAACTGCCAGACAAACAGCACCCATGATCCTTATGCAAAAGCCATATTGAACTCAGCAAAATCA
TATTTACCGCTTGTACAGTTTGTGTATCACAGTGACATAATTTTCAAACCTCAGCCCTCAGGGCTACCGCTTCC
AGAAGTTAAGCCGAGTGTTGAATCAGTACACAGATACAATAATCCAGGAAAGAAAGAAATCCCTCCAGGCTGGGG
TAAAGCAGGATAACACTCCGAAGAGGAAGTACCAGGATTTTCTGGATATTGTCCTTTCTGCCAAGGATGAAAGTG
GTAGCAGCTTCTCAGATATTGATGTACACTCTGAAGTGAGCACATTCTGTTGGCAGGACATGACACCTTGGCAG
CAAGCATCTCCTGGATCCTTTACTGCCTGGCTCTGAACCCTGAGCATCAAGAGAGATGCCGGGAGGAGGTGAGG
GCATCCTGGGGGATGGGTCTTCTATCACTTGGGACCAGCTGGGTGAGATGTCGTACACCACAATGTGCATCAAGG
AGACGTGCCGATTGATTCTGCAGTCCCGTCCATTTCCAGAGATCTCAGCAAGCCACTTACCTTCCAGATGGAT
GCACATTGCCTGCAGGGATCACCGTGGTTCTTAGTATTTGGGGTCTTACCACAACCCCTGCTGTCTGGAAAAACC
CAAAGGTCTTTGACCCCTTGAGGTTCTCTCAGGAGAATTCTGATCAGAGACACCCCTATGCCTACTTACCATTCT
CAGCTGGATCAAGGAAGTGCATTGGGCAGGAGTTTGCCATGATTGAGTTAAAGGTAACCATGCTTGGATTCTGC
TCCACTTCAGAGTGACTCCAGACCCACCAGGCCTCTTACTTTCCCCAACCATTTTATCCTCAAGCCCCAAGAATG
GGATGTATTTGCACCTGAAGAACTCTCTGAATGTTAGATCTCAGGGTACAATGATTAAACGTACTTTGTTTTTC
GAAGTTAAATTTACAGCTAATGATCCAAGCAGATAGAAAGGGATCAATGTATGGTGGGAGGATTGGAGGTTGGTG
GGATAGGGGTCTCTGTGAAGAGATCCAAAATCATTCTAGGTACACAGTGTGTGCTAGCTAGATCTGTTTCTATATA
ACTTTGGGAGATTTTTCAGATCTTTTCTGTAAACTTTCCTACTATTAATGCTGTATACACCAATAGACTTTTCAT
ATATTTTCTGTTGTTTTTAAAATAGTTTTTCAGAAATTATGCAAGTAATAAGTGCATGTATGCTCACTGTCAAAAAT
TCCCAACACTAGAAAATCATGTAGAATAAAAATTTTAAATCTCACTTCACTTAGCCGACATTCCATGCCCTGACC
AATCCTACTGCTTTTCTTAAAAACAGAATAATTTGGTGTGCATTCTTTCAGACTTTTTCCTATACATTTTATATG
TAGAAATGTAGCAATGTATTTGTATAGATGTGATCATTCCTATATTGTTATTGATTTTTTTTCACTTAATAAAAAT
TCACCTTATTCCTTAAAA

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FIGURE 1936

MEFSWLETRWARPFYLAFVFCLALGLLQAIKLYLRRQRLRLRPFPPAPPTHWFLGHQKFIQDDNMEKLEEIIEK
YPRAFPFWIGPFQAFFCIYDPDYAKTLLSRDTPKSQYLQKFSPLLKGKGLAALDGPKWFQHRLLTPGFHFNILK
AYIEVMAHSVKMMLDKWEKICSTQDTSVEVYEHINSMSLDIIMKCAFSKETNCQTNSTHDPYAKAIFELSKIIFH
RLYSLLYHSDIIFKLSPQGYRFQKLSRVLNQYTDIIQERKKSLOAGVKQDNTPKRKYQDFLDIVLSAKDESGSS
FSDIDVHSEVSTFLLAGHDTLAASISWILYCLALNPEHQERCREEVRGILGDGSSITWDQLGEMSYTTMCIKETC
RLIPAVPSISRDLKPLTFPDGCTLPAGITVVL SIWGLHHNPAVWKNPKVFDPLRFSQENSQQRHPYAYLPFSAG
SRNCIGQEFAMIELKVTIALILLHFRVTPDPTPLTFPNHFILKPKNGMYLHLKKLSEC

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FIGURE 1937

GTTTTTTTCCCTTCTGAGCAATGGAGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCT
TGTACCTGCTGAACCTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCCTACTTCTTGGTGAGGTTCA
CTGTGATATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGCGGGCCCCCT
CCGGGAAACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGG
TGACCTGTATTGACCCCAACCCCACTTTGAGAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGT
TTGAGCGCTTTGTGGTAGCTGCCGGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCA
CCCTGGTGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGCTGAGACCGGGAGGGG
CTTTCTATTTTCATGGAGCATGTGGCAGCTGAGTGTTCGACTTGGAATTACTTCTGGCAACAAGTCTGGATCCTG
CCTGGCACCTTCTGTTTGATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTA
AGCTGAAGCTGCAGCACATCCAGGCCCCACTGTCCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGA
AATAGTGTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTACATTTAAAATGCTAA
GTGGGAGAAGAGAAACCTTTTTTTTGGGGGGCGGTTTTTTTGGTTTGTGTGGTTTTTTTTTTTTTTTGGCAA
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAGTAGAGACAGGGAGACAGGGTCTCACTGTGTTGCCTAG
GCCGGTCTTGAACCTCCTGGGCTCAAGTGATTCTCCACCTTGACCTCCTAAATTGTTGGGATTACAGGTGTGAGA
CAGTGCACCTGGCCGAAATAGCTCAAGTTTCTGAAAAACAAATCTGAATCTATTTGTTATTCTTAGCGTCACTGG
TCTGGCTTTCAGAATTAACATACAAGGTTGCCACACCTAGTTCTGCCCAGCTTTATGTCTTTTATTCCAGTATTC
CACCAAAGTTTGTTCCTGCATTCCAGTTCTCAAGTCTTAAGATAAAGATTGTACTTGACAGTTTAGTATATCC
ATAAACTATTTGAGGTGGTTAAGGTTCTTGGGTTCAATTTCCCTTAATACTTTGCTGAATATTGTAGATTGTAGG
CAATGAAAAAGTCTACTAAATTAGGAAAACCTTGAATAATTAGGTATCCTAGGTAAGAGCCCCCTAAACATCAAGC
AATCTGTGAGTCTGTAAAGAAATAAATATTTTTTGGATTATTCTTATCTAATTCCACCCCTGTTGGAAGATGATT
TCTTTGTTCTTTGCAACTATGGAAGCTGTGAAAATCATCACAAGTGCCTCTGAAAGCGAGTGTTAGGTTGGTTAG
AGGGTTTAATATTTTCTGCAATGGTTTGTAGGAATTTTAATAAATGTAGTATATTTTCTGAGATGATTTTGTAAA
AGTACTATTTTAAATATCAAATCAACCAATAAATTCACATTTGTGTTAGGAACAG

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FIGURE 1938

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFPYFLVRFTVIYNEQMASKKRELF SNLQEFAGPSGKLSLL
EVGCGTGANFKFYPPGCRVICIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVCTLVLCV
KNQERILREVCRLRPGGAFYFMEHVAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASFSLKLQHI
QAPLSWELVRPHIYGAVK

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FIGURE 1939

AAAGAAACCCGAGACGTTCCGAAGTCAACGCAAGCAAAGGGGAGTGCGGGTCGGGGAGGAATATTCTTTTGAAA
CGTAATATTGGCCTTGGGGCTCTCCAGCCCTTTGGGACTTCCAATGGGATCTTAGAAGCAGCCGAAGCAGCGTGA
GGGCGGCAGCCCAGGGCCAGCCACGATTGAAACGCTCTGCCCTTGACGCTCTTCTGGACCGAGGAGCCCAAAGCCC
TACCCTCACCATTACCCAGGTCCTGTGGGAAGAGCAGCGTGGAGGTGGGCTGAGGTTAGAAGGTGCAGAGCGTGG
AAAGATTGTGAGCTGAGTATTGGACATCTGTTCTTGAATAGTCCCTGGGCCTGCCATAGGAAAGGAAGTTCTC
GTTACAGTTCTTATCCGCGTGAATACACATGGCTCTGTTACGAAAAATTAATCAGGTGCTGCTGTTTCCTTC
ATCGTGACCCTCTGTGTGATTCTGTATAAGAAAGTTTCATAAGGGGACTGTGCCAAGAATGACGCAGATGATG
AATCCGAGACTCCTGAAGAACTGGAAGAAGAGATTCCCTGTGGTGATTTGTGCTGCAGCAGGGAGGATGGGTGCCA
ATGGCTGCCATCAATAGCATCTACAGCAACACTGACGCCAACATCTTGTTCATGTAGTGGGACTCCGGAATA
GACTCGAATACGAAAATGGATTGAACATTCCAACTGAGAGAAATAAACTTTAAATCGTGGAATTC AACC
GGTCCTCAAAGGGAAGATCAGACCAGACTCATCGAGGCCTGAATTGCTCCAGCCTCTGAACCTTGTTCGAT
ATCTCCCTCTACTTATCCACCAACACGAGAAAGTCATCTATTTGGACGATGATGTAATTGTACAAGGTGATA
CAAGAACTGTATGACACCACCTTGGCCCTGGGCCACGCGGCGGCTTTCTCAGATGACTGCGATTTGCCCTCTG
CAGAGACATAAACAGACTCGTGGGACTTCAGAACACATATATGGGCTATCTGGACTACCGGAAGAAGGCCATCA
AGGACCTTGGCATCAGCCCCAGCACCTGCTCTTTCAATCCTGGTGTGATTGTTGCCAACATGACAGAATGGAAGC
ACCAGCGCATCACCAAGCAATTGGAGAAATGGATGCAAAAGAATGTGGAGGAAAACCTCTATAGCAGCTCCCTGG
GAGGAGGGGTGGCCACCTCCCCAATGCTGATTGTGTTTCATGGGAAATATCCACAATTAACCCCTGTGGCACA
TAAGGCACCTGGGCTGGAATCCAGATGCCAGATATTCGGAGCATTTTCTGCAGGAAGCTAAATTACTCCACTGGA
ATGGAAGACATAAACCTTGGGACTTCCCTAGTGTTCACAACGACTTATGGGAAAGCTGGTTTGTTCCTGACCTG
CAGGGATATTTAAACTCAATCACCATAGCTGATATAACTCTACCCTTAAATATTCCTGTATAGAAATGTGGAA
TTGTCCCTTTGTAGCCAACATATAACATTGTTCTTTATGAATATTACCTTTGATACATATGATCCACAATATAAAA
ACCAAAAACCTACTGTGTGCAAATTATACCTTGGACCATATAGGCATTGATTAACCTTCTTTAAGTACATGTGATAA
CTATGGAAATCAAGATTATGTGACTGAAAAACATAAAGGAAGAGACCCATCTAGATAACAGCAATCAACCTGCTT
AATTCTGAATGACAATTATATCCACAAATTTTTTAAACTTCTACATGTATTTTTCACATGAAGATCTCCTTAACA
GGTTGCCAACCTTTTCTTTTATAAACTATTACATTTAAATATGGACGCTGAAAAATAAAATATTCATCATTT
TTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1940

MALLRKINQVLLFLLIVTLCVILYKKVHKGTVPKNDADDESETPEELEEIPVVICAAAGRMGATMAAINSISN
TDANILFYVVGRLRNTLTRIRKWIEHSLREINFKIVEFNPMVLKGKIRPDSSRPPELLQPLNFVRFYLPLLIHQHE
KVIYLDLDDVIVQGDIQELYDTTLALGHAAAFSDDCDLPSAQDINRLVGLQNTYMGYLDYRKKAIKDLGISPSTCS
FNPGVIVANMTEWKHQRTKQLEKWMQKNVEENLYSSSLGGGVATSPMLIVFHGKYSTINPLWHIRHLGWNPDAR
YSEHFLQEAKLLHWNGRHKPWDFPSVHNDLWESWFVPDPAGIFKLNHHS

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FIGURE 1941

TACTTCTAAATAAATGAATTACTCAATCTCCTATGACCATCTATACATACTCCACCTTCAAAAAGTACATCAATA
TTATATCATTAAAGGAAATAGTAACCTTCTCTTCTCCAATATGCATGACATTTTTAGACAATGCAATTGTGGCACT
GGCACTTATTTTCAGTGAAGAAAACTTTGTGGTTCTATGGCATTTCATCTTTGACAAATGCAAGCATCTTCCTTA
TCAATCAGCTCCTATTGAACTTACTAGCACTGACTGTGGAATCCTTAAGGGCCATTACATTTCTGAAGAAGAAA
GCTAAGATGAAGGACATGCCACTCCGAATTCATGTGCTACTTGGCCTAGCTATCACTACACTAGTACAAGCCGTA
GATAAAAAAGTGGATTGTCCACGGTTATGTACGTGTGAAATCAGGCCTTGGTTTACACCCAGATCCATTTATATG
GAAGCATCTACAGTGGATTGTAATGATTTAGGTCTTTTAACTTTCCCAGCCAGATTGCCAGCTAACACACAGATT
CTTCTCCTACAGACTAACAATATTGCAAAAATTGAATACTCCACAGACTTTCCAGTAAACCTTACTGGCCTGGAT
TTATCTCAAAACAATTTATCTTCAGTCACCAATATTAATGTAAAGAAGATGCCTCAGCTCCTTTCTGTGTACCTA
GAGGAAAACAAACTTACTGAACTGCCTGAAAAATGTCTGTCCGAACCTGAGCAACTTACAAGAACTCTATATTAAT
CACAACCTTGCTTTCTACAATTTACCTGGAGCCTTTATTGGCCTACATAATCTTCTTCGACTTCATCTCAATTCA
AATAGATTGCAGATGATCAACAGTAAGTGGTTTGATGCTCTTCCAAATCTAGAGATTCTGATGATTGGGGAAAAAT
CCAATTATCAGAATCAAAGACATGAACCTTTAAGCCTCTTATCAATCTTCGCAGCCTGGTTATAGCTGGTATAAAC
CTCACAGAAAATACCAGATAACGCCTTGGTTGGACTGGAAAACTTAGAAAGCATCTCTTTTTACGATAACAGGCTT
ATTAAAGTACCCCATGTTGCTCTTCAAAAAGTTGTAAATCTCAAAATTTTGGATCTAAATAAAAAATCCTATTAAT
AGAATACGAAGGGGTGATTTTAGCAATATGCTACACTTAAAAGAGTTGGGGATAAATAATATGCCTGAGCTGATT
TCCATCGATAGTCTTGCTGTGGATAACCTGCCAGATTTAAGAAAAATAGAAGCTACTAACAACCCTAGATTGTCT
TACATTCACCCCAATGCATTTTTTCAGACTCCCCAAGCTGGAATCACTCATGCTGAACAGCAATGCTCTCAGTGCC
CTGTACCATGGTACCATTGAGTCTCTGCCAAACCTCAAGGAAATCAGCATACACAGTAACCCCATCAGGTGTGAC
TGTGTCATCCGTTGGATGAACATGAACAAAACCAACATTCGATTTCATGGAGCCAGATTCACTGTTTTGCGTGGAC
CCACCTGAATTCGAAGGTCAGAATGTTTCGGCAAGTGCATTTCAGGGACATGATGGAAATTTGTCTCCCTCTTATA
GCTCCTGAGAGCTTTCCCTTCTAATCTAAATGTAGAAGCTGGGAGCTATGTTTCCTTTCACTGTAGAGCTACTGCA
GAACCACAGCCTGAAATCTACTGGATAACACCTTCTGGTCAAAAACCTCTTGCCTAATACCCTGACAGACAAGTTC
TATGTCCATTCTGAGGGAACACTAGATATAAATGGCGTAACTCCCAAAGAAGGGGGTTTATATACTTGTATAGCA
ACTAACCTAGTTGGCGCTGACTTGAAGTCTGTTATGATCAAAGTGGATGGATCTTTTCCACAAGATAACAATGGC
TCTTTGAATATTAAAATAAGAGATATTAGGCCAATTCAGTTTTGGTGTCTTGGAAAGCAAGTTCTAAAAATCTC
AAATCTAGTGTTAAATGGACAGCCTTTGTCAAGACTGAAAATTCTCATGCTGCGCAAAGTGCTCGAATACCATCT
GATGTCAAGGTATATAATCTTACTCATCTGAATCCATCAACTGAGTATAAAATTTGTATTGATATTCCCACCATC
TATCAGAAAAACAGAAAAAATGTGTAAATGTCACCACCAAGGTTTGCACCCTGATCAAAAAGAGTATGAAAAG
AATAATACCACAACACTTATGGCCTGTCTTGGAGGCCTTCTGGGGATTATTGGTGTGATATGTCTTATCAGCTGC
CTCTCTCCAGAAATGAACTGTGATGGTGGACACAGCTATGTGAGGAATTACTTACAGAAACCAACCTTTGCATTA
GGTGAGCTTTATCCTCCTCTGATAAATCTCTGGGAAGCAGGAAAAGAAAAAGTACATCACTGAAAGTAAAAGCA
ACTGTTATAGGTTTACCAACAAATATGTCCTAAAAACCACCAAGGAAACCTACTCCAAAAATGAACAAAAA

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FIGURE 1942

MKDMPLRIHVLLGLAITTLVQAVDKKVDPCRLCTCEIRPWFTPRSIYMEASTVDCNDLGLLTFPARLPANTQILL
LQTNNIAKIEYSTDFPVNLTGLDLSQNNLSSVTNINVKKMPQLLSVYLEENKLTPEKCLSELSNLQELYINHN
LLSTISPGAFIGLHNLLRLHLNSNRLQMINSKWFDALPNLEILMIGENPIIRIKDMNFKPLINLRSLVIAGINLT
EIPDNALVGLENLEISFYDNRLIKVPHVALQKVNLKFLDLNKNPINRIRRGDFSNNMLHLKELGINNMPELISI
DSLAVDNLPDLRKIEATNNPRLSYIHPNAFFRLPKLESLMLNSNALSALYHGTIESLPNLKEISIHSPNIRCD CV
IRWMNMNKTNIRFMEPDSLFCVDPPEFQGQNVVRQVHFRDMMEICLPLIAPESFPSNLNVEAGSYVSFHCRTAE
QPEIYWITPSGQKLLPNTLTDKFYVHSEGLDINGVTPKEGGLYTCIATNLVGADLKSVMIKVDGSFPQDNNGSL
NIKIRDIQANSVLVSWKASSKILKSSVKWTAFVKTENSHAAQSARIPSDVKVYNLTHLNPSTEYKICIDIPTIYQ
KNRKKCVNVTTKGLHPDQKEYEKNNTTTLMACLGGLLGIIGVICLISCLSPENMCDGGHSYVRNYLQKPTFALGE
LYPPLINLWEAGKEKSTSLKVKATVIGLPTNMS

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FIGURE 1943

GTGCGGTCCGTCGGTGGCCTAGAGATGCTGCTGCCGCGGTTGCAGTTGTCGCGCACGCCTCTGCCCGCCAGCCCG
CTCCACCGCCGTAGCGCCCGAGTGTGCGGGGGCGCACCCGAGTCGGGGCCATGAGGCCGGGAACCGCGCTACAGGC
CGTGCTGCTGGCCGTGCTGCTGGTGGGGCTGCGGGCCGCGACGGGTGCGCTGCTGAGTGGGCAGCCAGTCTGCCG
GGGAGGGACACAGAGGCCTTGTTATAAAGTCATTTACTTCCATGATACTTCTCGAAGACTGAACTTTGAGGAAGC
CAAAGAAGCCTGCAGGAGGGATGGAGGCCAGCTAGTCAGCATCGAGTCTGAAGATGAACAGAACTGATAGAAAA
GTTTCATTGAAAACCTCTTGCCATCTGATGGTGACTTCTGGATTGGGCTCAGGAGGCGTGAGGAGAAAACAAAGCAA
TAGCACAGCCTGCCAGGACCTTTATGCTTGGACTGATGGCAGCATATCACAATTTAGGAACTGGTATGTGGATGA
GCCGTCCTGCGGCAGCGAGGTCTGCGTGGTCATGTACCATCAGCCATCGGCACCCGCTGGCATCGGAGGCCCTA
CATGTTCCAGTGGAATGATGACCGGTGCAACATGAAGAACAATTTCAATTTGCAAATATTCTGATGAGAAACCAGC
AGTTCCTTCTAGAGAAGCTGAAGGTGAGGAAACAGAGCTGACAACACCTGTACTTCCAGAAGAAACACAGGAAGA
AGATACCAAAAAACATTTAAAGAAAGTAGAGAAGCTGCCTTGAATCTGGCCTACATCCTAATCCCCAGCATTCC
CCTTCTCCTCCTCCTTGTGGTCACCACAGTTGTATGTTGGGTTTGGATCTGTAGAAAAAGAAAACGGGAGCAGCC
AGACCCTAGCACAAAGAAGCAACACACCATCTGGCCCTCTCCTCACCAGGGAACAGCCCGGACCTAGAGGTCTA
CAATGTCATAAGAAAACAAAGCGAAGCTGACTTAGCTGAGACCCGGCCAGACCTGAAGAATATTTTCATTCCGAGT
GTGTTCCGGGAGAAGCCACTCCCGATGACATGTCTTGTGACTATGACAACATGGCTGTGAACCCATCAGAAAGTGG
GTTTGTGACTCTGGTGAGCGTGGAGAGTGGATTTGTGACCAATGACATTTATGAGTTCTCCCCAGACCAATGGG
GAGGAGTAAGGAGTCTGGATGGGTGGAAAATGAAATATATGGTTATTAGGACATATAAAAACTGAACTGACAA
CAATGGAAAAGAAATGATAAGCAAAATCCTCTTATTTTCTATAAGGAAAATACACAGAAGGTCTATGAACAAGCT
TAGATCAGGTCCTGTGGATGAGCATGTGGTCCCCACGACCTCCTGTTGGACCCCCACGTTTTGGCTGTATCCTTT
ATCCCAGCCAGTCATCCAGCTCGACCTTATGAGAAGGTACCTTGCCCAGGTCTGGCACATAGTAGAGTCTCAATA
AATGTCACCTTGTTGGTTGTATCCAACTTTTAAGGGACAGAGCTTTACCTGGCAGTGATAAAGATGGGCTGTGGA
GCTTGGAAAACCACCTCTGTTTTCTTGCTCTATACAGCAGCACATATTATCATACAGACAGAAAATCCAGAATC
TTTTCAAAGCCACATATGGTAGCACAGGTTGGCCTGTGCATCGGCAATTCTCATATCTGTTTTTTTCAAAGAAT
AAAATCAAATAAAGAGCAGG

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FIGURE 1944

MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRRGTQPCYKVIYFHDTSRRLNFEEAKEACRRDGGQLVSI
EDEQKLIKFIENLLPSDGDWIGLRRREEKQSNSTACQDLYAWTDGSIQFRNWYVDEPSCGSEVCVVMYHOPS
APAGIGGPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGEETELTPVLPEETQEEDTKKTFKESREAALNL
AYILIPSIPLLLLLVTTVVCWVWICRKRKREQPD PSTKKQHTIWPSPHQGNSPDLEVYNVIRKQSEADLAETRP
DLKNISFRVCSGEATPDDMSCDYDNMAVNPSSESGFVTLVSVESGFVTNDIYEFSPDQMGRSKESGWVENEIYGY

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FIGURE 1945

GGCACGAGGGATGCAAGGAGATGAGACAGTTAGATTTACTTCCTCTTTTCTAATCTGAGAGGTTTCATGTTGAAG
AAAATCAGTGTTGGGGTTGCAGGAGACCTAAACACAGTCACCATGAAGCTGGGCTGTGTCTCATGGCCTGGGCC
CTCTACCTTTCCCTTGGTGTGCTCTGGGTGGCCAGATGCTACTGGCTGCCAGTTTTGAGACGCTGCAGTGTGAG
GGACCTGTCTGCACTGAGGAGAGCAGCTGCCACACGGAGGATGACTTGACTGATGCAAGGGAAGCTGGCTTCCAG
AAGGCCTACACTTTCAGTGAACCCCTCCACCTGATTGTGTCTATGACTGGCTGATCCTCCAAGGTCCAGCC
CAGTTTTTGAAGGGGACCTGCTGGTCTGCGCTGCCAGGCCTGGCAAGACTGGCCACTGACTCAGGTGACC
FACCGAGATGGCTCAGCTCTGGGTCCCCCGGGCCTAACAGGGAATTCTCCATCACCGTGGTACAAAAGGCA
GACAGCGGGCACTACCACTGCAGTGGCATCTTCAGAGCCCTGGTCTGGGATCCCAGAAAACAGCATCTGTTGTG
ATCACAGTCCAAGAACTGTTCCAGCGCCAATTCTCAGAGCTGTACCCTCAGCTGAACCCCAAGCAGGAAGC
LATGACCCCTGAGTTGTCAGACAAAGTTGCCCTGCAGAGGTCAGCTGCCCCGCTCCTCTTCTCCTTCTACAAG
GAAGGATAGTGCAAAGCAGGGGGCTCTCCTCAGAATTCCAGATCCCCACAGCTTCAGAAGATCACTCCGGG
TACTGGTGTGAGGCAGCCACTGAGGACAACCAAGTTTGAAACAGAGCCCCCAGCTAGAGATCAGAGTGCAG
CTGCTTCCAGCTCTGCTGCACCTCCCACATTGAATCCAGCTCCTCAGAAATCAGCTGCTCCAGGAAGTCTCCT
CAGGAGGCCCCCTGGGCCTCTGCCTCCGCCGCCAACCCCATCTTCTGAGGATCCAGGCTTTTCTTCTCCTCTGGGG
ATGCCAGATCCTCATCTGTATCACCAGATGGGCCTTCTTCTCAAACACATGCAGGATGTGAGAGTCTCCTCGGT
CACCTGCTCATGGAGTTGAGGGAATTATCTGGCCACCAGAAGCCTGGGACCACAAAGGCTACTGCTGAATAGAAG
TAAACAGTTTCATCCATGATCTCACTTAACACCCCAATAAATCTGATTCTTTATTTTCTTCTCCTGTCTGCACA
TATGCATAAGTACTTTTACAAGTTGTCCAGTGTTTTGTTAGAATAATGTAGTTAGGTGAGTGTAATAAATTTA
TATAAAGTGAGAATTAGAGTTTAGCTATAATTGTGTATTCTCTCTTAACACAACAGAATTCTGCTGTCTAGATCA
GGAATTTCTATCTGTTATATCGACCAGAATGTTGTGATTTAAAGAGAACTAATGGAAGTGGATTGAATACAGCAG
TCTCAACTGGGGGCAATTTTGCCCCCAGAGGACATTGGGCAATGTTGGAGACATTTTGGTCATTATACTTGGG
GGGTGGGGGATGGTGGGATGTGTGTGCTACTGGCATCCAGTAAATAGAAGCCAGGGGTGCCGCTAAACATCCTA
TAATGCACAGGGCAGTACCCACAACGAAAAATAATCTGGCCCCAAATGTCAGTTGTACTGAGTTTGAGAAACCC
CAGCCTAATGAAACCCTAGGTGTTGGGCTCTGGAATGGGACTTTGTCCCTTCTAATTATTATCTCTTTCCAGCCT
CATTGAGCTATTCTTACTGACATAACAGTCTTTAGCTGGTGCTATGGTCTGTTCTTTAGTTCTAGTTTGTATCCC
CTCAAAAGCCATTATGTTGAAATCCTAATCCCCAAGGTGATGGCATTAGAAGTGGGCCTTTGGGAAGTGATTAG
ATCAGGAGTGCAGAGCCCTCATGATTAGGATTAGTGCCCTTATTTAAAAAGGCCCCAGAGAGCTAACTCACCCCTT
CCACCATATGAGGACGTGGCAAGAAGATGACATGTATGAGAACCAAAAAACAGCTGTGCCCCAACACCGACTCTG
TCGTTGCCTTGATCTTGAACCTCCAGCCTCCAGAACTATGAGAAATAAAATTCTGTTGTTTGTAAAAA
AAAAAA

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FIGURE 1946

MKLGCVLMAWALYLSLGVLWVAQMLLAASFETLQCEGPVCTEESCHTEDDLTDAREAGFQVKAYTFSEPFHLIV
SYDWLILQGPAKPVFEGDLLVLRCAWQDWPLTQVTFYRDGSALGPPGPNREFSITVVQKADSGHYHCSGIFQSP
GPGIPETASVVAITVQELFPAPILRAVPSAEPQAGSPMTLSCQTKLPLQRSAARLLFSFYKDGRIVQSRGLSSEF
QIPTASEDHSGSYWCEAATEDNQVWKQSPQLEIRVQGASSAAPTLPAPQKSAAPGTAPEEAPGPLPPPPTPS
SEDPGFSSPLGMPDPHLYHQMGLLLKHMQDVRVLLGHLLMELRELSGHQKPGTTKATAE

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FIGURE 1947

AGGAATAAAACCACAGAAGAAAATGGAGAGAAGGGGACTGAAATATTCAGAGCTTCTGCAGTGATTCCCAGCAAG
GACAAAGCCGCCTTTTTCTGAGTTATGAGGAGCTTCTGCAGAGGCGCCTGGGCAAGTACGAGCACAGCATCAGC
GTGCGGCCCCAGCAGCTGTCCGGGAGGCTGAGCGTGACGTGAATATCCTGGAGAGCGCGGGCATCGCATCCCTG
GAGGTGCTGCCGCTTCACAACAGCAGGCAGAGGGGCGAGTGGGCGCGGGGAAGATGATTCTGGGCTCCCCATCT
ACTGTCATTAACCAAAATGAAACATTTGCCAACATAATTTTTAAACCTACTGTAGTACAACAAGCCAGGATTGCC
CAGAATGGAATTTTGGGAGACTTTATCATTAGATATGACGTCAATAGAGAACAGAGCATTGGGGACATCCAGGTT
CTAAATGGCTATTTTGTGCACTACTTTGCTCCTAAAGACCTTCCTCCTTTACCCAAGAATGTGGTATTTCGTGCTT
GACAGCAGTGCTTCTATCGTGGGAACCAAACTCCGGCAGACCAAGGATGCCCTCTTCACAATTCTCCATGACCTC
CGACCCAGGACCGTTTCAGTATCATTGGATTTTCCAACCGGATCAAAGTATGGAAGGACCACTTGATATCAGTC
ACTCCAGACAGCATCAGGGATGGGAAAGTGTACATTACCATATGTACCCACTGGAGGCACAGACATCAACGGG
GCCCTGCAGAGGGCCATCAGGCTCCTCAACAAGTACGTGGCCACAGTGGCATTGGAGACCGGAGCGTGTCCCTC
ATCGTCTTCTGACGGATGGGAAGCCCACGGTCGGGGAGACGCACACCCTCAAGATCCTCAACAACACCCGAGAG
GCCGCCCCGAGGCCAAGTCTGCATCTTCACCATTTGGCATCGGCAACGACGTGGACTTCAGGCTGCTGGAGAACTG
TCGCTGGAGAACTGTGGCCTCACACGGCGCGTGCACGAGGAGGAGGACGCGAGGCTCGCAGCTCATCGGGTTCTAC
GATGAAATCAGGACCCCGCTCCTCTCTGACATCCGCATCGATTATCCCCCAGCTCAGTGGTGCAGGCCACCAAG
ACCCTGTTCCCCAACTACTTCAACGGCTCGGAGATCATCATTGCGGGGAAGCTGGTGGACAGGAAGCTGGATCAC
CTGCACGTGGAGGTCACCGCCAGCAACAGTAAGAAATTCATCATCCTGAAGACAGATGTGCCTGTGCGGCCTCAG
AAGGCAGGGAAAGATGTCACAGGAAGCCCCAGGCCTGGAGGCGATGGAGAGGGGGACCCCAACCACACCGAGCGT
CTCTGGAGCTACCTCACCACAAAGGAGCTGCTGAGCTCCTGGCTGCAAAAGTGACGATGAACCGGAGAAGGAGCGG
CTGCGGCAGCGGGCCAGGCCCTGGCTGTGAGCTACCGCTTCTCACTCCCTTCACCTCCATGAAGCTGAGGGGG
CCGGTCCCACGCATGGACGGCCTGGAGGAGGCCCCACGGCATGTGCGCTGCCATGGGACCCGAACCGGTGGTGCAG
AGCGTGCGAGGAGCTGGCACGCAGCCAGGACCTTTGCTCAAGAAGCCATACCAGCCAAGAATTAAATCTCTAAA
ACATCAGTTCTGTGGCTTCAGAAGGGAAGAACAGATTTTTTCAAATGTCATGAAATTTCTTTTGCCAGCATCCTG
GAACTATAATAAAATTCAGAGGAAAGAACAACTATGACTGGGTTTTGTTCTGCTGTGTCCAGATCATCCTCTG
GAAGTCTTGATTGTTGCCTTTCTGCTGCTGTGCTGTACGTGCAAGTTCCTAAAGCCAGGGACATCCCGGAGATGA
GCTGTGGATATAGAGTCCGCACAGCCTGCGGGAGACAGAATGTAATTCCTTCCAACACACACACAGGCTTTAT
GGAATGCCAGAAAAGCTTCCTCTTGATGCTGCCTGGAGTAATGACTTTTTTGACCCTCCCCTCTTTTTTGGAGCA
AGCACTATCTTTCCTTGTAAGGAATTTGGACAATTTGAGTAGAAATGGTGTGGTATGTGCACATAGAAACTCTC
AGAAAACGTGTCAGATGAGCTAGACAGTTGTCCTCTATCTCCATGGGTCCCGCATCCAAGGATCGAACCAACAAC
AGATCAAAAATACGTGAAAAAGGAATTGCATCTGTATTGAATGTGTACGGACTTTTTTTCTTGTCTTTGTTTCCTT
AAACAATGTAGTGTAACAACTATTTACATCGCATCTCCTTTGCATTCAATTATTATAAGTAACTAGAGATGATTT
AAAGTGTATAGAAAGGCTGCGTGCAGTGGCTAATGTCTGTAATCCCAGCACTTTGAGAGGCCGAGGCAGGTGGAT
CACCTGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACGTGGTGAACCCCATCTCTACTAAAAATACAATAATTA
GCTGGGCATGGTGGTGCACGCCTGTAATCCCAGCTATTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGA
GGCAGAGATTGCAGTGAACCGAGATTGCACCATTTGCACTCCAGCCTGGGTGACAGAGTGAACCTCCGTCTCAAAA
ACAAAATAAATAAATAAGAATAAAAT

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FIGURE 1948

MVGTKLRQTKDALFTILHDLRPQDRFSIIIGFSNRIKVWKDHLISVTPDSIRDGKVYIHHMSPTGGTDINGALQRA
IRLLNKYVAHSGIGDRSVSLIVFLTDGKPTVGETHTLKIILNNTREAAARGQVCIFTIGIGNDVDFRLEKLSLENC
GLTRRVHEEEDAGSQLIGFYDEIRTPLLSDIRIDYPPSSVVQATKTLFPNYFNGSEIIIIAGKLVDRLDHLHVEV
TASNSKKFIIILKTDVPVRPQKAGKDVGTGSPRPGDGEGDPNHTERLWSYLTTKELLSSWLQSDDEPEKERLRQRA
QALAVSYRFLTPFTSMKLRGPVPRMDGLEEAHGMSAAMGPEPVVQSVRGAGTQPGPLLKKPYQPRIKISKTSVRG
FRREEQIFSVMKFPFASILEL

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FIGURE 1949

GTGGCTTGGTATTCACTGGCAGGTTTCAGACATTTAGATCTTTCTTTTAATGACTAACACCATGCCTATCTGTGG
AGAAGCTGGCAACATGTACACCTGGAAATTGTTTTTCAACATTAATACTATTATTTGGCAGTAATCCAGATTGC
TTTTGCCACCAACCTGAAGACATATAGAGGCAGAAGGACAGGAATAATTCTATTTGTTTCCTGTTTTGAAACTTC
CATCTGTAAGGCTATCAAAAGGAGATGTGAGAGAGGGTATTGAGTCTGGCCTGACAATGCAGTTCTTAAACCAAA
GGTCCATTATGCTTCTCCTCTCTGAGAATCCTGACTTACCTCAACAACGGAGACATGGCACAGTAGCCAGCTTGG
AGACTTCTCAGCCAATGCTCTGAGATCAAGTGAAGACCCAATATACAGGGTTTTGAGCTCATCTTCATCATTCA
TATGAGGAAATAAGTGGTAAATCCTTGGAAATACAATGAGACTCATCAGAAACATTTACATATTTTTGTAGTATT
GTTATGACAGCAGAGGGTGATGCTCCAGAGCTGCCAGAAGAAAGGGAAGTATGACCAACTGCTCCAACATGTCT
CTAAGAAAGGTTCCCGCAGACTTGACCCAGCCACAACGACACTGGATTTATCCTATAACCTCCTTTTTCAACTC
CAGAGTTCAGATTTTCACTTGTCTCCAACTGAGAGTTTTGATTCTATGCCATAACAGAATTCACAGCTGGAT
CTCAAAACCTTTGAATTCAACAAGGAGTTAAGATATTTAGATTTGTCTAATAACAGACTGAAGAGTGAACCTGG
TATTTACTGGCAGGTCTCAGGTATTTAGATCTTTCTTTTAATGACTTTGACACCATGCCTATCTGTGAGGAAGCT
GGCAACATGTACACCTGGAAATCCTAGGTTTGAGTGGGGCAAAAATACAAAATCAGATTTCCAGAAAATTGCT
CATCTGCATCTAAATACTGTCTTCTTAGGATTGAGAACTCTTCCTCATTATGAAGAAGGTAGCCTGCCCATCTTA
AACACAACAAAACCTGCACATTGTTTTACCAATGGACACAAATTTCTGGGTTCTTTTGGCTGATGGAATCAAGACT
TCAAAAATATTAGAAATGACAAATATAGATGGCAAAAGCCAATTTGTAAGTTATGAAATGCAACGAAATCTTAGT
TTAGAAAATGCTAAGACATCGGTTCTATTGCTTAATAAAGTTGATTTACTCTGGGACGACCTTTTCCTTATCTTA
CAATTTGTTTGGCATAACATCAGTGGAAACACTTTTCAGATCCGAAATGTGACTTTTGGTGGTAAGGCTTATCTTGAC
CACAATTCATTTGACTACTCAAATACTGTAATGAGAACTATAAAATTGGAGCATGTACATTTTCAGAGTGTTTTAC
ATTCAACAGGATAAAATCTATTTGCTTTTTGACCAAAATGGACATAGAAAACCTGACAATATCAAATGCACAAATG
CCACACATGCTTTTCCGAATTATCCTACGAAATTCGAATATTTAAATTTTGGCAATAATATCTTAACAGACGAG
TTGTTTAAAGAAGCTATCCAAGTGCCTCACTTGAAAACCTCTCATTTTGAATGGCAATAAAGTGGAGACACTTTCT
TTAGTAAGTTGCTTTGCTAACAACACACCCTTGGAACACTTGGATCTGAGTCAAAATCTATTACAACATAAAAAT
GATGAAAATTGCTCATGGCCAGAACTGTGGTCAATATGAATCTGTCATACAATAAATTGTCTGATTCTGTCTTC
AGGTGCTTGCCCAAAAGTATTCAATACTTGACCTAAATAATAACCAATCCAACTGTACCTAAAGAGACTATT
CATCTGATGGCCTTACGAGAACTAAATATTGCATTTAATTTTCTAACCTGATCTCCCTGGATGCAGTCATTTTCACT
AGACTTTTCACTTCTGAACATTGAAATGAACCTTCTCAGCCCATCTCTGGATTTTGTTCAGAGCTGCCAGGAA
GTTAAACTCTAAATGCGGGAAGAAATCCATTCCGGTGTACCTGTGAATTAATAAATTTTCACTTCACTTGAACAA
TATTCAGAGGTATGATGGTTGGATGGTCAGATTATACACCTGTGAATACCCTTTAAACCTAAGGGGAATTAGG
TTAAAGACGTTTCTCTCCACGAATTATCTTGCAACACAGCTCTGTTGATTGTACCATTTGTGGTTATTATGCTA
GTTCTGGGGTTGGCTGTGGCCTTCTGCTGTCTCCACTTTGATCTGCCCTGGTATCTCAGGATGCTAGGTCAATGC
ACACAAACATGGCACAGGGTTAGGAAAACAACCAAGAACAACCTCAAGAGAAATGTCCGATTCCACGCATTTATT
TCATACAGTGAACATGATTCTCTGTGGGTGAAGAATGAATTGATCCCCAATCTAGAGAAGGAAGATGGTTCTATC
TTGATTTGCCTTTATGAAAGCTACTTTGACCCTGGCAAAAGCATTAGTGAAAATATTGTAAGCTTCATTGAGAAA
AGCTATAAGTCCATCTTTGTTTTGTCTCCCAACTTTGTCCAGAATGAGTGGTGCCATTATGAATTTTACTTTGCC
CACCACAATCTCTTCCATGAAAATTTCTGATCATATAATTCTTATCTTACTGGAACCCATTCCATTCTATTGCATT
CCCACCAGGTATCATAAACTGAAAAGCTCTCCTGGAAAAAAGCATACTTGGAATGGCCCAAGGATAGGCGTAAA
TGTTGGGCTTTTTCTGGGCAAACTTCGAGCTGCTATTAATGTTAATGTATTAGCCACCAGAGAAATGTATGAACTG
CAGACATTCACAGAGTTAAATGAAGAGTCTCGAGGTTCTACAATCTCTCTGATGAGAACAGATTGTCTATTAAT
CCCACAGTCCTTGGGAAGTTGGGGACCACATACACTGTTGGGATGTACATTGATACAACCTTTATGATGGCAATT
TG

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FIGURE 1950

MRLIRNIYIFCSIVMTAEGDAPELPEERELMTNCSNMSLRKVPADLTPATTTLDLSYNLLFQLQSSDFHSVSKLR
VLILCHNRIQQDLKTFEFNKELRYLDLSNNRLKSVTWYLLAGLRYLDLSFNDFDTMPICEEAGNMSHLEILGLS
GAKIQKSDFQKIAHLHLNTVFLGFRTLPHYEEGSLPILNTTKLHIVLPMDTNFWVLLRDGIKTSKILEMTNIDGK
SQFVSYEMQRNLSLENAKTSVLLLKNVDLLWDDLFILILQFVWHTSVEHFQIRNVTFGGKAYLDHNSFDYSNTVMR
TIKLEHVHFRVFYIQQDKIYLLLTKMDIENLTISNAQMPHMLFPNYPTKFQYLNFANNILTDELFKRTIQLPHLK
TLILNGNKLETLSLVSCFANNTPLEHLDLSQNLQHKNDENCSPETVVMNLSYNKLSDSVFRCLPKSIQILD
NNNQIQTVPKETIHLMALRELNIAFNFLTDLPGCSHF SRLSVLNIEMNFILSPSLDFVQSCQEVKTLNAGRNPF
CTCELKNFIQLETYSEVMVGWSDSYTCEYPLNLRGIRLKDVLHELSCNTALLIVTIVIMLVGLAVAFCLH
FDLPWYLRMLGQCTQTWHRVRKTTQEQLKRNVRFHAFISYSEHDSLWVKNELIPNLEKEDGSILICLYESYFDPG
KSISENIVSFIEKSYKSIFVLSPNFVQNEWCHYEFYFAHHNLFHENS DHIIILILLEPIPFYCIPTRYHKLKALLE
KKAYLEWPKDRRKCGLFWANLRAAINVNVLATREMYELQTFTELNEESRGSTISLMRTDCL

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FIGURE 1951

AACTTCTAGAAGTTGAAGTTACAAAGGTATATAGAAGGTACACAGAATCAGAAAAGATTATAAAAAGAAAGCAAGA
TTTTTGTTAGTGACGTCCTGTTTCCCTCTGAAGAGTAATAGTTGGAATCAAAGAGTCAACGCAATGAAGTGTAT
TTACTGCTGCGTTTTATGTTGGGAATTCCTCTCCTATGGCCTTGCTTTGGAGCAACAGAAAACCTCTCAAAACAAAG
AAAGTCAAGCAGCCAGTGCATCTCATTGAGAGTGAAGCGTGGCTGGGTGTGGAACCAATTTTTTGTACCAGAG
AATGAATACGACTAGTCATCACATCGGCCAGCTAAGATCTGATTTAGACAATGGAAACAATCTTTCCAGTAC
TTTTGGGAGCTGGAGCTGGAAGTACTTTTTATCATTGATGAAAGAACAGGTGACATATATGCCATACAGAAG
CATAGAGAGGAGCGATCCCTCTACATCTTAAGAGCCAGGTAATAGACATCGCTACTGGAAGGGCTGTGGAA
CCTGAGTCTGAGTTTGTATCAAAGTTTCGGATATCAATGACAATGAACCAAAATTCCTAGATGAACCTTATGAG
ATTGTTACCAGAGATGTCTCCAGAAGGAACATTAGTTATCCAGGTGACAGCAAGTGATGCTGACGATCCCTCA
GGTAATAATGCTCGTCTCCTCTACAGCTTACTTCAAGGCCAGCCATATTTTTCTGTTGAACCAACAACAGGA
TAAGAATATCTTCTAAATGGATAGAGAAGTGAAGATGAGTATTGGGTAATCATTCAAGCCAAGGACATG
GTCAGCCAGGAGCGTTGTCTGGAACAACAAGTGTATTAATTAAGTCTTTCAGATGTTAATGACAATAAGCCT
ATAITTAAGAAAGTTTATACCGCTTGACTGTCTCTGAATCTGCACCCACTGGGACTTCTATAGGAACAATCATG
CATATGATAATGACATAGGAGAGAATGCAGAAATGGATTACAGCATTGAAGAGGATGATTGCGAAACATTGAC
ATTATTACTAATCATGAAACTCAAGAAGGAATAGTTATATTAAGAAAGAAAGTGGATTTTGTAGCACCAGAACAC
TACGGTATTAGAGCAAAAGTTAAACCATCATGTTTCTGAGCAGCTCATGAAGTACCACACTGAGGCTTCCACC
ACTTTCATTAAAGATCCAGGTGGAAGATGTTGATGAGCCTCCTCTTTTCCCTCCATATTATGTATTTGAAGTT
TTTGAAGAAACCCACAGGGATCATTGTTAGGCGTGGTGTCTGCCACAGACCCAGACAATAGGAAATCTCCTATC
AGGTATTCTATTACTAGGAGCAAAGTGTTCATATCAATGATAATGGTACAATCACTACAAGTAACTCACTGGAT
CGTGAAATCAGTGCTTGGTACAACCTAAGTATTACAGCCACAGAAAAATACAATATAGAACAGATCTCTTCGATC
CCACTGTATGTGCAAGTTCTTAACATCAATGATCATGCTCCTGAGTTCTCTCAATACTATGAGACTTATGTTTGT
GAAATGCAGGCTCTGGTCAGGTAATTCAGACTATCAGTGCAGTGGATAGAGATGAATCCATAGAAGAGCACCAT
TTTTACTTTAATCTATCTGTAGAAGACACTAACAATTCAGTTTTACAATCATAGATAATCAAGATAACACAGCT
GTCATTTTACTAATAGAACTGGTTTTAACCTTCAAGAAGAACCCTGTCTTCTACATCTCCATCTTAATTGCCGAC
AATGGAATCCCGTCACTTACAAGTACAAACACCCTTACCATCCATGTCTGTGACTGTGGTGACAGTGGGAGCACA
CAGACCTGCCAGTACCAGGAGCTTGTGCTTTCCATGGGATTCAAGACAGAAGTCATCATTGCTATTCTCATTTCG
ATTATGATCATATTTGGGTTTATTTTTTGTACTTTGGGTTTAAACAACGGAGAAAACAGATTCTATTTTCCCTGAG
AAAAGTGAAGATTTTCAAGAGAGATATATTCCAATATGATGATGAAGGGGTGGAGAAGAAGATACAGAGGCCCTT
GATATAGCAGAGCTGAGGAGTAGTACCATAATGCGGGAACGCAAGACTCGGAAAACCAAGCGCTGAGATCAGG
AGCCTATACAGGCAGTCTTTGCAAGTTGGCCCCGACAGTGCATATTTCAGGAAATTCATTCTGGAAGAGCTCGAA
GAAGCTAATACTGATCCGTGTGCCCTCCTTTTGATTCCCTCCAGACCTACGCTTTTGGAGGAACAGGGTCAATTA
GCTGGATCCCTGAGCTCCTTAGAATCAGCAGTCTCTGATCAGGATGAAAGCTATGATTACCTTAATGAGTTGGGA
CCTCGCTTTAAAGATTAGCATGCATGTTTGGTCTGTCAGTGCAGTCAAATAATTAGGCTTTTTACCATCAAAA
TTTTTAAAGTGCTAATGTGTATTTCGAACCCAATGGTAGTCTTAAAGAGTTTTGTGCCCTGGCTCTATGGCGGGG
AAAGCCCTAGTCTATGGAGTTTTCTGATTTCCCTGGAGTAAATACTCCATGGTTATTTAAGCTACCTACATGCT
GTCATTGAACAGAGATGTGGGGAGAAATGTAACAATCAGCTCACAGGCATCAATACAACCAGATTGAAAGTAAA
ATAATTTAGGAAGATATTAAGTAGATGAGAGGACACAAGATGTAGTCGATCCTTATGCGATTATATCATTATT
TACTTAGGAAAGAGTAAAAATACCAACGAGAAAATTTAAAGGAGCAAAAATTTGCAAGTCAAATAGAAATGTAC
AAATCGAGATAACATTTACATTTCTATCATATTGACATGAAAATTGAAAATGTATAGTCAGAGAAATTTTCATGA
ATTATTCCATGAAGTATTGTTTCTTTATTTAAAAAAGAAATGCTAGGTAATCTTCGTAGA
AACTAGAAAGTATGATAAACAAGTTGGAGGAATCCATGGAAAATAGACGAGAAAATGTAAATAAGGCTTTCT
GGGGATCACAGAACTTTGTATGAATAAAGCCTTATAAACCAGCTCTGGCATATGACTAAAATATTCCTCTAC
TATTTTCAATGTCACTAATGCAAACGCTCAACC

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FIGURE 1952

MNCYLLLRFMLGIPLLWPCLGATENSQTKVKQPVRSHLRVKGWVWNQFFVPEEMNTTSHHIGQLRSDLDNGNN
SFQYKLLGAGAGSTFIIDERTGDIYAIQKLDREERSLYILRAQVIDIATGRAVEPESEFVIKVS DINDNEPKFLD
EPYEAIVPEMSPEGTLVIQVTASDADDPSSGNNARLLYSLLQGQPYFSVEPTTG VIRISSKMDRELQDEYWV IIQ
AKDMIGQPGALSGTTSVLIKLSDVNDNKPIFKESLYRLTVSESAPTGT SIGTIMAYDNDIGENAEMDYSIEEDDS
QTFDIITNHETQEGIVILKKKVDFEHQNHYGIRAKVKNHHVPEQLMKYHTEASTTFIKIQVEDVDEPPLFLLPY
VFEVFEETPQGSFVGVSATDPDNRKSP IRY SITRSKVFNINDNGTITTSNSLDREISAWYNLSITATEKYNIEQ
ISSIPLYVQVLNINDHAPEFSQYYETYVCENAGSGQVIQTISAVDRDESIEEHHFYFNLSVEDTNSSFTIIDNQ
DNTAVILTNRGTGNLQEEPVFYISILIADNGIPSLTSTNTLTIHVCDGDSGSTQTCQYQELVLSMGFKTEV IIA
ILICIMIIFGFIFLTLGLKQRRKQILFPEKSEDFRENIFQYDEGGGEEDTEAFDIAELRSSTIMRERKTRKTT
AEIRSLYRQSLQVGPDSAIFRKFILEKLEEANTDPCAPPFDSLQTYAFEGTGLAGSLSSLESASVSDQDESYDYL
NELGPRFKRLACMFGSAVQSNN

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FIGURE 1953

GAAAGACGTGGTCCTGACAGACAGACAATCCTATTCCCTACCAAAATGAAGATGCTGCTGCTGCTGTGTTTGGGA
CTGACCCTAGTCTGTGTCCATGCAGAAGAAGCTAGTTCTACGGGAAGGAACTTTAATGTAGAAAAGATTAATGGG
GAATGGCATACTATTATCCTGGCCTCTGACAAAAGAGAAAAGATAGAAGAACATGGCAACTTTAGACTTTTTCTG
GAGCAAATCCATGTCTTGGAGAATTCCTTAGTTCTTAAAGTCCATACTGTAAGAGATGAAGAGTGCTCCGAATTA
TCTATGGTTGCTGACAAAACAGAAAAGGCTGGTGAATATTCTGTGACGTATGATGGATTCAATACATTTACTATA
CCTAAGACAGACTATGATAACTTTCTTATGGCTCACCTCATTAACGAAAAGGATGGGGAAACCTTCCAGCTGATG
GGGCTCTATGGCCGAGAACCAGATTTGAGTTCAGACATCAAGGAAAGGTTTGCACAACATATGTGAGGAGCATGGA
ATCCTTAGAGAAAATATCATTGACCTATCCAATGCCAATCGCTGCCTCCAGGCCCGAGAATGAAGAATGGCCTGA
GCCTCCAGTGTTGAGTGGACACTTCTCACCAGGACTCCACCATCATCCCTTCCTATCCATACAGCATCCCCAGTA
TAAATTCTGTGATCTGCATTCCATCCTGTCTCACTGAGAAGTCCAATTCCAGTCTATCAACATGTTACCTAGGAT
ACCTCATCAAGAATCAAAGACTTCTTTAAATTTCTTTTGATACACCCTTGACAATTTTTCATGAAATTATTCCT
CTTCCTGTTCAATAAATGATTACCCTTGCACTTAA

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FIGURE 1954

MKMLLLLCGLTLVCVHAEASSTGRNFNVEKINGEWHTIILASDKREKIEEHGNFRLFLEQIHVLENSLVVKVH
TVRDEECSELSMVADKTEKAGEYSVTYDGFNTFTIPKTDYDNFLMAHLINEKDGETFQLMGLYGREPDLSSDIKE
RFAQLCEEHGILRENIIDLSNANRCLQARE

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FIGURE 1955

CTCAGACTACAGGTGTGAGCCACCATGCCCCGCCCTTCTCCTTTAAGTATTGTTGGCCTCACTTTCCCAACTAAAA
TGGGAGCTCACTAAGAACAAAGGCTGTTCCCTTCATCTTATACTTAGTACCTTGAAAGGGCCTACCACACAGTAGG
TGGTCACGTGTTAGTCTGTTAGGTCTTTTGGATTCTTAGGTAGACAATCACATCGATTGCAAATAATAGTCTTT
CTCTTTTCAGTCTTTGTATTTCTTTTTCTTGTGTTTATTGCATTGACTGAGCTCATCAGTGAAATGTTGAATAGT
AGCAATGATGGAGGGCACCCCAATCTTATTATGCTCAATACTCATTAAATTTATGCAATAGGAATGTAAAGTACCT
ACTGCAGGTCAAATCCTGTGCCTGGGGATAACAGTGTAAACACATTTGAGATCTTTTCTGTCCACTGAAATGCCT
GAGCAGTAGCAGTATTTTCACTAAACACGACAATGCTGAGAATATCACCAAATTTCTCCAGACTTGCTGAAAGTGTT
CTTTGGGATCCTGGTTCCCAAAAAGTATGGACATAGGTCCCTGCTGGTGGCCCCAGGTTCCAGGCCATCAGTAAG
GTTGGGGGCTGCAGACTGGACCACTGCACCGTGGAGCAGAGGTGAAGAAACCAAGACGCAGAGAGGCCAAGCCCC
TTGCCTTGGGTACACAGCCAAAGGAGGCAGAGCCAGAATCACAACCAGATCCAGAGGCAACAGGGACATGGCC
ACCTGGGACGAAAAGGCAGTCACCCGAGGGCCAAGGTGGCTCCCGCTGAGAGGATGAGCAAGTTCTTAAGGCAC
TTCACGGTCGTGGGAGACGACTACCATGCCCTGGAACATCAACTACAAGAAATGGGAGAATGAAGAGGAGGAGGAG
GAGGAGGAGCAGCCACCACCCACACCACTCTCAGGCGAGGTCTATCATCTGCTTGGTGGTTCTGGATGCCCTC
CTGGTGCTTGCTGAGCTCATCTGGACCTGAAGATCATCCAGCCCGACAAGAATAACTATGCTGCCATGGTATTC
CACTACATGAGCATCACCATCTTGGTCTTTTTTATGATGGAGATCATCTTTAAATTATTTGTCTTCCGCCTGGAG
TTCTTTTACCACAAGTTTGAGATCCTGGATGCCGTGCTGGTGGTGGTCTCATTCATCCTCGACATTGTCCTCCTG
TTCCAGGAGCACCAGTTTGAGGCTCTGGGCCTGCTGATTCTGCTCCGGCTGTGGCGGGTGGCCCGGATCATCAAT
GGGATTATCATCTCAGTTAAGACACGTTTCAAGACGGCAACTCTTAAGGTAAAACAGATGAATGTACAATTGGCC
GCCAAGATTCAACACCTTGAGTTTCACTGCTCTGAGAAGGAACAAGAAATTGAAAGACTTAACAACTATTGCGA
CAGCATGGACTTCTTGGTGAAGTGAAGTACAGCCCGGACCAGCTCCCTCAAAAAGAAGACACTGTCTCATGGGCC
TGTGCTGTCACGAGAGGAACAGCTGCCCCCTCTGGGCCGCTTGGTGAGAGGTTTGGTTTGATACCTCTGCCTCCC
TCCTGCCAGCATGGATTCTGGGTGGACACAGCCTTGTGGAAGGTCCAGTACCACCAAGAGCTGCCCATCCACTCC
CACCCACACTGTATCAATGTATCACATTTTCTCATGTTGAACACTTTAGCCTTAATTGAAAATGAGCAACAAA
GCTGGACAATTGCTAGTTGTATATAAAATTTAATCTCACCGAATGTACAGTTTTCAATTTTACGTGTATATTAA
GGAACTGATGCATCTGAGCATTCTGAAAGAAAGAAAAAGAGCTACTTTAGCTGCCACCCCATTTAGAAAAGTC
TCTTATTTTCAAGCTGTTCTAAATAGCTTCGTCTCAGTTTCCCCAAAAGGGGTACCCAGGCCCTCCTCTGTGTG
CCCCAGCTGCATCAGCCAGCTTCTAGGTGGCTCCATTGTTTTCTGCCACCTGACAACATTTTTCTCAATTACTG
TACAACTACTGTATAAAATAAAACAACACTACTGTATAAAATAAACTCTCTTTTTCCCTGGAAAAAAAAAAAAAA
AAA

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FIGURE 1956

MATWDEKAVTRRAKVAPAERMSKFLRHFTVVGDDYHAWNINYKKWENEEEEEEQPPPTPVSGEV I I ICLVVLD
ALLVLAELILD LK I IQPDKNNYAAMVFHYMSITILVFFMMEIIFKLFVFRLEFFHHKFEILDAVVVVVSFILDIV
LLFQEHQFEALGLLILLRLWRVARIING I I ISVKTRSERQLRLKQMNVLAAKIQHLEFSCSEKEQEIERLNKL
LRQHGLLGEVN

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FIGURE 1957

CTTCTCTGCCAGAAGATACCATTTCAACTTTAACACAGCATGATCGAAACATACAACCAAACCTTCTCCCCGATCT
GCGGCCACTGGACTGCCCATCAGCATGAAAATTTTTATGTATTTACTTACTGTTTTTCTTATCACCAGATGATT
GGGTCAGCACTTTTTGCTGTGTATCTTCATAGAAGGTTGGACAAGATAGAAGATGAAAGGAATCTTCATGAAGAT
TTTGTATTCATGAAAACGATACAGAGATGCAACACAGGAGAAAGATCCTTATCCTTACTGAACTGTGAGGAGATT
AAAGCCAGTTTGAAGGCTTTGTGAAGGATATAATGTTAAACAAAGAGGAGACGAAGAAAGAAAACAGCTTTGAA
AAAAAGGTGATCAGAATCCTCAAATTGCGGCACATGTCATAAGTGAGGCCAGCAGTAAAACAACATCTGTG
AGTGGGCTGAAAAAGGATACTACACCATGAGCAACAACCTTGGTAACCCTGGAAAAATGGGAAACAGCTGACC
GTTAAAAGACAAGGACTCTATTATATCTATGCCCAAGTCACCTTCTGTTCCAATCGGGAAGCTTCGAGTCAAGCT
TTTATAGCCAGCCTCTGCCTAAAGTCCCCCGGTAGATTTCGAGAGAATCTTACTCAGAGCTGCAAAATACCCAC
TTCGCCAAACCTTGCGGGCAACAATCCATTCACTTGGGAGGAGTATTTGAATTGCAACCAGGTGCTTCGGTG
TCAATGTGACTGATCCAAGCCAAGTGAGCCATGGCACTGGCTTCACGTCCTTTGGCTTACTCAAACCTCTGA

AAGTGTACCTTGCAGGCTGTGGTGGAGCTGACGCTGGGAGTCTTCATAATACAGCACAGCGGTTAAGCCCACC
CCCTGTAACTGCCTATTTATAACCCTAGGATCCTCCTTATGGAGAACTATTTATTATACACTCCAAGGCATGTA
GAACGTGAATAAGTGAATTACAGGTACATGAAACCAAACGGGCCCTGCTCCATAAGAGCTTATATATCTGAAG
CAGCAACCCCACTGATGCAGACATCCAGAGAGTCCTATGAAAAGACAAGGCCATTATGCACAGGTTGAATTCTGA
GTAAACAGCAGATAACTTGCCAAGTTTCAGTTTTGTTTTCTTTGCGTGCAGTGTCTTTCCATGGATAATGCATTGTA
TTTATCAGTGAAGATGCAGAAGGGAAATGGGGAGCCTCAGCTCACATTCAGTTATGGTTGACTCTGGGTTCCCTAT
GGCCTTGTGGAGGGGGCCAGGCTCTAGAACGTCTAACACAGTGGAGAACCGAAACCCCCCCCCCCCCCCCCCGCC
ACCCTCTCGGACAGTTATTCATTCTCTTTCAATCTCTCTCTCTCCATCTCTCTCTTTTCACTCTCTCTCTCAAC
CTCTTTCTTCCAATCTCTCTTTCTCAATCTCTCTGTTTCCCTTTGTCAGTCTCTTCCCTCCCCCAGTCTCTCTTC
TCAATCCCCCTTTCTAACACACACACACACACACACACACACACACACACACACACACACACACACACACACA
CACACAGAGTCAGGCCGTTGCTAGTCAGTTCTCTTCTTTCCACCCTGTCCCTATCTCTACCACTATAGATGAGGG
TGAGGAGTAGGGAGTGCAGCCCTGAGCCTGCCCACCTCCTCATTACGAAATGACTGTATTTAAAGGAAATCTATTG
TATCTACCTGCAGTCTCCATTGTTTCCAGAGTGAACCTGTAATTATCTTGTTATTTATTTTTTGAATAATAAAGA
CCTCTTAACATTAAAA

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FIGURE 1958

MIETYNQTS PRSAATGLPISMKIFMYLLTVFLITQMIGSALFAVYLHRRLDKIEDERNLHEDFVFMKTIQRCNTG
ERSLSLLNCEEIKSQFEGFVKDIMLNKEETKKENSFEMQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYTMSN
NLVTLENGKQLTVKRQGLYYIIYAQVTFCSNREASSQAPF IASLCLKSPGRFERILLRAANTHSSAKPCGQCSIHL
GGVFELQPGASVFNVTDP SQVSHGTGFTSFGLLKL

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FIGURE 1959

GGGCTGCAGGTTTCGACCCGCGCTGGCGAGTCATGAGCGCCAAGTTTCCCACTGGCGCGCAAACCTTGAGTTACTT
TTGAGCGTGGATACTGGCGAAGAGGCTGCGGGCGGTATTAGCGTTTGCAGCGACTTGGCTCGGGCAGCTGACCCC
AAAGTGTCTGTCTTCCTTCCTCTGCTTGTCTCTAGGCTCTGAAACTGCGGCGGCCACCGGACGCTTCTGGAGCAG
GTAGCAGCATGCAGCCGCCTCCAAGTCTGTGCGGACGCGCCCTGGTTGCGCTGGTTCTTGCCTGCGGCCTGTGCG
GGATCTGGGGAGAGGAGAGAGGCTTCCCGCCCGACAGGGCCACTCCGCTTTTGCAAACCGCAGAGATAATGACGC
CACCCACTAAGACCTTATGGCCCAAGGGTTCCAACGCCAGTCTGGCGCGGTCGTTGGCACCTGCGGAGGTGCCTA
AAGGAGACAGGACGGCAGGATCTCCGCCACGCACCATCTCCCTCCCGTGCCAAGGACCCATCGAGATCAAGG
AGACTTTCAAATACATCAACACGGTTGTGTCTGCCTTGTGTTTCGTGCTGGGGATCATCGGGAACCTCCACACTTC
TGAGAATTATCTACAAGAACAAGTGCATGCGAAACGGTCCCAATATCTTGATCGCCAGCTTGGCTCTGGGAGACC
TGCTGCACATCGTCATTGACATCCCTATCAATGTCTACAAGCTGCTGGCAGAGGACTGGCCATTTGGAGCTGAGA
TGTGTAAGCTGGTGCCTTTTCATACAGAAAGCCTCCGTGGGAATCACTGTGCTGAGTCTATGTGCTCTGAGTATTG
ACAGATATCGAGCTGTTGCTTCTTGGAGTAGAATTAAAGGAATTGGGGTTCCAAAATGGACAGCAGTAGAAATTG
TTTTGATTTGGGTGGTCTCTGTGGTTCTGGCTGTCCCTGAAGCCATAGGTTTTGATATAATTACGATGGACTACA
AAGGAAGTTATCTGCGAATCTGCTTGCTTCATCCCGTTCAGAAGACAGCTTTCATGCAGTTTTACAAGACAGCAA
AAGATTGGTGGCTGTTTCAGTTTCTATTTCTGCTTGCCATTGGCCATCACTGCATTTTTTTATACACTAATGACCT
GTGAAATGTTGAGAAAGAAAAGTGGCATGCAGATTGCTTTAAATGATCACCTAAAGCAGAGACGGGAAGTGGCCA
AAACCGTCTTTTGCCCTGGTCTTGTCTTTGCCCTCTGCTGGCTTCCCCTTACCTCAGCAGGATTCTGAAGCTCA
CTCTTTATAATCAGAATGATCCCAATAGATGTGAACTTTGGAGCTTTCTGTTGGTATTGGACTATATTGGTATCA
ACATGGCTTCACTGAATTCCTGCATTAACCCAATTGCTCTGTATTTGGTGAGCAAAAGATTCAAAAACCTGCTTTA
AGGCTGGGCCACATGTTGGAATAAGCTAGTAATGTTGTTTTCTGTCAATATTGAATGTGATGGTACAGTAAACC
AAAACCCAACAATGTGGCCAGAAAGAAAGAGCAATAATAATTAATTACACACCATATGGATTCTATTTATAAAT
CAC

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FIGURE 1960

MQPPPSLCGRALVALVLACGLSRIWGEERGFPDRATPLLQTAEIMTPPTKTLWPKGSNASLARS LAPAEVPGD
RTAGSPPR TISPPPCQGP I E I K E T F K Y I N T V V S C L V F V L G I I G N S T L L R I I Y K N K C M R N G P N I L I A S L A L G D L L H
I V I D I P I N V Y K L L A E D W P F G A E M C K L V P F I Q K A S V G I T V L S L C A L S I D R Y R A V A S W S R I K G I G V P K W T A V E I V L I
W V V S V L A V P E A I G F D I I T M D Y K G S Y L R I C L L H P V Q K T A F M Q F Y K T A K D W W L F S F Y F C L P L A I T A F F Y T L M T C E M
L R K K S G M Q I A L N D H L K Q R R E V A K T V F C L V L V F A L C W L P L H L S R I L K L T L Y N Q N D P N R C E L L S F L L V L D Y I G I N M A
S L N S C I N P I A L Y L V S K R F K N C F K A G P H V G N K L V M L F S V N I E C D G T V N Q N P T M W P E R K S N N N

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FIGURE 1961

TCTTGCTGCGCCTCCGCTCCTCCTCTGCTCCGCCACCGGCTTCCTCCTCCTGAGCAGTCAGCCCGCGCGCCGGC
CGGCTCCGTTATGGCGACCCGCAGCCCTGGCGTCGTGATTAGTGATGATGAACCAGGTTATGACCTTGATTAT
TTGCATACCTAATCATTATGCTGAGGATTTGGAAAGGGTGTTTATTCCTCATGGACTAATTATGGACAGGACTGA
ACGTCTTGCTCGAGATGTGATGAAGGAGATGGGAGGCCATCACATTGTAGCCCTCTGTGTGCTCAAGGGGGGCTA
TAAATTCCTTGCTGACCTGCTGGATTACATCAAAGCACTGAATAGAAATAGTGATAGATCCATTCCCTATGACTGT
AGATTTTATCAGACTGAAGAGCTATTGTAATGACCAGTCAACAGGGGACATAAAAGTAATTGGTGGAGATGATCT
CTCAACTTTAACTGGAAAGAATGTCTTGATTGTGGAAGATATAATTGACACTGGCAAAACAATGCAGACTTTGCT
TTCCTTGGTCAGGCAGTATAATCCAAAGATGGTCAAGGTCGCAAGCTTGCTGGTGAAAAGGACCCACGAAGTGT
TGGATATAAGCCAGACTTTGTTGGATTGAAATTCCAGACAAGTTTGTTGTAGGATATGCCCTTGACTATAATGA
ATACTTCAGGGATTTGAATCATGTTTGTGTCATTAGTGAACTGGAAAAGCAAAATACAAAGCCTAAGATGAGAG
TTCAAGTTGAGTTTGGAAACATCTGGAGTCCTATTGACATCGCCAGTAAATTATCAATGTTCTAGTTCTGTGGC
CATCTGCTTAGTAGAGCTTTTGCATGTATCTTCTAAGAATTTTATCTGTTTTGTACTTTAGAAATGTCAGTTGC
TGCATTCCTAACTGTTTATTTGCACTATGAGCCTATAGACTATCAGTTCCCTTTGGGCGGATTGTTGTTTAACT
TGTAATGAAAAAATTCTCTTAAACCACAGCACTATTGAGTGAAACATTGAACTCATATCTGTAAGAAATAAAGA
GAAGATATATTAGTTTTTTAATTGGTATTTTAAATTTTATATATGCAGGAAAGATAGAAGTGATTGAATATTGT
TAATTATACCACCGTGTGTTAGAAAAGTAAGAAGCAGTCAATTTTCACATCAAAGACAGCATCTAAGAAGTTTGT
TTCTGTCTGGAATTATTTTAGTAGTGTTCAGTAATGTTGACTGTATTTCCAACCTTGTTCAAATTATTACCAG
TGAATCTTTGTCAGCAGTTCCTTTTAAATGCAAATCAATAAATTCCCAAAATTT

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FIGURE 1962

MATRSPGVVISDDDEPGYDLDLFCIPNHYAEDLERVFIPHGLIMDRTERLARDVMKEMGGHHIVALCVLKGGYKFF
ADLLDYIKALNRNSDRSIPMTVDFIRLKSYPNDQSTGDIKVIGGDDLSTLTGKNVLIVEDIIDTGKTMQTLLSLV
RQYNPKMVKVASLLVKRTPRSVGYPDFVGFEPDKFVVGYPALDYNEYFRDLNHVCVISETGKAKYKA

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FIGURE 1963A

GATCCCATCGCAGCTACCGCGATGAGAGGCGCTCGCGGCGCTGGGATTTTCTCTGCGTTCTGCTCCTACTGCTT
CGCGTCCAGACAGGCTCTTCTCAACCATCTGTGAGTCCAGGGGAACCGTCTCCACCATCCATCCATCCAGGAAAA
TCAGACTTAATAGTCCGCGTGGGCGACGAGATTAGGCTGTTATGCACTGATCCGGGCTTTGTCAAATGGACTTTT
GAGATCCTGGATGAAACGAATGAGAATAAGCAGAATGAATGGATCACGGAAGGCAGAAGCCACCAACACCGGC
AAATACACGTGCACCAACAAACACGGCTTAAGCAATTCCATTATGTGTTTGTAGAGATCCTGCCAAGCTTTTC
CTTGTTGACCGCTCCTTGTATGGGAAAGAAGACAACGACACGCTGGTCCGCTGTCCTCTCACAGACCCAGAAGTG
ACCAATTATTCCTCAAGGGGTGCCAGGGGAAGCCTCTTCCCAAGGACTTGAGGTTTATTCTGACCCCAAGGCG
GGCATCATGATCAAAAGTGTGAAACGCGCCTACCATCGGCTCTGTCTGCATTGTTCTGTGGACCAGGAGGGCAAG
TCAGTGCTGTGCGAAAAATTCTCCTGAAAGTGAGGCCAGCCTTCAAAGCTGTGCCTGTTGTGTCTGTGTCCAAA
GCAAGCTATCTTCTTAGGGAAGGGGAAGAATTCACAGTGACGTGCACAATAAAGATGTGTCTAGTTCTGTGTAC
TCAACGTGGAAGAGAAAAACAGTCAGACTAACTACAGGAGAAATATAATAGCTGGCATCACGGTGACTTCAAT
TATGAACGTGAGGCAACGTTGACTATCAGTTCAGCGAGAGTTAATGATTCTGGAGTGTTTATGTGTTATGCCAAT
AATACTTTTGGATCAGCAATGTGACAAACCTTGGAAGTAGTAGATAAAGGATTCAATTAATATCTTCCCCATG
ATAAACACTACAGTATTTGTAAACGATGGAGAAAATGTAGATTTGATTGTTGAATATGAAGCATTCCCCAACCT
GAACACCAGCAGTGGATCTATATGAACAGAACCTTCACTGATAAATGGGAAGATTATCCCAAGTCTGAGAATGAA
AGTAATATCAGATACGTAAGTGAACCTTCATCTAACGAGATTAAGGACCCGAAGGAGGCACCTACACATTCTTA
GTGTCCAATTCTGACGTCAATGCTGCCATAGCATTTAATGTTTATGTGAATACAAAACAGAAATCCTGACTTAC
GACAGGCTCGTGAATGGCATGCTCCAATGTGTGGCAGCAGGATTCCCAGAGCCCAATAGATTGGTATTTTGT
CCAGGAAGTACGAGAGATGCTCTGCTTCTGTACTGCCAGTGGATGTGCAGACACTAACTCATCTGGGCCACCG
TTTGAAAGCTAGTGGTTCAGAGTTCTATAGATTCTAGTGCATTCAAGCACAATGGCACGGTTGAATGTAAGGCT
TACAACGATGTGGGCAAGACTTCTGCCTATTTTAACTTTGCATTTAAAGGTAACAACAAAGAGCAATCCATCCC
CACACCCTGTTCACTCCTTTGCTGATTGGTTTCGTAATCGTAGCTGGCATGATGTGCATTATTGTGATGATTCTG
ACCTACAAATATTTACAGAAACCCATGTATGAAGTACAGTGGAAAGGTTGTTGAGGAGATAAATGGAAACAATTAT
GTTTACATAGACCCAACACAACCTTCTTATGATCACAATGGGAGTTTCCCAGAAACAGGCTGAGTTTTGGGAAA
ACCTGGGTGCTGGAGCTTTCGGGAAGGTTGTTGAGGCAACTGCTTATGGCTTAATTAAGTCAGATGCGGCCATG
ACTGTCGCTGTAAAGATGCTCAAGCCGAGTGCCCATTTGACAGAACGGGAAGCCCTCATGTCTGAACTCAAAGTC
CTGAGTTACCTTGGTAATCACATGAATATTGTGAATCTACTTGGAGCCTGCACCATTGGAGGGCCACCCTGGTC
ATTACAGAATATTGTTGCTATGGTGATCTTTTGAATTTTGTGAGAAGAAAACGTGATTCAATTTATTTGTTCAAAG
CAGGAAGATCATGCAGAAGCTGCACCTTATAAGAATCTTCTGCATTCAAAGGAGTCTTCTGTCAGCGATAGTACT
AATGAGTACATGGACATGAAACCTGGAGTTTCTTATGTTGTCCCAACCAAGGCCGACAAAAGGAGATCTGTGAGA
ATAGGCTCATACATAGAAAGAGATGTGACTCCCGCCATCATGGAGGATGACGAGTTGGCCCTAGACTTAGAAGAC
TTGCTGAGCTTTTCTTACCAGGTGGCAAAGGGCATGGCTTTCCTCGCTCCAAGAATTGTATTACAGAGACTTG
GCAGCCAGAAATATCCTCCTTACTCATGGTCGGATCACAAAGATTTGTGATTTTGGTCTAGCCAGAGACATCAAG
AATGATTCTAATTATGTGGTTAAAGGAAACGCTCGACTACCTGTGAAGTGGATGGCACCTGAAAGCATTTTCAAC
TGTGTATACAGTTTGAAGTGACGTCTGGTCCATATGGGATTTTCTTTGGGAGCTGTTCTCTTTAGGAAGCAGC
CCCTATCCTGGAATGCCGGTGCATTCTAAGTTCTACAAGATGATCAAGGAAGGCTTCCGGATGCTCAGCCCTGAA
CACGCACCTGCTGAAATGTATGACATAATGAAGACTTGCTGGGATGCAGATCCCCTAAAAAGACCAACATTCAAG
CAAATTGTTTACGCTAATTGAGAAGCAGATTTAGAGAGCACCATCATATTTACTCCAACCTAGCAAACTGCAGC
CCCAACCGACAGAAGCCCGTGGTAGACCATTCTGTGCGGATCAATTCTGTGCGGACGACCGCTTCTCCTCCCAG
CCTCTGCTTGTGCACGACGATGTCTGAGCAGAATCAGTGTGTTGGGTCAACCCCTCCAGGAATGATCTCTCTTTTG
GCTTCCATGATGGTTATTTTCTTTTCTTTCAACTTGCATCCAACCTCCAGGATAGTGGGCACCCCACTGCAATCCT
GTCTTTCTGAGCACACTTAGTGGCCGATGATTTTGTCTATCAGCCACCATCCTATTGCAAAGGTTCCAACCTGTA
TATATTCCCAATAGCAACGTAGCTTCTACCATGAACAGAAAACATTCTGATTGGAAAAAGAGAGGGAGGTATGG
ACTGGGGGCCAGAGTCTTTTCCAAGGCTTCTCCAATTCTGCCAAAAATATGGTTGATAGTTTACCTGAATAAAT
GGTAGTAATCACAGTTGGCCTTCAGAACCATCCATAGTAGTATGATGATACAAGATTAGAAGCTGAAAACCTAAG
TCCTTTATGTGGAACAGAACATCATTAGAACAAAGGACAGAGTATGAACACCTGGGCTTAAGAAATCTAGTAT
TTCATGCTGGGAATGAGACATAGGCCATGAAAAAATGATCCCCAAGTGTGAACAAAAGATGCTCTTCTGTGGAC
CACTGCATGAGCTTTTATACTACCGACCTGGTTTTTAAATAGAGTTTGCTATTAGAGCATTGAATTGGAGAGAAG

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FIGURE 1963B

GCCTCCCTAGCCAGCACTTGTATATACGCATCTATAAATTGTCCGTGTTTCATACATTTGAGGGGAAAACACCATA
AGGTTTCGTTTCTGTATACAACCCTGGCATTATGTCCACTGTGTATAGAAGTAGATTAAGAGCCATATAAGTTTG
AAGGAAACAGTTAATACCATTTTTTAAAGGAAACAATATAACCACAAAGCACAGTTTGAACAAAATCTCCTCTTTT
AGCTGATGAACCTTATTCTGTAGATTCTGTGGAACAAGCCTATCAGCTTCAGAATGGCATTGTACTCAATGGATTT
GATGCTGTTTGACAAAGTTACTGATTCACCTGTCATGGCTCCCACAGGAGTGGGAAAACACTGCCATCTTAGTTTGG
ATTCTTATGTAGCAGGAAATAAAGTATAGGTTTAGCCTCCTTCGCAGGCATGTCCTGGACACCGGGCCAGTATCT
ATATATGTGTATGTACGTTTGTATGTGTGTAGACAAATATTGGAGGGGTATTTTTGCCCTGAGTCCAAGAGGGT
CCTTTAGTACCTGAAAAGTAACTTGGCTTTCATTATTAGTACTGCTCTTGTTTCTTTTCACATAGCTGTCTAGAG
TAGCTTACCAGAAGCTTCCATAGTGGTGCAGAGGAAGTGGAAGGCATCAGTCCCTATGTATTTGCAGTTCACCTG
CACTTAAGGCACTCTGTTATTTAGACTCATCTTACTGTACCTGTTCCCTTAGACCTTCCATAATGCTACTGTCTCA
CTGAAACATTTAAATTTTACCCTTTAGACTGTAGCCTGGATATTATTCTTGTAGTTTACCTCTTTAAAAACAAAA
CAAAACAAAACAAAAAACTCCCCTTCCTCACTGCCCAATATAAAAGGCAAATGTGTACATGGCAGAGTTTGTGTG
TTGTCTTGAAAGATTACAGGTATGTTGCCTTTATGGTTTCCCCCTTCTACATTTCTTAGACTACATTTAGAGAACT
GTGGCCGTTATCTGGAAGTAACCATTTGCACTGGAGTTCTATGCTCTCGCACCTTCCAAAGTTAACAGATTTTG
GGGTTGTGTTGTCACCCAAGAGATTGTTGTTTGGCATACTTTGTCTGAAAAATTCCTTTGTGTTTCTATTGACTT
CAATGATAGTAAGAAAAGTGGTTGTTAGTTATAGATGTCTAGGTACTTCAGGGGCACTTCATTGAGAGTTTGTGTC
TTGCCATACTTTGTCTGAAAAATTCCTTTGTGTTTCTATTGACTTCAATGATAGTAAGAAAAGTGGTTGTTAGTT
ATAGATGTCTAGGTACTTCAGGGGCACTTCATTGAGAGTTTTGTCAATGTCTTTTGAATATTCCCAAGCCCATGA
GTCCTTGAAAAATTTTTTTATATATACAGTAACTTTATGTGTAAATACATAAGCGGCGTAAGTTTAAAGGATGTT
GGTGTTCACGTGTTTTATTCTGTATGTTGTCCAATTGTTGACAGTTCTGAAGAATTC

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FIGURE 1964

MRGARGAWDFLCVLLLLLLRVQTGSSQPSVSPGEPSPPSIHPGKSDLIVRVGDEIRLLCTDPGFVKWTFEILDETN
ENKQNEWITEKAEATNTGKYTCTNKHGLSNSIYVFVRDPAKLFLVDRSLYGKEDNDTLVRCPLTDPEVTNYSLKG
CQKGKPLPKDLRFIPDPKAGIMIKSVKRAYHRLCLHCSVDQEGKSVLSEKFILKVRPAFKAVPVVSVSKASYLLRE
GEEFTVTCTIKDVSSSVYSTWKRENSQTKLQEKYNSWHHGDFNYERQATLTISSARVNDSGVFMCIYANNTFGSAN
VTTTLEVVDKGFINIFPMINTTVFVNDGENVDLIVEYEAFPKPEHQQWIYMNRTFTDKWEDYPKSENESENIRYVS
ELHLTRLKGTEGGTYTFLVSNSDVNAAIAFNIVYVNTKPEILTYDRLVNGMLQCVAAGFPEPTIDWYFCPGTEQRC
SASVLPVDVQTLNSSGPPFGKLVVQSSIDSSAFKHNGTVECKAYNDVGKTSAYFNFAFKGNNKEQIHPHTLFTPL
LIGFVIVAGMMCIIVMILTYKYLQKPMYEVQWKVVEEINGNNYVYIDPTQLPYDHKWEFPRNRLSFGKTLGAGAF
GKVVEATAYGLIKSDAAMTVAVKMLKPSAHLTEREALMSELKVL SYLGNHMNI VNL LGACTIGGPTLVITEYCCY
GDLLNFLRRKRDSFICSKQEDHAEAAALYKNLLHSESSCSDSTNEYMDMKPGVSYVPTKADKRRSVRIGSYIER
DVTPAIMEDELALDLEDLLSFYQVAKGMAFLASKNCIHRDLAARNILLTHGRITKICDFGLARDIKNDSNYVV
KGNARLPVKWMAPEIFNCVYTFESDVWSYGIFLWELFSLGSSPYPGMPVDSKFYKMIKEGFRMLSPEHAPAEMY
DIMKTCWDADPLKRPTFKQIVQLIEKQISESTNHIYSNLANCSPNRQKPVDH SVRINSVGSTASSSQPLL VHDD
V

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FIGURE 1965

AACAACATCCTGGGATTGGGACCCACTTTCTGGGCACTGCTGGCCAGTCCCAAAATGGAACATAAGGAAGTGGTT
CTTCTACTTCTTTTTATTTCTGAAATCAGGTCAAGGAGAGCCTCTGGATGACTATGTGAATACCCAGGGGGCTTCA
CTGTTCACTGTCTACTAAGAAGCAGCTGGGAGCAGGAAGTATAGAAGAATGTGCAGCAAAATGTGAGGAGGACGAA
GAATTCACCTGCAGGGCATTCCAATATCACAGTAAAGAGCAACAATGTGTGATAATGGCTGAAAACAGGAAGTCC
TCCATAATCATTAGGATGAGAGATGTAGTTTTATTTGAAAAGAAAGTGTATCTCTCAGAGTGCAAGACTGGGAAT
GGAAAGAACTACAGAGGGACGATGTCCAAAACAAAAAATGGCATCACCTGTCAAAAATGGAGTTCCACTTCTCCC
CACAGACCTAGATTCTCACCTGCTACACACCCCTCAGAGGGACTGGAGGAGAACTACTGCAGGAATCCAGACAAC
GATCCGCAGGGGGCCCTGGTGCTATACTACTGATCCAGAAAAGAGATATGACTACTGCGACATTCTTGAGTGTGAA
GAGGAATGTATGCATTGCAGTGGAGAAAACATGACGGCAAAATTTCCAAGACCATGTCTGGACTGGAATGCCAG
GCCTGGGACTCTCAGAGCCCACACGCTCATGGATACATTCTTTCCAAATTTCCAAACAAGAACCTGAAGAAGAAT
TACTGTCTGTAACCCCGATAGGGAGCTGCGGCCTTGGTGTTTTACCACCGACCCCAACAAGCGCTGGGAACCTTTCG
GACATCCCCCGCTGCACAACACCTCCACCATCTTCTGGTCCCACCTACCAGTGTCTGAAGGGGAACAGGTGAAAAC
TATCGCGGGAATGTGGCTGTTACCGTTTCCGGGCACACCTGTGAGCACTGGAGTGCACAGACCCCTCACACACAT
AACAGGACACCAGAAAACCTCCCTGCAAAAATTTGGATGAAAACCTACTGCCGCAATCTTGACGGAAAAGGGCC
CCATGGTGCCATACAACCAACAGCAAGTGGGTGGGAGTACTGTAAGATACCGTCTCTGACTCCTCCCCAGTA
TCCACGGAACAATTGGCTCCCACAGCACCACTGAGCTAACCCCTGTGGTCCAGGACTGCTACCATGGTGTATGGA
CAGAGCTACCGAGGCACATCTCCACCACCACAGGAAAGAAGTGTGAGTCTTGGTCATCTATGACACCACAC
CGGCACCAGAAGACCCCAAGAACTACCCAAATGCTGGCCTGACAATGAACTACTGCAGGAATCCAGATGCCGAT
AAAGGCCCTTGGTGTTTTACCACAGACCCAGCGTCAGGTGGGAGTACTGCAACCTGAAAAAATGCTCAGGAACA
GAAGCGAGTGTTGTAGCACCTCCGCCTGTTGTCTGCTTCCAGATGTAGAGACTCCTTCCGAAGAAGACTGTATG
TTTGGGAATGGGAAAGGATACCGAGGCAAGAGGGCGACCACTGTTACTGGGACGCCATGCCAGGACTGGGCTGCC
CAGGAGCCCCATAGACACAGCATTCTTCACTCCAGAGACAAATCCACGGGCGGGTCTGGAAAAAATTACTGCCGT
AACCCTGATGGTGTATGTAGGTGGTCCCTGGTGCTACACGACAAATCCAAGAAAACCTTTACGACTACTGTGATGTC
CCTCAGTGTGCGGCCCTTTCATTTGATTGTGGGAAGCCTCAAGTGGAGCCGAAGAAATGTCCTGGAAGGGTTGTG
GGGGGGTGTGTGGCCACCCACATTCTGGCCCTGGCAAGTCACTCTTAGAACAAGGTTTGGAAATGCACTTCTGT
GGAGGCACCTTGATATCCCCAGAGTGGGTGTTGACTGCTGCCCCTGCTTGGAGAAGTCCCCAAGGCCTTCATCC
TACAAGGTCATCTGGGTGCACACCAAGAAGTGAATCTCGAACCGCATGTTTCAAGGAAATAGAAGTGTCTAGGCTG
TTCTTGGAGCCACACGAAAAGATATTGCCTTGCTAAAGCTAAGCAGTCTGCGGTCTACTGACAAAAGTAATC
CCAGCTTGTCTGCCATCCCCAAATTATGTGGTCTGCTGACCGGACCGAATGTTTCACTACTGGCTGGGGAGAAACC
CAAGGTACTTTTGGAGCTGGCCTTCTCAAGGAAGCCAGCTCCCTGTGATTGAGAATAAAGTGTGCAATCGCTAT
GAGTTTCTGAATGGAAGAGTCCAATCCACCGAACTCTGTGCTGGGCATTTGGCCGGAGGCACTGACAGTTGCCAG
GGTGACAGTGGAGGTCTCTGGTTTGCTTCGAGAAGGACAAATACATTTTACAAGGAGTCACTTCTTGGGGTCTT
GGCTGTGCACGCCCAATAAGCCTGGTGTCTATGTTCTGTGTTTCAAGGTTTGTACTTGGATTGAGGGAGTGATG
AGAAATAATTAAATTGGACGGGAGACAGAGTGACGCACTGACTCACCTAGAGGCTGGGACGTGGGTAGGGATTAG
CATGCTGGAAATAACTGGCAGTAATCAAACGAAGACACTGTCCCAGCTACCAGCTACGCCAAACCTCGGCATTT
TTTGTTTATTTTCTGACTGCTGGATTCTGTAGTAAGGTGACATAGCTATGACATTTGTTAAAAATAAATCTGT
ACTTAACTTTGATTTGAGTAAATTTTGGTTTT

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FIGURE 1966

MEHKEVVLLLLLLFLKSGQGEPLDDYVNTQGASLFSVTKKQLGAGSIEECAAKCEEDEEFTCRAFOYHSKEQQCVI
MAENRKSSIIIRMRDVVLFEEKVYLSECKTGNGKNYRGTMSTKNGITCQKWSSTSPHRPRFSPATHPSEGLEEN
YCRNPDNDPQGPWCYTDDPEKRYDYCDILECEEECMHCSGENYDGKISKTMGLECQAWDSQSPHAHGYIPSKFP
NKNLKKNYCRNPDRELRPWCFTTDPNKRWELCDIPRCTTPPPSSGPTYQCLKGTGENYRGNAVTVSGHTCQHWS
AQTPHTHNRTPENFPCKNLDENYCRNPDGKRAPWCHTTNSQVRWEYCKIPSCDSSPVSTEQLAPTAPPELTPVVQ
DCYHGDGQSYRGTSSTTTTGKKCQSWSSMTPHRHQKTPENYPNAGLTMNYCRNPDADKGPWCFTTDPVSRWEYCN
LKKCSGTEASVVAPPPVLLPDVETPSEEDCMFGNGKGYRGKRATTVTGTPCQDWAAQEPHRHSIFTPETNPRAG
LEKNYCRNPDGDVGGPWCYTTPNPKLYDYCDVPQCAAPSFDCGKPQVEPKKCPGRVVGGCVAHPSWPWQVSLRT
RFGMHFCGGTLISPEWVLTAACHLEKSPRPSSYKVILGAHQEVNLEPHVQEIEVSRLFLEPTRKDIALLLKSSPA
VITDKVIPACLPSPNYVADRTECFITGWGETQGTFGAGLLKEAQLPVIENTVCNRYEFLNGRVQSTELCAGHLA
GGTDSCQGDSSGGLVCFEKDYILQGVTSWGLGCARPKNKPGVYVRVSRFVTWIEGVMRNN

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FIGURE 1967

CGGCGCCGCGAGCTTCTCCTCTCCTCACGACCGAGGCAGAGCAGTCATTATGCGGAACCTTGGCTGCTGGATGCT
GGTTCTCTTTGTGGCCACATGGAGTGACCTGGGCCTCTGCAAGAAGCGCCCGAAGCCTGGAGGATGGAACACTGG
GGGAGCCGATACCCGGGGCAGGGCAGCCCTGGAGGCAACCGCTACCCACCTCAGGGCGGTGGTGGCTGGGGGCA
GCCTCATGGTGGTGGCTGGGGGCAGCCTCATGGTGGTGGCTGGGGGCAGCCCCATGGTGGTGGCTGGGGACAGCC
ATGGTGGTGGCTGGGGTCAAGGAGGTGGCACCCACAGTCAGTGGAAACAAGCCGAGTAAGCCAAAAACCAACAT
ACATGGCTGGTGGCTGCAGCAGCTGGGGCAGTGGTGGGGGGCCTTGGCGGCTACATGCTGGGAAGTGCCAT
TAGGCCCATCATACTTCGGCAGTGACTATGAGGACGTTACTATCGTGAAAACATGCACCGTTACCCCAA
CAAGTGTACTACAGGCCCATGGATGAGTACAGCAACCAGAACAACCTTTGTGCACGACTGCGTCAATATCACAA
CAGCAGCACACGGTCACCACAACCACCAAGGGGGGAGAACTTCACCGAGACCGACGTTAAGATGATGGAGCGGT
GAGAGCAGATGTGTATCACCCAGTACGAGAGGGAATCTCAGGCCTATTACCAGAGAGGATCGAGCATGGTCTT
CTCCTCTCCACCTGTGATCCTCCTGATCTCTTCTCCTCATCTTCTGATAGTGGGATGAGGAAGGTCTTCTTG
TACCACATCTTTCTAATCTTTTCCAGCTTGAGGGAGGCGGTATCCACCTGCAGCCCTTTAGTGGTGGTGT
ACTCTTTCTTCTCTCTTTGTCCCGGATAGGCTAATCAATACCCTTGGCACTGATGGGCACTGGAAAACATAGA
GAGACCTGAGATGCTGGTCAAGCCCCCTTGATTGAGTTTCATCATGAGCCGTTGCTAAAGCCAGGCCAGTAAAA
GATAACAGCAAATAACCATTGGTTAATCTGGACTTATTTTTGGACTTAGTGCAACAGGTTGAGGCTAAACAAA
TCTCAGAACAGTCTGAAATACCTTTGCCTGGATACCTCTGGCTCCTTCAGCAGCTAGAGCTCAGTATACTAATGC
CCTATCTTAGTAGAGATTTTCATAGCTATTTAGAGATATTTTCCATTTTAAAGAAAACCCGACAACATTTCTGCCAG
GTTTGTAGGAGGCCACATGATACCTTATTCAAAAAATCCTAGAGATTCTTAGCTCTTGGGATGCAGGCTCAGCC
CGCTGGAGCATGAGCTCTGTGTGTACCGAGAACTGGGGTGATGTTTTACTTTTCACAGTATGGGCTACACAGCAG
CTGTTCAACAAGAGTAAATATTGTCAACAACACTGAACCTCTGGCTAGAGGACATATTCACAGTGAACATAACTGT
AACATATATGAAAGGCTTCTGGGACTTGAAATCAAATGTTTGGGAATGGTGCCCTTGGAGGCAACCTCCCATTTT
AGATGTTTAAAGGACCCTATATGTGGCATTCTTTCTTTAACTATAGGTAATTAAGGCAGCTGAAAAGTAAATT
GCCTTCTAGACACTGAAGGCAAATCTCCTTTGTCCATTTACCTGGAAACCAGAATGATTTTGACATACAGGAGAG
CTGCAGTTGTGAAAGCACCATCATCATAGAGGATGATGTAATTAATAAATGGTCAGTGTGCAAGAAAAGAACTG
CTTGCACTTTCTTTATTTCTGTCTCATAATTGTCAAAAACCAGAATTAGGTCAAGTTCATAGTTTCTGTAATTGGC
TTTTGAATCAAAGAATAGGGAGACAATCTAAAAAATATCTTAGGTTGGAGATGACAGAAATATGATTGATTTGAA
GTGGAAAAAGAAATCTGTTAATGTTAATTAAGTAAATTAATCCCTGAATTGTTTGATATTGTACCTAGCAG
ATATGTATTACTTTTCTGCAATGTTATTATTGGCTTGCACTTTGTGAGTATCTATGTAAAAATATATATGTATAT
AAAATATATATTGCATAGGACAGACTTAGGAGTTTTGTTTAGAGCAGTTAACATCTGAAGTGTCTAATGCATTAA
CTTTTGTAAGGTACTGAATACTTAATATGTGGGAAACCTTTTGCCTGGTCCCTTAGGCTTACAATGTGCACTGAA
TCGTTTCATGTAAGAATCAAAGTGGACACCATTAACAGGTCTTTGAAATATGCATGTACTTTATATTTTCTATA
TTTGTAACCTTGCATGTTCTTGTGTTTGTATATAAAAAAATTGTAAATGTTTAATATCTGACTGAAATTAAACGA
CGAAGATGAGCACC

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FIGURE 1968

MANLGCWMLVLFVATWSDLGLCKKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGGGWGQPHGGGWGQPHGGGWGQ
PHGGGWGQPHGGGWGQGGGTHSQWNKPSKPKNMKHMAGAAAAGAVVGGLGGYMLGSAMSRPIIHFGSDYEDRY
RENMHRYPNQVYYRPMDEYSNQNNFVHDCVNITIKQHTVTTTTKGENFTETDVKMMERVVEQMCITQYERESQAY
YQRGSSMVLFSPPVILLISFLIFLIVG

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FIGURE 1969

CCACGCGTCCGCGGACGCGTGGGCGAGAAGTGCTTCCAAGCGTCCATTTTGAGCCTTGAAACTACGACGACCAA
AGGGCCACGGGTTCTGGGTCGTTTCTCATTTCGCTCGAGTTAAACGCTCTGGGGCTGCTTCTGAGGAATCAGCTT
GGCTGGCCAGCAAGTTCAGCTCCGGCAAGTCATTGATTACCCGGTGATGAAATGGGGGTCAACCAGTCTGTGG
GCTTTCACCTGTACAGGACCCACCTCGTAGGCTGTGGGGATGTGATGGAGGGTCAGAATCTCCAGGGGAGCT
TCTTTCGACTCTTCTACCCCTGCCAAAAGGCAGAGGAGACCATGGAGCAGCCCCTGTGGATTCCCCGCTATGAGT
ACTGCACTGGCCTGGCCGAGTACCTGCAGTTTAATAAGCGCTGCGGGGGCTTGCTGTTCAACCTGGCGGTGGGAT
CTTGTCGCCTGCCTGTTAGCTGGAATGGCCCCTTTAAAGACAAAGGACTCTGGATAACCCCTTGATCATCTTCTCCC
ATGGCCTAGGAGCCTTCAGGACTTGTATTAGCCTTCTGCATGGAGCTGGCCTCACGTGGCTTTGTGGTTGCTG
TGCCAGAGCACAGGGACCGGTACGCGGCAACCACCTATTTCTGCAAGCAGGCCCCAGAAGAGAACCAGCCCACCA
ATGAATCGCTGCAGGAGGAATGGATCCCTTTCCGTCGAGTTGAGGAAGGGGAGAAGGAATTTTCATGTTCCGGAATC
CCCAGGTGCATCAGCGGGTAAGCGAGTGTTTACGGGTGTTGAAGATCCTGCAAGAGGTCACGTGCTGGGCAGACTG
TCTTCAACATCTTGCTGGTGGCTTGGATCTGATGACTTTGAAGGGCAACATTGACATGAGCCGTGTGGCTGTGA
TGGGACATTCATTTGGAGGGGCCACAGCTATTCTGGCTTTGGCCAAGGAGACCCAATTCGGTGTGCGGTGGCTC
TGGATGCTTGGATGTTTCTCTGGAACGTGACTTTTACCCCAAGGCCCCGAGGACCTGTGTTCTTTATCAATACTG
AGAAATTCAGACAATGGAGAGTGTCAATTTGATGAAGAAGATATGTGCCAGCATGAACAGTCTAGGATCATAA
CCGTTCTTGGTTCTGTTTCATCGGAGTCAAACCTGACTTTGCTTTTGTGACTGGCAACTTGATTGGTAAATTCTTCT
CCACTGAAACCCGTGGGAGCCTGGACCCCTATGAAGGGCAGGAGGTTATGGTACGGGCCATGTTGGCCTTCCTGC
AGAAGCACCTCGACCTGAAAGAAGACTATAATCAATGGAACAACCTTATTGAAGGCATTGGACCGTCGCTCACCC
CAGGGGCCCCCACCATCTGTCCAGCCTGTAGGCACAACCTGGCCATTTGTAAAGTCACTTCAGCCAAGTTTTCAT
TTGGGAGCTACCCAAGGGCACCCATGAGCTCCTATCAAGAAGTGATCAACGTGACCCCTTTTCACAGATTGAAAG
GTGTAATCACACTGCTGCTTGGATAACTGGGTACTTTGATCTTAGATTTGATCTTAAATCACTTTGGGACTGGG
ATCCCTTGCTGATTGACAAACAGACTTTCTGGGACCTTGATGGAGTGGGGAACAAGCAGTAGAGTGGGACTGGGG
GAGACCCAGGCCCCGGGCTGAGCACTGTGAGGCCTGGATGTGAAGACTCAGCCCAGCGAAGCTCATTCCCTTACC
CCCGGCCAGTGCTGCTGCTTCAGTGGAAGAGATGAAGCCAAAGGACAGAATGAAAATCCCTACCTTCAGAGACTC
TAGCCCAGCCCAACACCATCTCTTCTACCTCTCAGCCTTCTCCCTCCCCAGGGCCACTTGTTGAAGTCTGAGCA
CTTTATGTAAATTTCTAGGTGTGAGCCGTGATCACATTTTCTATTTATTTCCAAGTCTTCTCATTGTATGGAACA
TAGTACTACTTATACTTACAGTAGTAAGTTATACTTGTGAGCCACAGAGTGGCAGACAGCATGGCTCTCACAGC
ACAGGGAGAAAACTGAGGTACACAGAGGTACCTCAGAAGCTCTGGATGTCTTTGGGGGTTTTGCTAAGTGTATC
TTGATAGGAAACAACAAAAGCAGGTTGAGATGGGGAAGATGACAGAACAACAGTGTTAAATGGCCATTTGCACAG
GCCTTTGCCACAACAGAGAAGTAGTTTGGTCAGCTAAACTCAGCTGCAGCCTGGACAGTAGAGCGAGACCCCAT
CTTAAAAATAAAGAAGGCTGGGCGTGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGGCCAAGGCAGGCAGA
TCACTTAAGGCCAGGAGTTCAAGACCACCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATT
AGCCTGGCGTAATGGCAGGCGCCTATAATCCAGCTACTCAGGAGGCTGAAGCAGAAGAATCACTTGAACCTAGG
AGGCGGAGGTTGCAGTGAGTCAAGATCGCGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTT

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FIGURE 1970

MGVNQSVGFPPVTGPHLVGCGDVMEGQNLQGSFFRLFYPCQKAEETMEQPLWIPRYEYCTGLAEYLOFNKRCGGL
LFNLAVGSCRLPVSWNGPFKTKDSGYPLIIFSHGLGAFRTLVSFCMELASRGFVVAVPEHRDRSAATTYFCKQA
PEENQPTNESLQEEWIPFRRVEEGEKEFHVRNPQVHQRVSECLRVLKILQEVTAGQTVFNILPGGLDLMTLKGNI
DMSRVAVMGHSFGGATAILALAKETQFRCAVALDAWMFPLERDFYPKARGPVFFINTEKFQTMESVNLMMKICAQ
HEQSRIITVLGSVHRSQTDFAFVTGNLIGKFFSTETRGS�DPYEGQEVMMVRAMLAFLOKHLDLKEDYNQWNNLIE
GIGPSLTPGAPHHLSSL

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FIGURE 1971

TTTCCAGCCATGGCTGCCATTACCTGACCAGCGCCACAGCCGGTCTCTCTGCAGGCGCCGGGAGAAGTGACCAGA
GCAATTTCTGCTTTTTCACAGGGCGGGTTTCTCAACGGTGACTTGTGGGCAGTGCCTTCTGCTGAGCGAGTCATGG
CCCGAAGGCAGAACTAACTGTGCCTGCAGTCTTCACTCTCAGGATGCAGCCGAGGTGGGCCCAAGGGGCCACGAT
GTGGCTTGGAGTCTGTGACCTTCTGCTCTGTTCAAGCCTTGAGGGTCAAGAAAACCTTTTACAATCAACAG
TGTTGACATGAAGAGCCTGCCGGACTGGACGGTGCAAAATGGGAAGAACCTGACCCTGCAGTGCTTCGCGGATGT
CAGCACCACCTCTCACGTCAAGCCTCAGCACCAGATGCTGTTCTATAAGGATGACGTGCTGTTTTACAACATCTC
CTCCATGAAGAGCACAGAGAGTTATTTTATTCCTGAAGTCCGGATCTATGACTCAGGGACATATAAATGTACTGT
GATTGTGAACAACAAAGAGAAAACCACTGCAGAGTACCAGGTGTTGGTGGAAGGAGTGCCAGTCCCAGGGTGAC
ACTGGACAAGAAAGAGGCCATCCAAGGTGGGATCGTGAGGGTCAACTGTTCTGTCCCAGAGGAAAAGGCCCAAT
ACACTTCACAATTGAAAACTTGAACATAATGAAAAATGGTCAAGCTGAAAAGAGAGAAGAATTCTCGAGACCA
GAATTTTGTGATACTGGAATTCCCCGTTGAGGAACAGGACCGCGTTTTATCCTTCCGATGTCAAGCTAGGATCAT
TTCTGGGATCCATATGCAGACCTCAGAATCTACCAAGAGTGAACCTGGTCACCGTGACGGAATCCTTCTCTACACC
CAAGTTCCACATCAGCCCCACCGGAATGATCATGGAAGGAGCTCAGCTCCACATTAAGTGCACCATTCAAGTGAC
TCACCTGGCCAGGAGTTTCAGAAATCATAATTGAGAAGACAAGGCGATTGTGGCCCAACAGACATGGCAA
CAAGGCTGTGTAAGTCAAGTCAAGTGGTGGAGCACAGTGGCAACTACACGTGCAAAGTGGAGTCCAGCCGCAT
ATCCAAGGTGACGAGCATCGTGGTCAACATAACAGAACTATTTTCCAAGCCGAAGTGAATCTTCTTACACA
TCTGGACCAAGGTGAAAGACTGAACCTGTCTGCTCCATCCCAGGAGCACCTCCAGCCAACCTTACCATCCAGAA
GGAAGATACGATTGTGTACAGACTCAAGATTTACCAAGATAGCCTCAAAGTCGGACAGTGGGACGTATATCTG
CACTGCAGGTATTGACAAAGTGGTCAAGAAAAGCAACACAGTCCAGATAGTCGTATGTGAAATGCTCTCCCAGCC
CAGGATTTCTTATGATGCCAGTTTGAGGTGATAAAAGGACAGACCATCGAAGTCCGTTGCGAATCGATCAGTGG
AACTTTGCCTATTTCTTACCAACTTTTAAAAACAAGTAAAGTTTGGAGAATAGTACCAAGAACTCAAATGATCC
TGCGGTATTCAAAGACAACCCCACTGAAGACGTGCAATACCAAGTGTGTTGCAGATAATTGCCATTCCCACGCCAA
AATGTTAAGTGAGGTTCTGAGGGTGAAGGTGATAGCCCCGGTGATGAGGTCCAGATTTCTATCCTGTCAAGTAA
GGTGGTGGAGTCTGGAGAGGACATTGTGCTGCAATGTGCTGTGAATGAAGGATCTGGTCCCATCACCTATAAGTT
TTACAGAGAAAAAGAGGGCAAACCTTCTATCAAATGACCTCAAATGCCACCCAGGCATTTTGGACCAAGCAGAA
GGCTAACAAGGAACAGGAGGGAGAGTATTACTGCACAGCCTTCAACAGAGCCAACACGCCTCCAGTGTCCCCAG
AAGCAAAATACTGACAGTCAAGTCAATCTTGCCCCATGGAAGAAAGGACTTATTGCAGTGGTTATCATCGGAGT
GATCATTGCTCTCTTGATCATTGCGGCCAAATGTTATTTCTGAGGAAAGCCAAGGCCAAGCAGATGCCAGTGGAA
AATGTCCAGGCCAGCAGTACCACTTCTGAACTCCAACAACGAGAAAATGTGAGATCCCAATATGGAAGCTAACAG
TCATTACGGTCACAATGACGATGTGCGAAACCATGCAATGAAACCAATAAATGATAATAAAGAGCCTCTGAACTC
AGACGTGCAGTACACGGAAGTTCAAGTGTCTCAGCTGAGTCTCACAAGATCTAGGAAAGAAGGACACAGAGAC
AGTGTACAGTGAAGTCCGGAAGCTGTCCCTGATGCCGTGGAAAGCAGATACTCTAGAACGGAAGGCTCCCTTGA
TGGAACCTTAGACAGCAAGGCCAGATGCACATCCCTGGAAGGACATCCATGTTCCGAGAAGAACAGATGATCCCTG
TATTTCAAGACCTCTGTGCACTTATTTATGAACCTGCCCTGCTCCCACAGAACACAGCAATTCCTCAGGCTAAGC
TGCCGGTTCTTAAATCCATCCTGCTAAGTTAATGTTGGGTAGAAAGAGATACAGAGGGGCTGTTGAATTTCCCAC
ATACACTCCTTCCACCAAGTTGGAACATCCTTGGAATTTGGAAGAGCACAAGAGGAGATCCAGGGCAAGGCCATT
GGGATATTCTGAACTTGAATATTTGTTTTGTGTCAGAGATAAAGACCTTTTCCATGCACCTCATACACAGAAA
CCAATTTTCTTTTTTATACTCAATCATTTCTAGCGCATGGCCTGGTTAGAGGCTGGTTTTTCTCTTTCTTTG
GTCCTTCAAAGGCTTGTAGTTTGGGTAGTCCTTGTTCTTTGGAATAACACAGTGTGACAGACAGCCTCCCCC
TGTCCTCTATGACCTCGCCCTCCACAAATGGGAAAACAGACTACTTGGGAGCACCGCCTGTGAAATACCAAC
CTGAAGACACGGTTTCATTGAGGCAACGCACAAAACAGAAAATGAAGGTGGAACAAGCACAGATGTTCTTCAACTG
TTTTTGTCTACACTCTTTCTCTTTTCTCTTACCATGCTGAAGGCTGAAAGACAGGAAGATGGTGCCATCAGCAA
TATTATTCTTAATTGAAAACCTTGAAAAA

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FIGURE 1972

MQPRWAQGATMWLGVLLTLLLCSSLEGQENSFTINSVDMKSLPDWTVQNGKNLTLCFADVSTTSHVKPQHQMFLF
YKDDVLFYNISSMKSTESYFIPEVRIYDSGTYKCTVIVNNKEKTTAEYQVLVEGVSPRVTLDKKEAIQGGIVRV
NCSVPEEKAPIHFTIEKLELNEKMVKLKREKNSRDQNFVILEFPVEEQDRVLSFRCQARIISGIHMQTSESTKSE
LVTVTESFSTPKFHISPTGMIMEGAQLHIKCTIQVTHLAQEFPEII IQDKAIVAHNRHGNKAVYSVMAMVEHSG
NYTCKVESSRISKVSSIVVNITELFSKPELESSFTHLDQGERLNLSCSIPGAPPANFTIQKEDTIVSQTQDFTKI
ASKSDSGTYICTAGIDKVVKSNVTQIVVCEMLSQPRI SYDAQFEVIKGQTIEVRCEISGTLPI SYQLLKT SKV
LENSTKNSNDPAVFKDNPTEDVEYQCVADNCHSHAKMLSEVLRVKVIAPVDEVQISILSSKVVESGEDIVLQCAV
NEGSGPITYKFYREKEGKPFYQMTSNATQAFWTKQKANKEQEGEYYCTAFNRANHASSVPRSKILT VRVILAPWK
KGLIAVVIIGVIIALLIIAAKCYFLRKAKAKQMPVEMSRPAVPLLNSNNEKMSPDNMEANSHYGHND DVGNHAMK
PINDNKEPLNSDVQYTEVQVSSAESHKDLGKKDTETVYSEVRKAVPDAVESRYSRTEGSLDGT

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FIGURE 1973

AGCTTTTCTCTTCTGTCAACCCACACGCCCTTTGGCACAATGAAGTGGGTAACCTTTATTTCCCTTCTTTTCTC
TTTAGCTCGGCTTATTCCAGGGGTGTGTTTCGTGCGAGATGCACACAAGAGTGAGGTTGCTCATCGGTTTAAAGAT
TTGGGAGAAGAAAATTTCAAAGCCTTGGTGTTGATTGCCCTTTGCTCAGTATCTTCAGCAGTGTCCATTTGAAGAT
CATGTAAAATTAGTGAATGAAGTAACTGAATTTGCAAAAACATGTGTTGCTGATGAGTCAGCTGAAAATTGTGAC
CACTACTTCATACCCCTTTTTGGAGACAAATTATGCACAGTTGCAACTCTTCGTGAAACCTATGGTGAAATGGCT
TCTGTGCAAAACAAGAACCTGAGAGAAATGAATGCTTCTTGCAACACAAAGATGACAACCCAAACCTCCCC
AATTGGTGAGACCAGAGGTTGATGTGATGTGCACTGCTTTTCATGACAATGAAGAGACATTTTTGAAAAAATAC
TTATATGAAATTGCCAGAAGACATCCTTACTTTTTATGCCCGGAACCTCTTTTCTTTGCTAAAAAGGTATAAAGCT
CTTTTACAGAATGTTGCCAAGCTGCTGATAAAGCTGCCTGCCTGTTGCCAAAGCTCGATGAACTTCGGGATGAA
GAAGGCTTCGTCTGCCAAACAGAGACTCAAGTGTGCCAGTCTCCAAAAATTTGGAGAAAAGAGCTTTCAAAGCA
CTTCAGTAGCTCGCCTGAGCCAGAGATTTCCCAAAGCTGAGTTTGCAGAAGTTTCCAAGTTAGTGACAGATCTT
CAAAAGTCCACACGGAATGCTGCCATGGAGATCTGCTTGAATGTGCTGATGACAGGGCGGACCTTGCCAAGTAT
AATGTGAAAATCAAGATTCGATCTCCAGTAACTGAAGGAATGCTGTGAAAACCTCTGTTGAAAAATCCAC
TTCATTGCCGAAGTGGAAGATGATGAGATGCCCTGCTGACTTGCCCTTCATTAGCTGCTGATTTTGTGAAAGTAAG
GATGTTTGCAAAAATATGCTGAGGCAAAGGATGTCTTCTGGGCATGTTTTGTATGAATATGCAAGAAGGCAT
CCTGATTACTCTGTGCTGCTGCTGCTGAGACTTGCCAAGACATATGAAACCACTCTAGAGAAGTGCTGTGCCGCT
GCAGATCCTCATGAATGCTATGCCAAAGTGTTGATGAATTTAAACCTCTTGTTGGAAGAGCCTCAGAATTTAATC
AAACAAAATTGTGAGCTTTTTGAGCAGCTTGAGAGGTACAAATTCAGAATGCGCTATTAGTTCGTTACACCAAG
AAAGTACCCCAAGTGTCAACTCCAACCTCTGTAGAGGTCTCAAGAAACCTAGGAAAAGTGGGCAGCAAATGTTGT
AAACATCCTGAAGCAAAAAGAATGCCCTGTGCAGAAGACTATCTATCCGTGGTCCTGAACCAAGTTATGTGTGTTG
CATGAGAAAACGCCAGTAAGTGACAGAGTCACCAAATGCTGCACAGAATCCTTGGTGAACAGGCGACCATGCTTT
TCAGCTCTGGAAGTCGATGAAACATACGTTCCCAAAGAGTTTAATGCTGAAACATTCACCTTCCATGCAGATATA
TGCACACTTTCTGAGAAGGAGAGACAAATCAAGAAACAACTGCACTTGTTGAGCTCGTGAAACACAAGCCCAAG
GCAACAAAAGAGCAACTGAAAGCTGTTATGGATGATTTTCGAGCTTTTGTAGAGAAGTGCTGCAAGGCTGACGAT
AAGGAGACCTGCTTTGCCGAGGAGGGTAAAAAATTTGTTGCTGCAAGTCAAGCTGCCTTAGGCTTATAACATCTA
CATTTAAAGCATCTCAGCCTACCATGAGAATAAGAGAAAGAAAATGAAGATCAAAGCTTATTCATCTGTTTTT
TTTTTCGTTGGTGTAAGCCAACACCCTGTCTAAAAAACATAAATTTCTTTAATCATTTTGCCTCTTTTCTCTGT
GCTTCAATTAATAAAAAATGGAAAGAATCTAATAGAGTGGTACAGCACTGTTATTTTTCAAAGATGTGTTGCTAT
CCTGAAAATTCTGTAGGTTCTGTGGAAGTTCCAGTGTCTCTCTTATTCCACTTCGGTAGAGGATTTCTAGTTTC
TGTGGGCTAATTAAATAAATCACTAATACTCTTCTAAGTT

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FIGURE 1974

MKWWTFISLLFLFSSAYSRGVFRDAHKSEVAHRFKDLGEENFKALVLIAFAQYLQQCPFEDHVKLNVTEFAK
TCVADESAENCDSLHTLFGDKLCTVATLRETYGEMADCCAKQEPERNECFLOHKDDNPNLPRLVRPEVDVMCTA
FHDNEETFLKKYLYEIARRHPYFYAPELLFFAKRYKAAFTECCQAADKAACLLPKLDELDEGKASSAKQRLKCA
SLQKFGERAFAKAWAVARLSQRFPKAEFAEVSKLVTDLTGVHTECCHGDLLECADDRADLAKYICENQDSISSKLK
ECCEKPLLEKSHCIAEVENDEMPADLP SLADFVESKDVCKNYAEAKDVFLGMFLY EYARRHPDYSVLLLLRLAK
TYETTLEKCCAAADPHECYAKVFDEFKPLVEEPQNLIKQNCLEQLGEYKFQNALLVRYTKKVPQVSTPTLVEV
SRNLGKVGSKCKHPEAKRMPCAEDYLSVVLNQLCVLHEKTPVSDRVTKCTESLVNRRPCFSALEVDETYVPKE
FNAETFTFHADICTLSEKERQIKQTALVELVKHKPKATKEQLKAVMDDFAAFVEKCKADDKETCFAEEGKKLV
AASQAALGL

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FIGURE 1975

GGCACGAGGGTGTGCGTGATGGAGAAAATTGGGCACCAGGGCTGCTCCCGAGATTCTCAGATCTGATTTCACGC
TTGCTACCAAAATAGTCTGGGCAGGCCACTTTTGGAGTAGGCGTTATCTAGTGAGCAGGCGGCCGCTTTCGATT
TCGCTTTCCCTAAATGGCTGAGCTTCTCGCCAGCGCAGGATCAGCCTGTTCTGGGACTTTCCGAGAGCCCCG
CCTCGTTCCCTCCCCAGCCGCCAGTAGGGGAGGACTCGGCGGTACCCGGAGCTTCAGGCCCCACCGGGCGCGG
AGAGTCCCAGACCCGGCCGGGACCGGGACGGCGTCCGAGTGCCAATGGCTAGCTCTAGGTGTCCCGCTCCCCGCG
GGTGCCGCTGCCTCCCCGGAGCTTCTCTCGCATGGCTGGGGACAGTACTGCTACTTCTCGCCGACTGGGTGCTGC
TCCGGACCGCGCTGCCCCGCATATTCTCCCTGCTGGTGCCACC GCGCTGCCACTGCTCCGGGTCTGGGCGGTGG
GCCTGAGCCGCTGGGCCGTGCTCTGGCTGGGGCCCTGCGGGTCTCAGGGCAACGGTTGGCTCCAAGAGCGAAA
ACGCAGGTGCCCAGGGCTGGCTGGCTGCTTTGAAGCCATTAGCTGCGGCACTGGGCTTGGCCCTGCCGGGACTTG
CCTTGTTCCGAGAGCTGATCTCATGGGGAGCCCCGGGTCCGCGGATAGCACCAGGCTACTGCACTGGGGAAGTC
ACCCTACCGCCTTCGTTGTGCTAGTTATGCAGCGGCACTGCCCGCAGCAGCCCTGTGGCACAACCTCGGGAGCCTCT
GGGTGCCCCGGCGGTGAGGGCGGCTCTGGAAACCTGTGCGTCGGCTTCTAGGCTGCCTGGGCTCGGAGACGCGCC
GCCTCTCGCTGTTTCTGGTCTGTTGGTCTCTCTCTCTTGGGGAGATGGCCATTCCATTCTTTACGGGCGGCC
TCACTGACTGGATTCTACAAGATGGCTCAGCCGATACCTTCACTCGAAACTTAACCTCATGTCCATTCTCACCA
TAGCCAGTGCACTGCTGGAGTTCGTGGGTGACGGGATCTATAACAACACCATGGGCCACGTGCACAGCCACTTGC
AGGGAGAGGTGTTTGGGGCTGTCTGCGCCAGGAGACGGAGTTTTTCCAACAGAACAGACAGGTAACATCATGT
CTCGGGTAACAGAGGACACGTCCACCCTGAGTGATTCTCTGAGTGAGAATCTGAGCTTATTTCTGTGGTACCTGG
TGCGAGGCCATATGTCTCTTGGGGATCATGCTCTGGGGATCAGTGTCCTCACCATGGTCACCCTGATCACCCTGC
CTCTGCTTTTCTTCTGCCCCAAGAAGGTGGGAAAATGGTACCAGTTGCTGGAAGTGCAAGTGCGGGAATCTCTGG
CAAAGTCCAGCCAGGTGGCCATTGAGGCTCTGTGCGCCATGCCTACAGTTTGAAGCTTTGCCAACGAGGAGGGCG
AAGCCCAGAAGTTTAGGGAAAAGCTGCAAGAAATAAGACACTCAACCAGAAGGAGGCTGTGGCCTATGCAGTCA
ACTCCTGGACCACTAGTATTTTCAAGTATGCTGCTGAAAGTGGGAATCCTCTACATTGGTGGGCAGCTGGTGACCA
GTGGGGCTGTAAGCAGTGGGAACCTTGTACATTTGTTCTTACCAGATGCAGTTCACCCAGGCTGTGGAGGTAC
TGCTCTCCATCTACCCAGAGTACAGAAGGCTGTGGGGCTCCTCAGAGAAAATATTTGAGTACCTGGACCGCACCC
CTCGCTGCCCCACCCAGTGGTCTGTTGACTCCCTTACACTTGGAGGGCTTGTCCAGTTCCAAGATGTCTCCTTTG
CCTACCCAAACCGCCAGATGTCTTAGTGCTACAGGGGCTGACATTACCCCTACGCCCTGGCGAGGTGACGGCGC
TGGTGGGACCCAATGGGTCTGGGAAGAGCACAGTGGCTGCCCTGCTGCAGAATCTGTACCAGCCACCGGGGGAC
AGCTGCTGTTGGATGGGAAGCCCCTTCCCCAATATGAGCACCGCTACCTGCACAGGCAGGTGGCTGCAGTGGGAC
AAGAGCCACAGGTATTTGGAAGAAGTCTTCAAGAAAATATTGCCTATGGCCTGACCCAGAAGCCAACATATGGAGG
AAATCACAGCTGCTGCAGTAAAGTCTGGGGCCCATAGTTTTCATCTCTGGACTCCCTCAGGGCTATGACACAGAGG
TAGACGAGGCTGGGAGCCAGCTGTCAGGGGGTCAAGCAGAGGAGTGGCGTTGGCCCGAGCATTGATCCGGAAAC
CGTGTGTACTTATCCTGGATGATGCCACCAGTGCCCTGGATGCAAACAGCCAGTTACAGGTGGAGCAGCTCCTGT
ACGAAAGCCCTGAGCGGTACTCCCGCTCAGTGCTTCTCATCACCAGCACCTCAGCCTGGTGGAGCAGGCTGACC
ACATCCTCTTTCTGGAAGGAGGCGCTATCCGGGAGGGGGGAACCCACCAGCAGCTCATGGAGAAAAAGGGGTGCT
ACTGGGCCATGGTGCAGGCTCCTGCAGATGCTCCAGAATGAAAGCCTTCTCAGACCTGCGCACTCCATCTCCCTC
CCTTTTCTTCTCTGTGGTGGAGAACCACAGCTGCAGAGTAGCAGCTGCCTCCAGGATGAGTTACTTGAAATTT
GCCTTGAGTGTGTTACCTCCTTTCCAAGCTCCTCGTGATAATGCAGACTTCTGGAGTACAAACACAGGATTTGT
AATTCCTACTGTAAACGGAGTTTAGAGCCAGGGCTGATGCTTTGGTGTGGCCAGCACTCTGAAACTGAGAAATGTT
CAGAATGTACGGAAAAGATGATCAGCTATTTTCAACATAACTGAAGGCATATGCTGGCCCATAAACACCCTGTAGG
TTCTTGATATTTATAATAAAATTGGTGTGTTTGT

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FIGURE 1976

MAELLASAGSACSWDFPRAPPSFPPPAASRGGLGGTRSFRRPHRGAESPRPGRDRDGVRVPMASRRCPAPRGCRCL
PGASLAWLGTVLLLLADWVLLRTALPRIFSLLVPTALPLLRVWAVGLSRWAVLWLGACGVLRA TVGSKSENAGAQ
GWLAAALKPLAAALGLALPGLALFRELI SWGAPGSADSTRLLHWGSHPTAFVVS YAAALPAAALWHKLGSLWVPGG
QGGSGNPFVRLLGCLGSETRRLSLFLVLVVLSSLGEMAI PFFTGR LTDWILQDGSADTFTRNLTLMSILT IASAV
LEFVG DGIYNN TMGHVHSHLQGEVFGAVLRQETEFFQQNQTGNIMSRVTEDTSTLSDSLSENLSLFLWYLVRGLC
LLGIMLWGSVSLTMVTLITLPLLFLLPKKVGK WYQLLEVQVRESLAKSSQVAIEALSAMPTVRSFANEEGEAQKF
REKLQEIKTLNQKEAVAYAVNSWTTSISGMLLKVGILYIGGQLVTSGAVSSGNLVTFVLYQMQFTQAVEVLLSIY
PRVQKAVGSSEKIFEYLDRTPRCPPSGLLTPLHLEGLVQFQDV SFAYPNRPDVLVLQGLTFTLRPGEV TALVGP N
GSGKSTVAALLQONLYQPTGGQLLLDGKPLPQYEHRYLHRQVA AVGQEPQVFGRSLQENIAYGLTQKPTMEEITAA
AVKSGAHSFISGLPQGYDTEVDEAGSQLSGGQRQAVALARALIRKPCVLI LDDATSALDANSQLQVEQLLYESPE
RYSRSVLLITQHLSLVEQADHILFLEGGAI REGGTHQQLMEKKGCYWAMVQAPAD APE

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FIGURE 1977

CAGGGGACAGGCTGCAGCCGGTGCAGTTACACGTTTTCTCCAAGGAGCCTCGGACGTTGTCACGGGTTTGGGGT
CGGGGACAGAGCAGTGACCATGGCCAGGCTGGCGTTGTCTCCTGTGCCCAGCCACTGGATGGTGGCGTTGCTGCT
GCTGCTCTCAGCTGAGCCAGTACCAGCAGCCAGATCGGAGGACCGGTACCGGAATCCCAAAGGTAGTGCTTGTTTC
GCGGATCTGGCAGAGCCCACGTTTCATAGCCAGGAAACGGGGCTTCACGGTGAAAATGCACTGCTACATGAACAG
CGCCTCCGGCAATGTGAGCTGGCTCTGGAAGCAGGAGATGGACGAGAATCCCCAGCAGCTGAAGCTGGAAAAGGG
CCGCATGGAAGAGTCCCAGAACGAATCTCTCGCCACCCTCACCATCCAAGGCATCCGGTTTGAGGACAATGGCAT
CTACTTCTGTGTCAGCAGAAGTGCAACAACACCTCGGAGGTCTACCAGGGCTGCGGCACAGAGCTGCGAGTCATGGG
ATTGAGCACCTTGGCACAGCTGAAGCAGAGGAACACGCTGAAGGATGGTATCATCATGATCCAGACGCTGCTGAT
CATCCTCTTCATCATCGTGCTATCTTCTGCTGCTGGACAAGGATGACAGCAAGGCTGGCATGGAGGAAGATCA
CACCTACGAGGGCCTGGACATTGACCAGACAGCCACCTATGAGGACATAGTGACGCTGCGGACAGGGGAAGTGAA
GTGGTCTGTAGGTGAGCACCCAGGCCAGGAGTGAGAGCCAGGTGCCCCATGACCTGGGTGCAGGCTCCCTGGCC
TCAGTGAAGTCTTCGGAGCTGCCTGGCTCATGGCCCAACCCCTTTCTGGACCCCCCAGCTGGCCTCTGAAGCTG
GCCCCACAGAGCTGCCATTTGTCTCCAGCCCCCTGGTCCCCAGCTCTTGCCAAAGGGCCTGGAGTAGAAGGACAAC
AGGGCAGCAACTTGGAGGGAGTTCTCTGGGGATGGACGGGACCCAGCCTTCTGGGGGTGCTATGAGGTGATCCGT
CCCCACACATGGGATGGGGGAGGCAGAGACTGGTCCAGAGCCCGCAAATGGACTCGGAGCCGAGGGCCTCCCAGC
AGAGCTTGGGAAGGGCCATGGACCCAACTGGGCCCCAGAAGAGCCACAGGAACATCATCCTCTCCCGCAACCAC
TCCCCACCCAGGGAGGCCCTGGCCTCCAGTGCCTTCCCCCGTGGAATAAACGGTGTGTCCTGAGAAACCA

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FIGURE 1978

MARLALSPVPSHWMVALLLLLSAEPVPAARSED RYRNPKGSACSRIWQSPRF IARKRGFTVKMHCYMNSASGNVS
WLWKQEMDENPQQLKLEKGRMEESQNESLATLTIQGIRFEDNGIYFCQQKCNTSEVYQGCGETLRVMGFSTLAQ
LKQRNTLKDGIIMIQTLLIILFIIIVPIFLLLDKDDSKAGMEEDHTYEGLDIDQTATYEDIVTLRTGEVKWSVGEH
PGQE

[illegible]

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FIGURE 1980

MQQPFNYYPQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPPPPPLPPPPPPPLPPLPLPPLKKRG
NHSTGLCLLVMMFFMVLVALVGLGLGMFQLFHLQKELAELESTSQMHTASSLEKQIGHPSPPPEKKELRKVAHLT
GKSNSRSMPLWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQSCNNLPLSHKVYMRNSKYPQDLVMM
EGKMMSYCTTGQMWARSSYLGAVFNLTSADHLYVNVSELSLVNFEESQTFFGLYKL

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FIGURE 1981

CTCCCTTTGGGCAAGGACCTGAGACCCTTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAGAACTAGAGAAGG
ACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTGTG
GGGGTGGACAATGCTCTGTTGTGATTTCTGGCACATCATGGAACCGACTGCTGGACTTACCATTATTCTGAAAA
ACCCATGAACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGC
GGAAATTGAGTATCTGGAGAAGACTCTGCCCTTTCAGTCGTTCTTACTACTGGATAGGAATCCGGAAGATAGGAGG
AATATGGACGTGGGTGGGAACCAACAAATCTCTTACTGAAGAAGCAGAGAAGTGGGGAGATGGTGAGCCCAACAA
CAAGAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGC
CTGCCACAACTAAAGGCAGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATG
TGTAAGAAATCATCAATAATTACACCTGCAACTGTGATGTGGGTACTATGGGCCCCAGTGTCAGTTTGTGATTCA
GTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCACCTTTGGGAACTTCAGCTTCAGCTC
ACAGTGTGCCTTCAGCTGCTCTGAAGGAACAACTTAACTGGGATTGAAGAAACCACCTGTGGACCATTGGA
CTGGTCATCTCCAGAACCAACCTGTCAAGTGATTCAAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAA
CTGTAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGGAACTGAGTTAAT
TGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAAAATTGGACAA
AAGTTTCTCAATGATTAAGGAGGGTGATTATAACCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTC
TGGGTTGGCATTATCATTGCGTGGCAAGGAGATTAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGACCC
ATATTAAATCGCCCTTGGTGAAAGAAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAATCCTTCCATGAA
ACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTGTTTCCTTCAGTGCATCTGGGAAGATTTCTACC
TGACCAACAGTTCCTTCAGCTTCCATTTGCCCCCTCATTTATCCCTCAACCCCCAGCCACAGGTGTTTATACAG
CTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAAGACCATAAAGGGAAAGGATTCATGTGGAATATAAAGATG
GCTGACTTTGCTCTTTCTTGACTCTTGTTTTCTGATTTCAATTCAGTGCTGTACTTGATGACAGACACTTCTAAAT
GAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGACAGATCAAATTCACGTCGTCTTCTGTAT
ACTGTGGAGGTACACTCTTATAGAAAGTTCAAAAAGTCTACGCTCTCCTTTCTTTCTAACTCCAGTGAAGTAATG
GGGTCTGCTCAAGTTGAAAGAGTCTTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAAC
TGGCTTCAGCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGTTGGCTGACTTCCACACCTAGCATCTCATGA
GTGCCAAGCAAAAGGAGAGAAGAGAGAAATAGCCTGCGCTGTTTTTTAGTTTGGGGGTTTTGCTGTTTTCTTTTA
TGAGACCCATTCTATTTCTTATAGTCAATGTTTCTTTTATCACGATATTATTAGTAAGAAAACATCACTGAAAT
GCTAGCTGCAAGTGACATCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGAAATTCCTTGATTACAAAT
GAAATGCTCTCCTTTCCCTGCCCCAGACCTTTTATCCACTTACCTAGATTCTACATATTCTTTAAATTTTCATC
TCAGGCCTCCCTCAACCCCACTTCTTTTATACTAGTCTTTTACTAATCCAACCCATGATGAGCTCCTCTTC
CTGGCTTCTTACTGAAAGGTTACCCTGTAACATGCAATTTTGCAATTGAATAAAGCCTGCTTTTTAAGTGTTAA

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FIGURE 1982

MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDWCWYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEY
LEKTLPFSSRSYYWIGIRKIGGIWTWVGTKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWND DACHKL
KAALCYTASCQPWSCSGHGECVEIINNYTCNCDVGYYGPQCQFVIQCEPLEAPELGTMDCTHPLGNFSFSSQCAF
SCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSTACTFICSEGTELIGKKK
TICSSGIWSNPSPICQLDKSF SMIKEGDYNPLFIPVAVMVTAFSGLAFI IWLARRLKKGKSKRSMNDPY

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FIGURE 1983A

TAGACGCACCCTCTGAAGATGGTGACTCCCTCCTGAGAAGCTGGACCCCTTGGTAAAAGACAAGGCCTTCTCCAA
GAAGAATATGAAAGTGTTACTCAGACTTATTTGTTTCATAGCTCTACTGATTTCTTCTCTGGAGGCTGATAAATG
CAAGGAACGTGAAGAAAAATAATTTTAGTGTCATCTGCAAATGAAATTGATGTTCTGTCCTGTCTCTTAACCC
AAATGAACACAAAGGCACTATAACTTGGTATAAAGATGACAGCAAGACACCTGTATCTACAGAACAAGCCTCCAG
GATTCATCAACACAAAGAGAACTTTGGTTTGTTCCTGCTAAGGTGGAGGATTTCAGGACATTACTATTGCGTGGT
AAGAAATTCATCTTACTGCCTCAGAATTAAAAATAAGTGCAAAATTTGTGGAGAATGAGCCTAACTTATGTTATAA
TGCACAAGCCATATTTAAGCAGAACTACCCGTTGCAGGAGACGGAGGACTTGTGTGCCCTTATATGGAGTTTTT
TAAAAATGAAAATAATGAGTTACCTAAATTACAGTGGTATAAGGATTGCAAACCTCTACTTCTTGACAATATACA
CTTTAGTGGAGTCAAAGATAGGCTCATCGTGATGAATGTGGCTGAAAAGCATAGAGGGAACATACTTGTCTATGC
ATCCTACACATACTTGGGCAAGCAATATCCTATTACCCGGGTAATAGAATTTATTACTCTAGAGGAAAACAAACC
CACAAGGCCTGTGATTGTGAGCCCAGCTAATGAGACAAATGGAAGTAGACTTGGGATCCCAGATACAATTGATCTG
TAATGTCAACGGCCAGTTGAGTGACATTGCTTACTGGAAGTGAATGGGTGAGTAATTGATGAAGATGACCCAGT
GCTAGGGGAAGACTATTACAGTGTGGAAAATCCTGCAACAAAAGAAGGAGTACCCTCATCAGTGTCTTAATAT
ATCGGAAATTGAAAGTAGATTTTATAAACATCCATTTACCTGTTTTGCCAAGAATACACATGGTATAGATGCAGC
ATATATCCAGTTAATATATCCAGTCACTAATTTCCAGAAGCACATGATTGGTATATGTGTACGTTGACAGTCAT
AATTGTGTGTTCTGTTTTCTATCTATAAAATCTTCAAGATTGACATTGTGCTTTGGTACAGGGATTCTCTGCTATGA
TTTTCTCCCAATAAAAAGCTTCAGATGGAAGACCTATGACGCATATATACTGTATCCAAAGACTGTTGGGGAAGG
GTCTACCTCTGACTGTGATATTTTTGTGTTTAAAGTCTTGCCTGAGGTCTTGGAAAAACAGTGTGGATATAAGCT
GTTCAATTTATGGAAGGGATGACTACGTTGGGGAAGACATTGTTGAGGTCAATTAATGAAAACGTAAAGAAAAGCAG
AAGACTGATTATCATTTTAGTCAGAGAAACATCAGGCTTCAGCTGGCTGGGTGGTTTCATCTGAAGAGCAAATAGC
CATGTATAATGCTCTTGTTCAGGATGGAATTAAAGTTGTCTGCTTGAGCTGGAGAAAATCCAAGACTATGAGAA
AATGCCAGAATCGATTAAATTCATTAAGCAGAAACATGGGGCTATCCGCTGGTCAGGGGACTTTACACAGGGACC
ACAGTCTGCAAAGACAAGGTTCTGGAAGAATGTCAGGTACCACATGCCAGTCCAGCGACGGTCACCTTCATCTAA
ACACCAGTTACTGTCACCAGCCACTAAGGAGAAACTGCAAAGAGAGGCTCACGTGCCTCTCGGGTAGCATGGAGA
AGTTGCCAAGAGTTCTTTAGGTGCCTCCTGTCTTATGGCGTTGCAGGCCAGGTTATGCCTCATGCTGACTTGCAG
AGTTCATGGAATGTAACATATATCATCCTTTATCCCTGAGGTACCTGGAATCAGATTATTAAGGGAATAAGCCAT
GACGTCAATAGCAGCCCAGGGCACTTCAGAGTAGAGGGCTTGGGAAGATCTTTTAAAAAGGCAGTAGGCCCGGTG
TGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCTGAAGTGGTGGATCACCAGAGGTGAGGAGTTGAGAG
CCAGCCCAGCCAACATGGCAAAACCCCATCTCTACTAAAAATACAAAATGAGCTAGGCATGGTGGCACACGCCT
GTAATCCCAGCTACACCTGAGGCTGAGGCAGGAGAATTGCTTGAACCGGGGAGACGGAGGTTGCAGTGAGCCGAG
TTTGGGCCACTGCACTCTAGCCTGGCAACAGAGCAAGACTCCGTCTCAAAAAAGGGCAATAAATGCCCTCTCTG
AATGTTTGAAGTGCCTAAGAAAAGGCATGGAGACAGCGAACTAGAAGAAAGGGCAAGAAGGAAATAGCCACCGTCT
ACAGATGGCTTAGTTAAGTCATCCACAGCCCAAGGGCGGGGCTATGCCTTGTCTGGGGACCCTGTAGAGTCACTG
ACCCTGGAGCGGCTCTCCTGAGAGGTGCTGCAGGCAAAGTGAGACTGACACCTCACTGAGGAAGGGAGACATATT
CTTGGAGAATTTCCATCTGCTTGTATTTCCATACACATCCCCAGCCAGAAGTTAGTGTCCGAAGACCGAATTT
TATTTTACAGAGCTTGAAAACCTCACTTCAATGAACAAAGGGATTCTCCAGGATTCCAAAGTTTTGAAGTCATCTT
AGCTTTCCACAGGAGGGAGAGAACTTAAAAAAGCAACAGTAGCAGGGAATTGATCCACTTCTTAATGCTTTCCCTC
CCTGGCATGACCATCCTGTCTTTGTTATTTATCCTGCATTTTACGTCTTTGGAGGAACAGCTCCCTAGTGGCTTC
CTCCGTCTGCAATGTCCCTTGACAGCCCAACATGAACCATCCTTCCCATGATGCCGCTCTTCTGTCTATCCCGC
TCCTGCTGAAACACCTCCCAGGGGCTCCACCTGTTTCAGGAGCTGAAGCCCATGCTTTCCCACCAGCATGTCACTC
CCAGACCACCTCCCTGCCCTGTCTCCAGCTTCCCTCGCTGTCTGCTGTGTGAATTCCCAGGTTGGCCTGGTG
GCCATGTGCGCTGCCCCAGCACTCCTCTGTCTCTGCTCTTGCCTCGACCCTTCCCTCCTTTGCCTAGGAGGC
CTTCTCGCATTTTCTCTAGCTGATCAGAAATTTACCAAATTCAGAACATCCTCCAATTCCACAGTCTCTGGGAG
ACTTTCCCTAAGAGGCGACTTCCCTCTCCAGCCTTCTCTCTGTTGAGGCCCACTGCAGAGATGGTGGTGAGCAC
ATCTGGGAGGCTGGTCTCCCTCCAGCTGGAATTGCTGCTCTCTGAGGGAGAGGCTGTGGTGGCTGTCTGTGCC
TCACTGCCTTCCAGGAGCAATTTGCACATGTAACATAGATTTATGTAATGCTTTATGTTTAAAAACATTCCCCAA
TTATCTTATTTAATTTTGAATTTTCTAATTTTATATATAGAGAAAGTGACCTATTTTTTAAAAAATCACAC
TCTAAGTTCTATTGAACCTAGGACTTGAGCCTCCATTTCTGGCTTCTAGTCTGGTGTCTGAGTACTTGATTTC

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FIGURE 1983B

GGTCAATAACGGTCCCCCTCACTCCACACTGGCACGTTTGTGAGAAGAAATGACATTTTGCTAGGAAGTGACCG
AGTCTAGGAATGCTTTTATTCAAGACACCAAATTCCAAACTTCTAAATGTTGGAATTTTCAAAAATTGTGTTTAG
ATTTTATGAAAACTCTTCTACTTTTCATCTATTCTTTCCCTAGAGGCAAACATTTCTTAAAATGTTTCATTTTCA
TTAAAATGAAAGCCAAATTTATATGCCACCGATTGCAGGACACAAGCACAGTTTTAAGAGTTGTATGAACATGG
AGAGGACTTTTGGTTTTTATATTTCTCGTATTTAATATGGGTGAACACCAACTTTTATTTGGAATAATAATTTTC
CTCCTAAACAAAAACACATTGAGTTTAAGTCTCTGACTCTTGCCTTTCCACCTGCTTTCTCCTGGGCCCCGCTTG
CCTGCTTGAAGGAACAGTGCTGTTCTGGAGCTGCTGTTCCAACAGACAGGGCCTAGCTTTTCATTTGACACACAGA
CTACAGCCAGAAGCCCATGGAGCAGGGATGTCACGCTTGAAAAGCCTATTAGATGTTTTACAAATTTAATTTTG
CAGATTATTTTAGTCTGTCATCCAGAAAATGTGTCAGCATGCATAGTGCTAAGAAAGCAAGCCAATTTGGAAACT
TAGGTTAGTGACAAAATTGGCCAGAGAGTGGGGTGATGATGACCAAGAATTACAAGTAGAATGGCAGCTGGAAT
TTAAGGAGGGACAAGAATCAATGGATAAGCGTGGGTGGAGGAAGATCCAAACAGAAAAGTGCAAAGTTATTCCCC
ATCTTCCAAGGGTTGAATTCTGGAGGAAGAAGACACATTCCTAGTTCCCCGTGAACCTTCCTTTGACTTATTGTCC
CCACTAAAACAAAAACAAAAAACTTTTAATGCCTTCCACATTAATTAGATTTTCTTGCAGTTTTTTTATGGCATT
TTTTAAAGATGCCCTAAGTGTTGAAGAAGAGTTTGCAATGCAACAAAAATATTTAATTACCGGTTGTTAAAAC
GGTTTAGCACAAATTTATATTTTCCCTCTCTTGCCTTTCTTATTTGCAATAAAAGGTATTGAGCCATTTTTTAAAT
GACATTTTGTATAAATTATGTTTGTACTAGTTGATGAAGGAGTTTTTTTTAACCTGTTTATATAATTTTGCAGCA
GAAGCCAAATTTTTTGTATATTAAAGCACCAAATTCATGTACAGCATGCATCACGGATCAATAGACTGTACTTAT
TTTCCAATAAAAATTTTCAAACCTTTGTACTGTTAAA

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FIGURE 1984

MKVLLRLICFIALLISSLEADKCKEREKIILVSSANEIDVRPCPLNPNEHKGTITWYKDDSKTPVSTEQASRIH
QHKEKLWFVPAKVEDSGHYCVVRNSSYCLRIKISAKFVENEPNLCYNAQAIFKQKLPVAGDGGLVCPYMEFFKN
ENNELPKLQWYKDCKPLLLDNIHFSGVKDRLIVMNVAEKHRGNYTCHASYTYLGKQYPITRVIEFITLEENKPTR
PVIIVSPANETMEVDLGSQIQLICNVITGQLSDIAYWKWNGSVIDEDDPVLGEDYYSVENPANKRRSTLITVLNISE
PFPYKHPFTCFKNTHTGIDAAYIQLIYPVTNFQKHMIGICVTLTVIIVCSVFIYKIFKIDIVLWYRDSCYDFL
ASDGKTYDAYILYPKTVGEGSTSDCDIFVFKVLPEVLEKQCGYKLFYGRDDYVGEDIVEVINENVKKSRL
VRETSGFSWLGSSEEQIAMYNALVQDGIKVVLLELEKIQDYKMPESIKFIKQKHGAIRWSGDFTQGPQS
AKTRFWKNVRYHMPVQRRSPSSKHQLLSPATKEKLQREAHVPLG

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FIGURE 1985

ATGCACTTTCTTTGCCAAAGGCAAACGCAGAACGTTTCAGAGCCATGAGGATGCTTCTGCATTTGAGTTTGCTAG
CTCTTGGAGCTGCCTACGTGTATGCCATCCCCACAGAAATCCCACAAGTGCATTGGTGAAAGAGACCTTGGCAC
TGCTTTCTACTCATCGAACTCTGCTGATAGCCAATGAGACTCTGAGGATTCCTGTTCTGTACATAAAAAATCACC
AACTGTGCACTGAAGAAATCTTTCAGGGAATAGGCACACTGGAGAGTCAAACCTGTGCAAGGGGGTACTGTGGAAA
GACTATTCAAAAACCTGTCCTTAATAAAGAAATACATTGACGGCCAAAAAAAAAAGTGTGGAGAAGAAAGACGGA
GAGTAAACCAATTCCTAGACTACCTGCAAGAGTTTCTTGGTGTAATGAACACCGAGTGGATAATAGAAAGTTGAG
ACTAAACTGGTTTGTTCAGCCAAAGATTTTGGAGGAGAAGGACATTTTACTGCAGTGAGAATGAGGGCCAAGAA
AGAGTCAGGCCTTAATTTTCAATATAATTTAACTTCAGAGGGAAGTAAATATTTTCAGGCATACTGACACTTTGC
CAGAAAGCATAAAATTCCTAAATATATTTTCAGATATCAGAATCATTGAAGTATTTTCTCCAGGCAAAATTGAT
ATACTTTTTTCTTATTTAACTTAACATTCTGTAAAATGTCTGTAACTTAATAGTATTTATGAAATGGTTAAGAA
TTTGGTAAATTAGTATTTATTTAATGTTATGTTGTGTTCTAATAAAACAAAAATAGACAACCTGTTT

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FIGURE 1986

MRMLLHLSLLALGAAYVYAIPTEIPTSA
LVKETLALLSTHRTLLIANETLRIPVPVHKNHQLCTEEIFQGIGTLE
SQTVQGGTVERLFKNLSLIKKYIDGQKKKCGEERRRVNQFLDYLQEF LGVMNTEWIIES

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FIGURE 1987

GTAATGCAGAGATAATAAACTTCTTAGGTCCATAGGTCTTATAATAATTTAATAACCTAAACATGGTATACAAA
TTCTCCAAACCCAATAACATAATTATAGTTTCAAAAAGTTCCCAAACCTTTCAAGTTAGATTTTATTGCTTTGA
TGAGTGGCTTTAAATATGAAAAGTCTTGCTGTGAAGGGCAATCCTTTTCCCGTGGACTGGGATCTATAGAAATA
CAGAAATGTGCCAGGGGTTTCATCTCCCTAATAACCATCATTACATTTCTCAACCTCCCTAATAACCAGCCACC
ATGTGAGAAGGATCCACAGTTACTGTTTATGACTATAATTAAGTAGTACCTGGGACTGGTCAGTGGAGTTGGTTG
CAACCTGATGCTAAGGATGTCAAAGTTGTCTCGGCCTCTGTTCCAGCCAGTAAGTAATTCCTGGCCTCGGGCC
ATACCCCTAATCTTGGTCAGCTGATTATGACAGGCAGACAGCACAGTAAATAACACTATATATTAAGAAAACCC
AAAGCATATGTATCAATGGTATATACCCAACAGCATCCTAGGAATGGAGAGTCTGTAGCAAGGGCCTCCAATGTG
AAGGTCAACACAGTCACTGTGATGCGTGTATTTCCATTTTGTAAGCATGATCTCTGGTGGTCATTTTTATCTTC
CTAACTTATTGGAAAAGTCTCCTGTTTTGGGGGCCCCGCCCTGGTCACAGCCAGACTGACTCAGTTTCCCTGGGA
GGTCCCGCTCGAGCCCGTCTTCCCTCCCTCTGCCCGCCCCAGCCCTCGCCCCACCCTCGCGCCCCGCACATC
TGCCTGCTCAGCTCCAGACGGCGCCCGGACCCCCGGGCGCGGGATCCAGCCAGGTGGGAGCCCCGCAGATGAGGT
CTCTGAAGGTGTGCTGAACAGTGCCAGCCTGCCCTGTCTGCAGCATCGGCCTGATGGGGTGGTGACTGATCCC
TCAGGGCTCCGGAGCCATGTGGCCCAACGGCAGTTCCCTGGGGCCCTGTTTCCGGCCCACAAACATTACCCTGGA
GGAGAGACGGCTGATCGCCTCGCCCTGGTTTCGCCGCTCCTTCTGCGTGGTGGGCCTGGCCTCCAACCTGCTGGC
CCTGAGCGTGCTGGCGGGCGCGCGGCAGGGGGGTTTCGCACACGCGCTCCTCCTTCTCACCTTCTCTGCGGCC
CGTCTCACCGACTTCTTGGGGCTGCTGGTGACCGGTACCATCGTGGTGTCCCAGCACGCCGCGCTCTTCGAGTG
GCACGCCGTGGACCCTGGCTGCCGTCTCTGTGCTTCATGGGCGTCTCATGATCTTCTTCGGCCTGTCCCCGCT
GCTGCTGGGGGCGGCCATGGCCTCAGAGCGCTACCTGGGTATCACCCGGCCCTTCTCGCGCCCCGGCGGTGCGCTC
GCAGCGCCGCGCCTGGGCCACCGTGGGGCTGGTGTGGGCGGCCGCGTGGCGCTGGGCCTGCTGCCCTGCTGGG
CGTGGGTGCTACACCGTGCAATACCCGGGGTCTTGGTGCTTCTGACGCTGGGCGCCGAGTCCGGGGACGTGGC
CTTCGGGCTGCTCTTCTCCATGCTGGGCGGCCCTCTCGGTGGGCTGTCTTCTGCTGAACACGGTCAGCGTGGC
CACCTGTGCCACGTCTACACGGGCAGGAGGCGGCCAGCAGCGTCCCCGGGACTCCGAGGTGGAGATGATGGC
TCAGCTCCTGGGGATCATGGTGGTGGCCAGCGTGTGTTGGCTGCCCTTCTGGTCTTCAATTGCCAGACAGTGCT
GCGAAACCCGCTGCCATGAGCCCCGCCGGGCAGCTGTCCCGCACCACGGAGAAGGAGCTGCTCATCTACTTGCG
CGTGGCCACCTGGAACAGATCCTGGACCCCTGGGTGTATATCTGTTCCGCCGCGCCGTGCTCCGGCGTCTCCA
GCCTCGCCTCAGCACCCGGCCAGGTGCTGTCCCTCCAGCCCCAGCTCACGCAGCGCTCCGGGCTGCAGTAGGA
AGTGGACAGAGCGCCCCCTCCCGCGCCTTTCCGCGGAGCCCTTGGCCCCCTCGGACAGCCCATCTGCCTGTTCTGAG
GATTACAGGGGCTGGGGGTGCTGGATGGACAGTGGGCATCAGCAGCAGGGTTTTGGGTGACCCCAATCCAACCCG
GGGACCCCCAACTCTCCCTGATCCTTTTACCAAGCACTCTCCCTTCTCGGCCCTTTTTCCTATCCAGAGCTC
CCACCCCTTCTCTGCGTCCCTCCCAACCCAGGAAGGGCATGCAGACATTGGAAGAGGGTCTTGCAATTGCTATTT
TTTTTTTTTAGACGGAGTCTTGCTCTGTCCCCAGGCTGGAGTGCAGTGGCGCAATCTCAGCTCACTGCAACCTCC
ACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTATAGGCGCGCGCCACCACGCCC
GGCTAATTTTTGTATTTTTAGTAGAGACGGGGTTTACCGTGTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAG
GTGATTACACGCTCAGCCTCCCAAAGTGCTGGGATCACAGGCATGAACCACCACACCTGGCCATTTTTTTTTT
TTTTTTAGACGGAGTCTCACTCTGTGGCCAGCCTGGAGTACAGTGGCACGATCTCGGCTCACTGCAACCTCCGC
CTCCCGGGTTCAAGCGATTCTCGTGCCTCAGCCTCCCGAGCAGCTGGGATTACAGGCGTAAGCCACTGCGCCCGG
CCTTGCA TGCTCTTTGACCCTGAATTTGACCTACTTGCTGGGGTACAGTTGCTTCTTTTGAACCTCCAACAGGG
AAGGCTCTGTCCAGAAAGGATTGAATGTGAAACGGGGGCACCCCTTTTCTTGCCAAAATATATCTCTGCCTTTG
GTTTTAT

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FIGURE 1988

MWPNGSSLGPCFRPTNITLEERRLIASPWFAASFVVGGLASNLLALSVLAGARQGGSHTRSSFLTFLCGLVLTDF
LGLLVTGTIVVSQHAALFEWHAVDPGCRLCRFMGVVMIFFGLSPLLLGAAMASERYLGITRPFSSRP AVASQRRW
ATVGLVWAAALALGLLPLLGVGRYTVQYPGSWCFLTILGAESGDVAFGLLF SMLGGLSVGLSFLNNTVSVATLCHV
YHGQEAQQRPRDSEVEMMAQLLGIMVVASVCWLPLLVEIAQTVLRNPPAMSPAGQLSRTEKELLIYLRVATWN
QILDPWVYILFRRAVLRRLQPRLSTRPRSLSLQPQLTQRSGLO

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FIGURE 1989

AAGACTCAAACCTTAGAACTTGAATTAGATGTGGTATTCAAATCCTTACGTGCCGCGAAGACACAGACAGCCCC
GTAAGAACCACGAAGCAGGCGAAGTTTATTGTTCTCAACATTCTAGCTGCTCTTGCTGCATTTGCTCTGGAATT
CTTGTAGAGATATTACTTGTCTTCCAGGCTGTTCTTTCTGTAGCTCCCTTGTTTTCTTTTGTGATCATGTTGC
AGATGGCTGGGCAGTGTCTCCCAAATGAATATTTTGACAGTTTGTTCATGCTTGCATACCTTGTCAACTTCGAT
GTTCTTCTAATACTCCTCCTCTAACATGTCAGCGTTATTGTAATGCAAGTGTGACCAATTCAGTGAAAGGAACGA
ATGCGATTCTCTGGACCTGTTTGGGACTGAGCTTAATAATTTCTTTGGCAGTTTTTCGTGCTAATGTTTTTGCTAA
GGAAGATAAGCTCTGAACCATTAAAGGACGAGTTTAAAAACACAGGATCAGGTCTCCTGGGCATGGCTAACATTG
ACCTGGAAAAGAGCAGGACTGGTGATGAAATTATTCTTCCGAGAGGCCTCGAGTACACGGTGGAAGAATGCACCT
GTGAAGACTGCATCAAGAGCAAACCGAAGGTCGACTCTGACCATTGCTTTCCACTCCCAGCTATGGAGGAAGGCG
CAACCATTCTTGTCACCACGAAAACGAATGACTATTGCAAGAGCCTGCCAGCTGCTTTGAGTGCTACGGAGATAG
AGAAATCAATTTCTGCTAGGTAAATTAACCATTTCGACTCGAGCAGTGCCACTTTAAAAATCTTTTGTGAGAATAG
ATGATGTGTCAGATCTCTTTAGGATGACTGTATTTTTCAGTTGCCGATACAGCTTTTGTCTCTAACTGTGGAA
ACTCTTTATGTTAGATATATTTCTCTAGGTTACTGTTGGGAGCTTAATGGTAGAACTTCCTTGGTTTCATGATT
AAAGTCTTTTTTTTCTCTGA

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FIGURE 1990

MLQMAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCLGLSLIISLAVFVLMF
I.LRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTGDEIILPRGLEYTVEECTCEDCIKSKPKVDSDFCFPLPAME
EGATILVTTKTNDYCKSLPAALSATEIEKSISAR

CGCGTCCTCCTCGCCGCGCTGGGACTGCTGTTCTTGGGGGCGCTACGAGCCTTCCCAACAGGATCGACACCTTCGAG
GACACCTGTGCATGGAAACCCAGCCTACTATGACAAGGCTGTACGAGAGGTGCTGTTACCGCTGCCCATGGGG
CTGTTCCCGACACAGCAGTGCCACAGAGGCCTACTGACTGCAGGAAGCAGTGTGAGCCTGACTACTACCTGGAT
GAGGCCGACCGCTGTACAGCCTGCGTGACTTGTTCTCGAGATGACCTCGTGAGAGAAGACGCCGTGTGCATGGAAC
TCCTCCCGTGTCTGCGAATGTGACCCGGCATGTTCTGTTCCACGTCTGCCGTCAACTCCTGTGCCCCGCTGCTTC
TTCCATTCTGCTGTCCGGCAGGGATGATTGTCAAGTTCCCAGGCACGGCGCAGAAGAACACGGTCTGTGAGCCG
GCTTCCCCAGGGGTACGCCCTGCCTGTGCCAGCCCAGAGAACTGCAAGGAACCTCCAGTGGCACCATCCCCCAG
GCCAAGCCCACCCCGGTGTCCCAGCAACCTCCAGTGCCAGCACCATGCCTGTAAGAGGGGGCACCCGCTCGCC
CAGGAAGCTGCTTCTAAACTGACGAGGGCTCCCGACTCTCCCTCCTCTGTGGGAAGGCCTAGTTTACAGATCCAGGT
CTGTCCCCAACACAGCCATGCCCAGAGGGGTCTGGTGATTGCAGAAAGCAGTGTGAGCCCCGACTACTACCTGGAC
GAGGCCGGCCGCTGCACAGCCTGCGTGAGCTGTTCTCGAGATGACCTTGTGGAGAAGACGCCATGTGCATGGAAC
TCCTCCCGCACCTGCGAATGTGACCTGGCATGATCTGTGCCACATCAGCCACCAACTCCTGTGCCCGCTGTGTC
CCCTACCCAATCTGTGCAGCAGAGACGGTCACCAAGCCCCAGGATATGGCTGAGAAGGACACCACCTTTGAGGCG
CCACCCCTGGGGACCCAGCCGGACTGCAACCCACCCAGAGAATGGCGAGGCGCTGCCAGCACCAGCCCCACT
CAGAGCTTGCTGGTGGAATCCCAGGCCAGTAAGACGCTGCCCATCCCAACCAGCGCTCCCGTCGCTCTCTCCTCC
ACGGGGAAGCCCGTTCTGGATGCAGGGCCAGTGCTCTTCTGGGTGATCCTGGTGTGTTGTTGTGGTGGTGGCTCC
AGCGCCTTCTCTGTGCCACCGGAGGGCCTGCAGGAAGCGAATTCGGCAGAAGCTCCACCTGTGCTACCCGGTC
CAGACCTCCCAGCCCCAAGCTAGAGCTTGTGGATTCCAGACCCAGGAGGAGCTCAACGCAGCTGAGGAGTGGTGCG
TCGGTGACAGAAACCCGTCGCGGAAGAGCGAGGGTTAATGAGCCAGCCACTGATGGAGACCTGCCACAGCGTGGGG
GCAGCCTACCTGGAGAGCCTGCCGCTGCAGGATGCCAGCCCGGCCGGGGCCCCCTCGTCCCCCAGGGACCTTCT
GAGCCCCGGGTGTCCACGGAGCACACCAATAACAAGATTGAGAAAATCTACATCATGAAGGCTGACACCGTGATC
GTGGGACCGTGAAAGCTGAGCTGCCGGAGGGCCGGGGCTTGGCGGGGCCAGCAGAGCCCGAGTTGGAGGAGGAG
CTGGAGGCGGACCATACCCCCACTACCCCGAGCAGGAGACAGAACCGCCCTCTGGGCAGCTGCAGCGATGTGATG
CTCTCAGTGGAAGAGGAAGGGAAAGAAGACCCCTTGCCACAGCTGCCTCTGGAAGTGAGGCCTGGGCTGGGCT
GGGGCTAGGAGGGCAGCAGGGTGGCCTCTGGGAGGCCAGGATGGCACTGTTGGCACCGAGGTTGGGGGCAGAGGC
CCATCTGGCCTGAAC TGAGGCTCCAGCATCTAGTGGTGGACCGGCCGGTCACTGCAGGGGTCTGGTGGTCTCTGC
TTGCATCCCCA ACTTAGCTGTCCCCTGACCCAGAGCCTAGGGGATCCGGGGCTTGTACAGAAGAGACAGTCCAAG
GGGACTGGATCCCAGCAGTGATGTTGGTTGAGGCAGCAAACAGATGGCAGGATGGGCAGTGGCGAGAACAGCATT
GGTCCCAGAGCCCTGGGCATCAGACCTTAACCACCAGGCCCACAGCCCAGCGAGGGAGAGGTCTGTGAGGCCAGCT
CCCGGGGCCCTGTAAACCCTACTCTCCTCTCTCCCTGGACCTCAGAGGTGACACCCATTGGGGCCCTTCCGGCATG
CCCCAGTTACTGTAAATGTGGCCCCAGTGGGCATGGAGCCAGTGCCTGTGGTTGTTTCTCCAGAGTCAAAAGG
GAAGTCGAGGGATGGGGCGTCTGCTCAGCTGGCACTGTCTCTGCTGCAGCGGCCACACTGTACTCTGCACTGGTGTG
AGGGCCCCCTGCCTGGACTGTGGGACCCTCCTGGTGCTGCCACCTTCCCTGTCTGTAGCCCCCTCGGTGGGGCC
AGGGCCTAGGGGGCCAGGATCAAGTCACTCATCTCAGAATGTCCCCACCAATCCCCGCCACAGCAGGCGCCTCGG
GTCCAGATGTCTGCAGCCCTCAGCAGCTGCAGACCGCCCCCTACCAACCCAGAGAACCTGCTTTACTTTGCCCCA
GGGACTTCTCTCCCATGTGAACATGGGGAACCTTCGGGCCCTGCCTGGAGTCCTTGACCGCTCTCTGTGGGGCCCCA
CCCCTCTGTCTCTGGGAAATGAAGAAGCATCTTCCTTAGGTCTGCCCTGCTTGCAAATCCACTAGCACCGACCCC
ACCACCTGGTTCCGGCTCTGCACGCTTTGGGGTGTGGATGTGAGAGGCCACCACGGCCTCACCCAGGCATCTGCT
TTACTCTGGACCATAGGAAACAAGACCGTTTGAGAGTTTCATCAGGATTTTGGGTTTTTACATTTACAGCTAAG
GAGTAGTGGCCCTGACTTCCGGTGGCTGGCCAGCTGACTCCCTAGGGCCTTCAGACGTGTATGCAAAATGAGTGA
TGGATAAGGATGAGTCTTGAGTGTGCGGGCAGCCTGGAGACTCGTGGAATTACCGCTGGAGGCAGGCCCCGGGAA
GGCTGCTGTTTACTCATCGGGCAGCCACGTGCTCTCTGGAGGAAGTGATAGTTTCTGAAACCGCTCAGATGTTTT
GGGGAAAGTTGGAGAAGCCGTGGCCTTGCGAGAGGTGGTTACACCAGAACCTGGACATTGGCCAGAAGAAGCTTA
AGTGGGCAGACACTGTTTGCCAGTGTTTGTGCAAGGATGGAGTGGGTGTCTCTGCATACCCACAGCCGCAGCT
GTAAGGCACGCTGGAAGGCACACGCTGCCAGGCAGGGCAGTCTGGCGCCCATGATGGGAGGGATTGACATGTTT

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FIGURE 1991B

CAACAAAATAATGCACTTCCTTAAAAAAAAA

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FIGURE 1992

MRVLLAALGLLFLGALRAFFQDRPFEDTCHGNPSHYDYDKAVRRCCYRCMPGLFPTQQCPQRPTDCRKQCEPDYYL
DEADRCTACVTCSRDDLVEKTPCAWNSSRVCECRPGMFCSTSAVNSCARCFHVSVPAGMIVKFPGTAQKNTVCE
PASPGVSPACASPENCKEPSSGTIPQAKPTPVSPATSSASTMPVRGGTRLAQEAASKLTRAPDSPSSVGRPSSDP
GLSPTQPCPEGSGDCRKQCEPDYYLDEAGRCTACVSCSRDDLVEKTPCAWNSSRTCECRPGMICATSATNSCARC
VPYPICAAETVTKPQDMAEKDITFEAPPLGTQPDNPTPENGEAPASTSPTQSLLVDSQASKTLPIPTSAPVALS
STGKPVLDAGPVLFWVILVLVVVGSSAFLLCHRRACRKRIQKLHLICYPVQTSQPKLELVDSRPRRSSTQLRSG
ASVTEPVAEERGLMSQPLMETCHSVGAAYLESPLQDASPAGGPSSPRDLPEPRVSTEHTNNKIEKIYIMKADTV
IVGTVKAELPEGRGLAGPAEPELEEELEADHTPHYPEQETEPPLGSCSDVMLSVEEEGKEDPLPTAASGK

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FIGURE 1993

ATGGCACTGACTGCCCACCCCTCCTGCCTCCTGGCCCTGTTGGTGGCAGGCCTAGCCCAAGGCATCAGAGGCCCC
CTTAGGGCCCAGGACCTAGGTCCCCAGCCGCTAGAGCTGAAAGAGGCCTTCAAGTTGTTCCAGATCCAGTTCAAC
CGGAGTTACCTGAGCCCAGAAGAGCATGCTCACCGCCTGGACATCTTTGCCACAACCTGGCCCAGGCTCAGAGG
CTGCAGGAGGAGGACTTGGGCACAGCTGAGTTTGGGGTGA CTCCATT CAGTGACCTCACAGAGGAGGAGTTTGGC
CAGCTCTATGGCTATCGGAGGGCAGCTGGAGGGGTCCCCAGCATGGGCAGAGAAATAAGGTCTGAAGAGCCAGAG
GAGTCAGTACCTTTCAGCTGTGACTGGCGGAAGGTGGCCGGCGCCATCTCACCCATCAAGGACCAGAAAACTGC
AACTGCTGCTGGGCCATGGCAGCGGCAGGCAACATAGAGACCTGTGGCGCATCAGTTTCTGGGATTTTGTGGAC
GTCTCCGTGCATGAACTGCTGGACTGTGGCCGCTGTGGGGATGGCTGCCACGGTGGCTTCGTCTGGGACGCGTTC
ATAACTGTCTCAACAACAGCGGCCTGGCCAGTGAAGGACTACCCGTTCCAGGGCAAAGTCAGAGCCCACAGG
TGCCACCCCAAGAAGTACCAGAAGGTGGCCTGGATCCAGGACTTCATCATGCTGCAGAACAACGAGCACAGAATT
GCGCAGTACCTGGCCACTTATGGCCCCATCACCGTGACCATCAACATGAAGCCCCTTCAGCTATAACGGAAAGGT
GTGATCAAGGCCACACCCACCACCTGTGACCCCCAGCTTGTGGACCACTCTGTCCTGCTGGTGGGTTTTGGCAGC
GTCAAGTCAGAGGAGGGGATATGGGCAGAGACAGTCTCATCGCAGTCTCAGCCTCAGCCTCCACACCCACCCCA
TACTGGATCCTGAAGAACTCCTGGGGGGCCCAATGGGGAGAGAAGGGCTATTTCCGGCTGCACCGAGGGAGCAAT
ACCTGTGGCATCACCAAGTTCCCGCTCACTGCCCCGTGTGCAGAAACCGGATATGAAGCCCCGAGTCTCCTGCCCT
CCCTGA

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FIGURE 1994

MALTAHPSCLLALLVAGLAQGIRGPLRAQDLGPQPLELKEAFKLFQIQFNRSYLSPEEHAHRLDIFAHNLAQAQR
LQEEDLGTAIEFGVTPFSDLTEEEFGQLYGYRRAAGGVPSMGREIRSEEPESVFFSCDWRKVAGAI SPIKDQKNC
NCCWAMAAAGNIETLWRISFWDFVDVSVHELDCGRCDGCHGGFVWDAFITVLNNSGLASEKDYPFQGVRAHR
CHPKKYQKVAWIQDFIMLQNNEHRIAQYLATYGPITVTINMKPLQLYRKGVIKATPTTCDPQLVDHSVLLVGFGS
VKSEEGIWAETVSSQSQPQPPHPTPYWILKNSWGAQWGEKGYFRLHRGSNTCGITKFPLTARVQKPDMPRVSCP
P

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FIGURE 1995

ACTCGTCTCTGGTAAAGTCTGAGCAGGACAGGGTGGCTGACTGGCAGATCCAGAGGTTCCCTTGGCAGTCCACGC
CAGGCCCTTCACCATGGATCAGTTCCTGAATCAGTGACAGAAAACCTTTGAGTACGATGATTTGGCTGAGGCCTGT
TATATTGGGGACATCGTGGTCTTTGGGACTGTGTTCTGTCCATATTCTACTCCGTCATCTTTGCCATTGGCCTG
GTGGGAAATTTGTTGGTAGTGTGTTGCCCTCACCAACAGCAAGAAGCCCAAGAGTGTCCCGACATTTACCTCCTG
TCTGGCCTTGTCTGATCTGCTGTTTGTAGCCACTTTGCCCTTCTGGACTCACTATTTGATAAATGAAAAGGGC
TACAATGCCATGTGCAATTCACCTACCGCCTTCTTCTTCATCGGCTTTTTTGGGAAGCATATTCTTCATCACC
TATCAGCATTGATAGGTACCTGGCCATCGTCCTGGCCGCCAACTCCATGAACAACCGGACCGTGCAGCATGGC
GTCAACATCAGCCTAGGCGTCTGGGCAGCAGCCATTTTGGTGGCAGCACCCAGTTCATGTTTCAAAAGCAGAAA
TAAATGAATGCCTTGGTGAATAACCCGAGGTCTCCAGGAAATCTGGCCCGTGTCTCCGAATGTGGAAACAAAT
TCTTGGCTTCTACTCCCCCTGCTCATTATGAGTTATTGCTACTTCAGAATCATCCAGACGCTGTTTTCTCTGC
TAAACCACAAGAAAGCCAAAGCCATTAAACTGATCCTTCTGGTGGTTCATCGTGTGTTTTCTCTTCTGGACACCC
TAACGTTATGATTTTTCTGGAGACGCTTAAGCTCTATGACTTCTTTCCAGTTGTGACATGAGGAAGGATCTG
TCTGGCCCTCAGTGTGACTGAGACGGTTCATTTAGCCATTGTTGCCCTGAATCCTCTCATCTATGCATTTGCT
GGGAGAAGTTCAGAAGATACCTTTACCACCTGTATGGGAAATGCCTGGCTGTCTGTGTGGGCGCTCAGTCCAC
GTTGATTTCTCCTCATCTGAATCACAAAGGAGCAGGCATGGAAGTGTCTGAGCAGCAATTTTACTTACCACAG
AGTGATGGAGATGCATTGCTCCTTCTCTGAAGGGAATCCCAAAGCCTTGTGTCTACAGAGAACCTGGAGTTCCTG
AACCTGATGCTGACTAGTGAGGAAAGATTTTTGTTGTTATTTCTTACAGGCACAAAATGATGGACCCAATGCACA
CAAAACAACCTAGAGTGTTGTTGAGAATTGTGCTCAAAATTTGAAGAATGAACAAATTGAACCTCTTTGAATGAC
AAAGAGTAGACATTTCTCTTACTGCAAATGTATCAGAACTTTTTGGTTTGCAGATGACAAAAATCAACTCAGA
CTAGTTTAGTTAAATGAGGGTGGTGAATATTGTTTATTTGTGGCACAAGCAAAAGGGTGTCTGAGCCCTCAAAG
TGAGGGGAAACCAGGGCCTGAGCCAAGCTAGAATTCCCTCTCTCTGACTCTCAAATCTTTTAGTCATTATAGATC
CCCCAGACTTTACATGACACAGCTTTATCACCAGAGAGGGACTGACACCCATGTTTCTCTGGCCCCAAGGGAAAA
TTCCCAGGGAAGTGCTCTGATAGGCCAAGTTTGTATCAGGTGCCCATCCCTGGAAGGTGCTGTTATCCATGGGGA
AGGGATATATAAGATGGAAGCTTCCAGTCCAATCTCATGGAGAAGCAGAAATACATATTTCCAAGAAGTTGGATG
GGTGGGTACTATTCTGATTACACAAAACAAATGCCACACATCACCTTACCATGTGCCTGATCCAGCCTCTCCCC
TGATTACACCAGCCTCGTCTTCATTAAGCCCTCTTCCATCATGTCCCCAAACCTGCAAGGGCTCCCCACTGCCTA
CTGCATCGAGTCAAACTCAAATGCTTGGCTTCTCATACGTCCACCATGGGGTCTACCAATAGATTTCCCATTTG
CCTCCTCCTTCCCAAAGGACTCCACCCATCCTATCAGCCTGTCTCTTCCATATGACCTCATGCATCTCCACCTGC
TCCCAGGCCAGTAAGGGAAATAGAAAACCCCTGCCCCCAAATAAGAAGGGATGGATTCCAACCCCAACTCCAGTA
GCTTGGGACAAATCAAGCTTCAGTTTCTGCTGTGTAGAAGAGGGATAAGGTACCTTTACATAGAGATCATCCT
TTCCAGCATGAGGAAGTAGCCACCAACTCTTGAGGTCTCAACCCCTTTTGTCTGCCTCTTAGACTTCTGCTTTCC
ACACCTGCACTGCTGTGCTGTGCCCAAGTTGTGGTGTGACAAAGCTTGGGAAGAGCCTGCAGGTGCCTTGGCCGC
GTGCATAGCCCAGACACAGAAGAGGCTGGTTCTTACGATGGCACCCAGTGAGCACTCCCAAGTCTACAGAGTGAT
AGCCTTCCGTAACCCAACTCTCCTGGACTGCCTTGAATATCCCTCCCAGTCACCTTGTGCAAGCCCCCTGCCCAT
CTGGGAAATACCCCATCATTATGCTACTGCCAACCTGGGGAGCCAGGGCTATGGGAGCAGCTTTTTTTTTCCCC
CCTAGAAACGTTTGGAAACAATGTAAAACCTTAAAGCTCGAAAACAATTGTAATAATGCTAAAGAAAAAGTCATCC
AATCTAACCATCAATATTGTCATTCTGTATTACCCGTCCAGACCTTGTTCACACTCTCATATGTTTAGAGT
TGCAATCGTAATGTACAGATGGTTTTATAATCTGATTTGTTTTCTCTTAACGTTAGACCACAAATAGTGCTCGC
TTTCTATGTAGTTTGGTAATTATCATTTTGAAGACTCTACCAGACTGTGTATTTCATTGAAGTCAGATGTGGTAA
CTGTTAAATTGCTGTGTATCTGATAGCTCTTTGGCAGTCTATATGTTTGTATAATGAATGAGAGAATAAGTCATG
TTCCTTCAAGATCATGTACCCCAATTTACTTGCCATTACTCAATTGATAAACATTTAACTTGTTTCCAATGTTTA
GCAATACATATTTTATAGAACTTC

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FIGURE 1996

MDQFPESVTENFEYDDLAEACYIGDIVVFGTVFLSIFYSVIFAIGLVGNLLVVFALTNSKKPKSVTDIYLLNLAL
SDLLFVATLPFWTHYLINEKGLHNAMCKFTTAAFFFIGFFGSIFFITVISIDRYLAIVLAANSMMNNRTVQHGVTS
LGVWAAAILVAAPQFMFTKQKENECLGDYPEVLQEIWPVLRNVETNFLGFLPLLIMSYCYFRIIQTLSCKNHK
KAKAIKLILLVVIVFFLFWTPYNMIFLETCLKLYDFFPSCDMRKDLRLALSVTETVAFSHCCLNPLIYAFAGEKF
RRYLYHLYGKCLAVLCGRSVHVDFFSSSESQSRHGSVLSSNFTYHTSDGDALLL

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FIGURE 1997

GC GGAAGGAACCGCCGGGGGCCATGGACGGAGCAGTGATGGAAGGGCCGCTTTTTTGCAGAGTCAGCGCTTTGG
GACCAAGAGGTGGAGGAAGACCTGGGCGGTGCTCTACCCGGCCAGTCCCCACGGCGTAGCGCGGCTCGAGTTCTT
TGACCATAAGGGGTCGAGCTCTGGGGGTGGCCGAGGGAGCTCGCGCCGCTGGACTGCAAAGTGATCCGTCTGGC
TGAGTGTGTGAGTGTGGCCCCGTACCGTGGAGACCCCCCTGAGCCCGGCGCCACTGCCTTCCGCCTGGACAC
TGCTCAGCGCTCGCACCTGCTGGCGGCCGACGCGCCGTCCAGTGCAGCCTGGGTGCAGACGCTGTGCCGAAACGC
CTTTCCGAAAGGCAGCTGGACTCTGGCGCCTACCGATAACCCACCTAAGCTTTCTGCCCTGGAGATGCTGGAGAA
CTCCTTGACAGCCCTACCTGGGAAGGATCCCAATTCTGGGTAAACGGTGCAGAGGACTGAGGCCGCCGAGCGCTG
TGGCCTGCATGGCTCCTACGTGCTGAGGGTGGAGGCTGAAAGGCTGACTCTCCTGACCGTGGGGGCCAGAGTCA
GATACTGGAGCCACTCCTGTCCTGGCCCTACACTCTGTTGCGTCGCTATGGCCGGGACAAGGTATGTTCTCTTT
CGAGGCCGCCGCCGCTGCCCTCAGGCCCTGGAACCTTCACCTTCCAGACGGCACAGGGAAATGACATCTTCCA
GGCAGTTGAGACTGCCATCCACCGGCAGAAGGCCAGGGAAAGGCCGACAGGGGCACGATGTTCTCAGAGCTGA
CTCCCATGAAGGGGAGGTGGCAGAGGGGAAGTTGCCTTCCCCACCTGGCCCCCAAGAGCTCCTCGACAGTCCCCC
AGCCCTGTATGCTGAGCCCTTAGACTCCCTGCGCATTGCTCCATGCCCTTCCAGGACTCCCTATACTCAGACCC
CTTGGACAGCACGTCTGCTCAGGCAGGAGAGGGAGTACAACGGAAGAAACCTCTCTATTGGGACTTGTATGAGCA
TGCGCAGCAGCAGTTGCTGAAGGCCAAGCTGACAGACCCCAAAGAGGATCCCATCTATGATGAACCTGAGGGCCT
GGCCCCAGTCCCTCCCCAGGGCCTTTATGATCTGCCTCGGGAGCCCAAGGATGCATGGTGGTGCCAAGCTCGGGT
GAAGGAGGAGGGCTATGAGCTCCCTACAACCTGCCACTGATGACTACGCTGTGCCACCCCTCGGAGCACAAA
GCCCTCCTTGCTCCCAAGCCCCAGGGCCAGCCTTCCCTGAACCTGGTACTGCAACTGGCAGTGGCATCAAAAG
CCACAACCTCAGCCCTGTACAGCCAGGTCCAGAAGAGCGGGGCCTCAGGGAGCTGGGACTGTGGGCTCTCTAGAGT
AGGGACTGACAAGACTGGGGTCAAGTCAGAGGGCTCTACCTTGAGAAGGACGGCAAGGCTGAGGTGGCTAAGGGGG
ACCATGGGGAGGTGGCACTAGGGATCAAAGAAGATGGTTAGAACCAGCAGAAGCCAGAGGGTGGGAGGGGCCATG
CTGTGTGAGACCAGGGGACCAGAGGGATGGGAGAGTCAAGGGAAGGACAATCCCAGGAAGTCCTAAGAAGTGGGG
CAGATGGCAGGGCTGAGGATGGGCTCTGCATCCCCCAAAGCCATCCCTTCCCTACTTCCCCAAATGAAGGGACGG
CTGTGGGACCAGGTCTGTGAAAGTGGTGCATGGTCAGAATGGGTGCAGTTTGAGGGGCCTGTGTGGAGGCCTCA
GGGAGATGTTGGACTGTGCCTGGATCCTTACTCCTGCATTGTTCTTTGCCAGAGACCTATTTAAAAATTTAAAA
TTCTCATTAAAGTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1998

MDGAVMEGPLFLQSQRFGTKRWRKTWAVLYPASPHGVARLEFFDHKGSSSSGGGRGSSRRLDCKVIRLAECVSVAP
VTVETPPEPGATAFRLDTAQRSHLLAADAPSSAAWVQTLCRNAFPKGSWTLAPT DNPPKLSALEMLENSLYSPTW
EGSQFWVTVQRTAAERCGLHGSYVLRVEAERLTLLTVGAQSQILEPLLSWPYTLRLRYGRDKVMFSFEAGRRC
SGPGTFTFQTAQGNDIFQAVETAHRQKAQGKAGQGHDLRADSHGEVAEGKLPSPPGQELLDSPPALYAEPL
DSLRIAPCPSQDSLYSDPLDSTSAQAGEGVQRKKPLYWDLYEHAQQQLLKAKLTDPKEDFIYDEPEGLAPVPPQG
LYDLPREPKDAWWCQARVKEEGYELPYNPATDDYAVPPPRSTKPLLAPKPQGPAPPEPGTATGSGIKSHNSALYS
QVQKSGASGSWDCGLSRVGTDKTGKSEGST

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FIGURE 1999

GCCGCTGCCACCGCACCCCGCCATGGAGCGGCCGTGCTGCGCGCCCTGCTCCTCGGCGCCGCTGGGCTGCTGCT
CCTGCTCCTGCCCCCTCTCCTCTTCCTCCTTTCGGACACCTGCGGCCCTGCGAGCCGGCCTCCTGCCCCCCCCCT
GCCCCCGCTGGGCTGCCTGCTGGGCGAGACCCGCGACGCGTGCGGCTGCTGCCCTATGTGCGCCCGCGGCGAGGG
CGAGCCGTGCGGGGGTGGCGGCGCCGGCAGGGGGTACTGCGCGCCGGGCATGGAGTGCGTGAAGAGCCGCAAGAG
GCGGAAGGGTAAAGCCGGGGCAGCAGCCGGCGGTCCGGGTGTAAGCGGCGTGTGCGTGTGCAAGAGCCGCTACCC
GGTGTGCGGCAGCGACGGCACCACTACCCGAGCGGCTGCCAGCTGCGCGCCGCCAGCCAGAGGGCCGAGAGCCG
CGGGGAGAAGGCCATCACCCAGGTCAGCAAGGGCACCTGCGAGCAAGGTCCTTCCATAGTGACGCCCCCAAGGA
CATCTGGAATGTCACTGGTGCCAGGTGTACTTGAGCTGTGAGGTCATCGGAATCCCGACACCTGTCTCATCTG
GAACAAGGTAAAAAGGGGTCACTATGGAGTTCAAAGGACAGAACTCCTGCCTGGTGACCGGGACAACCTGGCCAT
TCAGACCCGGGGTGGCCCAGAAAAGCATGAAGTAACTGGCTGGGTGCTGGTATCTCCTCTAAGTAAGGAAGATGC
TGGAGAATATGAGTGCCATGCATCCAATTCCCAAGGACAGGCTTCAGCATCAGCAAAAATTACAGTGTTGATGC
CTTACATGAAATACCAGTGAAAAAAGGTGAAGGTGCCGAGCTATTAAACCTCCAGAATATTATTAGTCTGCATGGT
TAAAAGTAGTCATGGATAACTACATTACCTGTTCTTGCCTAATAAGTTTCTTTTAATCCAATCCACTAACACTTT
AGTTATATTTACTGGTTTTTACACAGAGAAATACAAAATAAAGATCACACATCAAGACTATCTACAAAAATTTATT
ATATATTTACAGAAGAAAAGCATGCATATCATTAACAATAAAATACTTTTTATCACAAAAAAAAAAAAAAAAA

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FIGURE 2000

MERPSLRALLLGAAGLLLLLLPLSSSSSSDTCGPCEPASCPLPLGCLLGETRDACGCCPMCARGEGEPCGGGG
AGRGYCAPGMECVKSRKRRKGKAGAAAGGPGVSGVCVCKSRYPVCGSDGTTYP SGCQLRAASQRAESRGEKAITQ
VSKGTCEQGPSIVTPPKDIWNV TGAQVYLSCEVIGIPTVLIWNKV KRGHYGVQRTELLPGDRDNLAIQTRGGPE
KHEVTGWVLVSPLSKEDAGEYECHASNSQGQASASAKITVVDALHEIPVKKGEGAEI

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FIGURE 2001

GAGACATTTCCTCAATTGCTTAGACATATTCTGAGCCTACAGCAGAGGAACCTCCAGTCTCAGCACCATGAATCAA
ACTGCGATTCTGATTTGCTGCCTTATCTTTCTGACTCTAAGTGGCATTCAAGGAGTACCTCTCTCTAGAACCGTA
CGCTGTACCTGCATCAGCATTAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAACTTGAAATTATTCCTGCA
AGCCAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGGGTGAGAAGAGATGTCTGAATCCAGAA
* AAAGGCCATCAAGAATTTACTGAAAGCAGTTAGCAAGGAAATGTCTAAAAGATCTCCTTAAAACCAGAGGGGA
AAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTGCCTCTCCCATCACTTCCCTACATGGAGTAT
AAATCAAGCCATAATTGTTCTTAGTTTGAGTTTACACTAAAAGGTGACCAATGATGGTCACCAAATCAGCTGCTA
CTACTCCTGTAGGAAGGTTAATGTTTCATCATCCTAAGCTATTCAGTAATAACTCTACCCTGGCACTATAATGTAA
CTACTGAGGTGCTATGTTCTTAGTGGATGTTCTGACCCTGCTTCAAATATTTCCCTCACCTTTCCCATCTTC
AAAGGTACTAAGGAATCTTTCTGCTTTGGGGTTTATCAGAATTCTCAGAATCTCAAATAACTAAAAGGTATGCA
AAATCTGCTTTTTAAAGAATGCTCTTTACTTTCATGGACTTCCACTGCCATCTCCCAAGGGGCCCCAAATTCT
* AGTGGCTACCTACATACAATTCCAAACACATACAGGAAGGTAGAAATATCTGAAAATGTATGTGTAAGTATT
CTATTTAATGAAAGACTGTACAAAGTATAAGTCTTAGATGTATATATTTCTATATTGTTTTAGTGTACATGG
AATAACATGTAATTAAGTACTATGTATCAATGAGTAACAGGAAAATTTTAAAAATACAGATAGATATATGCTCTG
CATGTTACATAAGATAAATGTGCTGAATGGTTTTCAAATAAAAATGAGGTACTCTCCTGGAAATATTAAGAAAGA
CTATCTAAATGTTGAAAGATCAAAAGGTTAATAAAGTAATTATAACT

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FIGURE 2002

MNQTAILICCLIFLTLSGIQGVPLSRTVRCTCISISNQPVNPRSLEKLEIIPASQFCPRVEIIATMKKKGEKRCL
NPESKAIAKNLLKAVSKEMSKRSP

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FIGURE 2003

CGCGGACCCGGCCGGCCAGGCCCGCGCCCGCCGCGGCCCTGAGAGGCCCGGCAGGTCCCGGCCCGGCGGGCGG
AGCCATGCGCCGGGGGGCCGGGCCCCGGGGGAGCCCGCAGCCCCGGCGCCAGCACTTCTTGTACGAGGTGCCGCC
CTGGGTCATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCCGACTGGTGCCAGTTCCGCCCCCTGAT
CGTGCGCGACCAGACCGAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCTGTGGCCCTGGAT
CAACCGCAACGCCCCGTGTGGCCGACCTCGTGCACATCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCCTCCCGCCCCGCTTCCGTCCCCAGGCACCACTGCCCCGAGGCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCCCTGGAGCCCCCGGAAGTTGCCATCTCAGCCTCCACCTTCTCTCCCCAGCTTTTCCAGG
CTCCCAGACCCATTAGGGCCTGAGCTCGGCCTGGTTCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCCTTCTTCTACCAAGCCAGGCCAGAGAGCTCAGTGTCCCTCCTGCAGGGAGCCCGCCCCCTCTCCGTTTTG
CTGGCCCCCTCTGTGAGATTTCCCGGGGCACCCACAACCTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAAGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTACCCAAACATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGGCTTCTACTGCCTGGTGTACGGCTTCTGCCCCAAGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCCCACCTCTCTCCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCG
GGCAATTAGTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGTCCTTCTGGA
TGAGAGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCGGTTAGCCGCTTTGCCGGGTCCAGCCCCAGCCA
GAGCAGCATGGTGGCCCGGACACAGACAGTGGCGGGCACCCTGGCCTACCTGCCCCAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTTGGCTGGTCAGAGGGCTGT
GAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGAAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACCTGGACCCAGGCCCGGGCCCTGCCCCACCTGAGCTGGGCCTGGGCCTGGGCCAGCTGGCCTGCTG
CTGCCTGCACCGCCCGGGCCAAAAGGAGGCCTCCTATGACCCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGGGTGCCCCGGGCATTGGAGGCCGCCAGCTGCATCCCCCCTTCCCCGAGGAGAACTCCTACGTGTC
CAGCACTGGCAGAGCCACAGTGGGGCTGCTCCATGGCAGCCCCCTGGCAGCGCCATCAGGAGCCAGTGGCCAGGC
AGCAGAGCAGCTGCAGAGAGGCCCAACCAGCCCGTGGAGAGTGACGAGAGCCTAGGCGGCCTCTCTGCTGCCCT
GCGCTCCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGGCTGTCTCTCAGGGGA
CACGGCAGGAGAATCGAGCTGGGGGAGTGGCCCAGGATCCCGGGCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTGTGTCAGAGCCACCGCAGATTATCATCAACCTGCCCGACAGAAGATGGTCCAGAAGCTGGC
CCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGCTGCTGTCTGCTCCAGCTCCCTCCCAGGCTTGGGCCTGGAACA
GGACAGGCAGGGGGCCGAAGAAAGTGATGAATTTAGAGCTGATGTGTTACCTGGGCAGATCCCCAAATCCGG
AAGTCAAAGTTCTCATGGTCAGAAGTTCTCATGGTGCACGAGTCTCAGCACTCTGCCGGCAGTGGGGGTGGGGG
CCCATGCCCGCGGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAC
CCTGCCTCCATGCCAGCATCTGGGGCAAGGAAGGCTGGCATCATCCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGAGGAGAGGGGCTGCTGTGCAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGGCGTCTGCAGCCAGGCCTCTGGCAGCAGCTCTTTGCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCCTAGGGCCCTCCTACCTGCTTACAATTTGGAAAAGTGTGGCCGGGTGCGGT
GGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTTGCCAAAAAATTTTTAAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTTATGCTTGGGAGGTCGAGGCTGCAGTGAGTCAT
GATTGTATGACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCTGTTTTCAAAAAGAAAAACCTGGGAAAAGTGA
AGTATGGCTGTAAGTCTCATGGTTCAGTCTTAGCAAGAAGCGAGAATTCTGAGATCCTCCAGAAAGTCGAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTACGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGCGCCACAGACGAGCTCCGAGCCAGGTGAGGCTTCGGAGGCCACAAGCTCAGCCTCA
GGCCAGGCACTGATTGTGGCAGAGGGGCCACTACCCAAGGTCTAGCTAGGCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCCTGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAACATTTTCAGGGAAAAGACAT
GTATCACATGTCTTCAGAAGCAAGTCAGGTTTTCATGTAACCGAGTGTCTCTGCGTGTCCAAAAGTAGCCAGG
GCTGTAGCACAGGCTTCACAGTGATTTTGTGTTTCCAGCGTGAGTCACACTACATGCCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCTTGAGTAATAAAAACGTATGTTCCCTAAAAA

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FIGURE 2004

MAGGPGGEPAAPGAQHFLYEVPWVMCRFYKVMDALEPADWCQFAALIVRDQTELRLCERSGQRTASVLWPWIN
RNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSPRKLPSSASTFLSPAFFGS
QTHSGPELGLVPSASLWPPPPSPAPSSTKPGPESSVSLQGARPSFFCWPLCEISRGTHNFSEELKIGEGGFGC
VYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRL
HCQTQACPPLSWPQRLDILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDERLTPKLGDFGLARFSRFAGSSPSQS
SMVARTQTVRGTLAYLPEEYIKTGRLAVD TDTSFGVVVLETLAQRAVKTHGARTKYLKDLVEEEAEEAGVALR
STQSTLQAGLAADAWAAPIAMQIYKKHLDPRPGPCPPELGLGLGQLACCC LHRRAKRRPPMTQVYERLEKLQAVV
AGVPGHLEAASCIPPSPQENSYVSSTGRAHSGAAPWQPLAAPSGASAQAAEQLRGPNQPVESDESLGGLSAALR
SWHLTPSCPLDPAPLREAGCPQGD TAGESSWGSGPGSRPTAVEGLALGSSASSSSSEPPQII INPARQKMOVQKLAL
YEDGALDSLQLLSSSSSLPGLGLEQDRQGPEESDEFQS

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FIGURE 2005A

ATTCAGCCGGTGCGCGGGCGGGAGGCGAGTGGCTGGGGAGTCCCGTCGACGCTCTGTTCCGAGAGCGTGCCC
CGGACCGCCAGCTCAGAACAGGGGCGAGCCGTGTAGCCGAACGGAAGCTGGGAGCAGCCGGGACTGGTGGCCCCGCG
CCCAGCTCCGCGAGGCGGGGAAGCACCCCTGGATTGGGAAGTCCCGGGAGCAGCGCGGGCGGCACCTCCCTCACCCA
AGGGGCGCGGGCGACGGTCACGGGGCGCGGGCGCCACCGTGAGCGACCCAGGCCAGGATTCTAAATAGACGGCCCA
GGCTCCTCCTCCGCCCCGGGCGCCTCACCTGCGGGCATTGCCGCGCCGCTCCGCCGGTGTAGACGGCACCTGCG
CCGCTTGCTCGCGGGTCTCCGCCCTCGCCCCACCTACTGCGCCAGGCCAGGCAGCTCACCTGTACTGGCGC
GGGCTGCGGAAGCCTGCGTGAGCCGAGGCGTTGAGGCGCGGGCGCCACGCCACTGTCCCGAGAGGACGCAGGTGG
AGCGGGCGCGGCTTCGCGGAACCCGGCGCGGGCGCCGCGAGTGGTCCCAGCCTACACCGGGTTCGGGGGACCCGG
CCGCCAGTGCCCGGGGAGTAGCCGCCGCGCTCGGCTGGGCACCATGAACAGCAGCAGCGCCAACATCACCTACGC
CAGTCGCAAGCGGCGGAAGCCGGTGCAGAAAACAGTAAAGCCAATCCCAGCTGAAGGAATCAAGTCAAATCCTTC
CAAGCGGCATAGAGACCGACTTAATACAGAGTTGGACCGTTTGGCTAGCCTGCTGCCCTTCCACAAGATGTTAT
TAATAAGTTGGACAACTTTCAGTTCTTAGGCTCAGCGTCAGTTACCTGAGAGCCAAGAGCTTCTTTGATGTTGC
ATTAATAATCCTCCCCTACTGAAAGAAACGGAGGCCAGGATAACTGTAGAGCAGCAAATTTAGAGAAGGCCTGAA
CTTACAAGAAGGAGAATTCTTATTACAGGCTCTGAATGGCTTGTATTAGTTGTCACTACAGATGCTTTGGTCTT
TTATGCTTCTTCTACTATACAAGATTATCTAGGGTTTCAGCAGTCTGATGTCATACATCAGAGTGTATATGAAT
TATCCATACCGAAGACCGAGCTGAATTTAGCGTCAGCTACACTGGGCATTAAATCCTTCTCAGTGTACAGAGTC
TGGACAAGGAATTGAAGAAGCCACTGGTCTCCCCAGACAGTAGTCTGTTATAACCCAGACCAGATTCTCCAGA
AAACTCTCCTTTAATGGAGAGGTGCTTCATATGTCGTCTAAGGTGTCTGCTGGATAATTCATCTGGTTTTCTGGC
AATGAATTTCCAAGGGAAGTTAAAGTATCTTCATGGACAGAAAAAGAAAGGGAAGATGGATCAATACTTCCACC
TCAGTTGGCTTTGTTTGGCATAGCTACTCCACTTCAGCCACCATCCATACTTGAAATCCGGACCAAAAATTTAT
CTTTAGAACCAAAACACAACTAGACTTCACACCTATTGGTTGTGATGCCAAAGGAAGAATTGTTTTAGGATATAC
TGAAGCAGAGCTGTGCACGAGAGGCTCAGGTTATCAGTTTATTTCATGCAGCTGATATGCTTTATTGTGCCGAGTC
CCATATCCGAATGATTAAGACTGGAGAAAGTGGCATGATAGTTTTCCGGCTTCTTACAAAAACAACCGATGGAC
TTGGGTCCAGTCTAATGCACGCCTGCTTTATAAAAATGGAAGACCAGATTATATCATTGTAATCAGAGACCACT
AACAGATGAGGAAGGAACAGAGCATTACGAAAACGAAATACGAAGTTGCCTTTTATGTTTACCACTGGAGAAGC
TGTGTTGTATGAGGCAACCAACCCTTTTCCTGCCATAATGGATCCCTTACCACTAAGGACTAAAAATGGCACTAG
TGGAAAAGACTCTGCTACCACATCCACTCTAAGCAAGGACTCTCTCAATCCTAGTTCCCTCCTGGCTGCCATGAT
GCAACAAGATGAGTCTATTTATCTCTATCCTGCTTCAAGTACTTCAAGTACTGCACCTTTTGAAAACAATTTTT
CAACGAATCTATGAATGAATGCAGAAATTGGCAAGATAATACTGCACCGATGGGAAATGATACTATCCTGAAACA
TGAGCAAATTGACCAGCCTCAGGATGTGAATCATTGCTGGAGGTCACCCAGGGCTCTTCAAGATAGTAAAAA
CAGTGACTTGTACAGCATAATGAAAAACCTAGGCATTGATTTTGAAGACATCAGACACATGCAGAATGAAAAATT
TTTCAGAAATGATTTTTCTGGTGAGGTTGACTTCAGAGACATTGACTTAACGGATGAAATCCTGACGTATGTCCA
AGATTCTTTAAGTAAGTCTCCCTTCATACCTCAGATTATCAACAGCAACAGTCCCTGGCTCTGAACTCAAGCTG
TATGGTACAGGAACACCTACATCTAGAACAGCAACAGCAACATCACCAAAAGCAAGTAGTAGTGAGCCACAGCA
ACAGCTGTGTCAGAAGATGAAGCACATGCAAGTTAATGGCATGTTTGAAAATTGGAATCTAACCAATTTCGTGCC
TTTCAATTGTCCACAGCAAGACCCACAACAATATAATGTCTTTACAGACTTACATGGGATCAGTCAAGAGTTCCC
CTACAAATCTGAAATGGATTCTATGCCTTATACACAGAACTTTATTTCTGTAAATCAGCCTGTATTACCACAACA
TTCCAAATGTACAGAGCTGGACTACCCTATGGGGAGTTTTGAACCATCCCCATACCCCACTACTTCTAGTTTAGA
AGATTTTGTCACTTGTTTACAACCTCCTGAAAACCAAAAGCATGGATTAAATCCACAGTCAGCCATAATAACTCC
TCAGACATGTTATGCTGGGGCCGTGTGATGATCAGTGCCAGCCAGAACCTCAGCACACCCACGTGGGTCAGAT
GCAGTACAATCCAGTACTGCCAGGCCAACAGGCATTTTTAAACAAGTTTCAAGATGGAGTTTTAAATGAAACATA
TCCAGCTGAATTAAATAACATAAAATAACTCAGACTACCACACATCTTCAGCCACTTCATCATCCGTGAGAAGC
CAGACCTTTTCTGATTGACATCCAGTGGATTCTGTAAATTTCCAAGCCCAATTTTGACCCTGGTTTTTGGATT
AATTAGTTTTGTGAAGGATTATGGAAAAATAAACTGTCACTGTTGGACGTGAGCAAGTTACATGGAGGCATTGA
TGCATGCTATTACAATTATTCCAAACCAAAATTTAATTTTTGCTTTTAGAAAAGGGAGTTTAAAAATGGTATCA
AAATTACATATACTACAGTCAAGATAGAAAGGGTGTGCCACGGAGTGGTGAGGTACCGTCTACATTTACATTA
TTCTGGGCACCACAAAATATACAAAACCTTTATCAGGGAACTAAGATTCTTTTAAATTAGAAAATATTCTCTATT
TGAATTATTTCTGTCACAGTAAAAATAAAATACTTTGAGTTTTGAGCTACTGGATTCTTATTAGTTCCCCAAATA

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FIGURE 2005B

CAAAGTTAGAGAACTAAACTAGTTTTTCCTATCATGTTAACCTCTGCTTTTATCTCAGATGTTAAAATAAATGGT
TTGGTGCTTTTTTATAAAAAGATAATCTCAGTGCTTTCTCCTTCACTGTTTCATCTAAGTGCCTCACATTTTTTT
CTACCTATAACACTCTAGGATGTATATTTTATATAAAGTATTCTTTTTCTTTTTTAAATTAATATCTTTCTGCAC
ACAAATATTATTTGTGTTTCCTAAATCCAACCAATTTTCATTAATTCAGGCATATTTTAACTCCACTGCTTACCT
ACTTTCTTCAGGTAAAAGGGCAAATAATGATCGAAAAAATAATTATTTATTACATAATTTAGTTGTTTCTAGACT
ATAAATGTTGCTATGTGCCTTATGTTGAAAAAATTTAAAAGTAAAATGTCCTTCCAAATTATTTCTTAATTATTA
TAAAAATATTAAGACAATAGCACTTAAATTCCTCAACAGTGTTTTTCAGAAGAAATAAATATACCACTCTTTACCT
TTATTGATATCTCCATGATGATAGTTGAATGTTGCAATGTGAAAAATCTGCTGTTAACTGCAACCTTGTTTATTA
AATTGCAAGAAGCTTTATTTCTAGCTTTTTAATTAAGCAAAAGCACCCATTTCAATGTGTATAAATTGTCTTTAAA
AACTGTTTTAGACCTATAATCCTTGATAATATATTGTGTTGACTTTATAAATTTTCGCTTCTTAGAACAGTGAAAA
CTATGTGTTTTTCTCATATTTGAGGAGTGTTAAGATTGCAGATAGCAAGGTTTGGTGCAAAGTATTGTAATGAGT
GAATTGAATGGTGCATTGTATAGATATAATGAACAAAATTTATTTGTAAGATATTTGCAGTTTTTTCATTTTAAAAA
GTCCATACCTTATATATGCACTTAATTTGTTGGGGCTTTACATACTTTATCAATGTGTCTTTCTAAGAAATCAAG
TAATGAATCCAACCTGCTTAAAGTTGGTATTAATAAAAAGACAACCACATAGTTCGTTTACCTTCAAACCTTTAGGT
TTTTTTAATGATATACTGATCTTCATTACCAATAGGCAAATTAATCACCCCTACCAACTTTACTGTCTTAACATGG
ACTTTCAAAAAGAAAAAATGACACCATCTTTATCTTTTTTTTTTTTTTTTTTTTGGAGAGAGAGTCTTACTCTGC
CGCCCAAACCTGGAGTGCAGTGGCACAATCTTGGCTCACTGCAACCTCTACCTCCTGGGTTCAAGTGATTCTCTTG
CCTCAGCCTCCCGAGTTGCTGGGATTGCGGGCATGGTGGCGTGAGCCTGTAGTCCTAGCTACTCGGGAGGCTGAG
GCAGGAGAATAGCCTGAACCTGGGAATCGGAGGTTGCAGGGCCAAGATCGCCCCACTGCACTCCAGCCTGGCAAT
AGACCGAGCTCCGTCTCCAAAAAATAACAATTTTTATTTCTTTTACTTTTTTTAGTAAGTTAATGTATATA
AAAATGGCTTCGGACAAAATATCTCTGAGTTCTGTGTATTTTCAGTCAAAACCTTTAAACCTGTAGAATCAATTTA
AGTGTGTAAGAAAAATTTGTCTGAAACATTTTATAATTTGTTTCCAGCATGAGGTATCTAAGGATTTAGACCAGAG
GTCTAGATTAATACTCTATTTTTTACATTTAAACCTTTTATTATAAGTCTTACATAAACCATTTTTGTTACTCTCT
TCCACATGTTACTGGATAAATTGTTTAGTGGAATAAGGCTTTTTAATCATGAATATGATGACAATCAGTTATAC
AGTTATAAAATTAAGTTTGAAGCAATATTGTATATTTTTATCTATATAAAATAACTAAAATGTATCTAAGA
ATAATAAAATCACGTTAAACC

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FIGURE 2006

MNSSSANITYASRKRKPVQKTVKPIPAEGIKSNPSKRHRDRLNTELDRLASLLPFPQDVINKLDKLSVLRLSVS
YLRKSSFFDVALKSSPTERNGGQDNCRAANFREGLNLQEGEFLLOALNGFVLVVTTDALVFYASSTIQDYLGFOO
SDVIHQSVYELIHTEDRAEFQRQLHWALNPSQCTESGQGIEEATGLPQTVVCYNPDQIPPENSPLMERCFCRLR
CILDNSSGFLAMNFQGLKYLHGQKKKGKDGSI LPPQALFAIATPLQPPSILEIRTKNFI FRTKHKLDFTPIGC
RIVLGYTEAELCTRGSGYQFIHAADMLYCAESHIRMIKTGESGMIVFRLLTKNRWTWVQSNARLLYKNGR
IVTQRPLTDEEGTEHLRKRNTKLPFMFTTGEAVLYEATNFFPAIMDPLPLRTKNGTSGKDSATTSTLSKDS
SSILAAMMQQDESIYLYPASSTSSSTAPFENNFFNESMNECRNWQDNTAPMGNDTILKHEQIDQPQDVNSFAG
GHPGLFQDSKNSDLYSIMKNLGIDFEDIRHMONEKFFRNDFSGEVDFRDIDLTDEILTYVQDSLKSPPFIPSDYQ
ALNSSCMVQEHLEQQQHHQKQVVVEPQQQLCQKMKHMVNGMFENWNSNQFVFNCPQQDPQQYNVF
LHGISOEFFPYKSEMDSPYTQNFISCNQPVLPQHSKCTELDYPMGSFEPSPYPTTSSLEDFVTCLOLPENQKH
QSAIITPQTCYAGAVSMYQCQPEPQHTHVGMQYNVLPQGQAFLNKFQNGVLNETYPaelnninntqTTT
PLHHPSEARFPDLTSSGFL

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FIGURE 2007

AAAGAACCGCACACCACAGACTCCCTCCAGCTCTTTGTGTGTGGCTCTCTCAGGGTCCAACAAGAGCAAGCTGTG
GGTCTGTGAGTGTATATGTGTGCTTTTATTCACTTCACACTTATTGAAAAGTGTGTATGTGAGAGGGTGGGGTGT
GTGTGTCAAAGAGAGTGAGGAAGAGAAGGAGAGAGAGATCAATTGATTCTGCAGCCTCAGCTCCAGCATCCCTCA
GTTGGGAGCTTCCAAAGCCGGGTGATCACTTGGGGTGCATAGCTCGGAGATGCAGTCCCCCTGGAAAAATCCTTAC
GGTGGCGCCTCTATTCTTGCTCCTGTCTCTTCAGTCCTCGGCCTCTCCAGCCAACGATGACCAGTCCAGGCCAG
CCTCTCGAATGGGCACACCTGTGTAGGGTGTGTGCTGGTGGTGTCTGTAATAGAACAGCTTGCTCAAGTTCACAA
CTCGACGGTCCAGGCCTCGATGGAGAGACTGTGCAGCTACCTGCCTGAAAACTGTTCTTGAAAACACCTGCTA
TTTAGTCATTGACAAGTTTGATCAGACATCATAAACTGCTTAGCGCAGATATGAATGCTGATGTGGTATGTCA
CACTCTGGAGTTTTGTAAACAGAACACTGGCCAACCATTGTGTCTCTTACCCTCTTCCCAAGGAGACATGGAA
ATTTACACTACAGAAGGCAAGACAAATTGTCAAGAAGTCCCCGATTCTGAAATATTCTAGAAGTGGTTCTGACAT
TTGTTCACTCCCGGTTTTGGCCAAGATCTGCCAGAAAATTAAATTAGCTATGGAACAGTCTGTGCCATTCAAAGA
TGTGGATTACAGACAAATACAGCGTTTTTCCCAACTGCGGGGCTATCACTGGCGGGGAGAGACTGTAATGACAG
CGACGAGTCAGTGTACCCAGGTAGAAGGCCGAACAACCTGGGATGTCCATCAGGATTCAAAGTGAATGGCATTG
GGGTGTGATCCAAAAGATGGAGTTCCATATGAGAAGAAATCTGTGAAGGTTACAGCCCAGGGGAATCATTTT
GCTGGGAGACTCAGCTGGGGCTCATTTTACATCTCTCCTGAATGGATCACAGCGTCGCAGATGTCTTTGAACTC
TTTCATCAATCTACCAACAGCCCTTACCAACGAGCTTGACTGGCCCCAACTCTCTGGTGCTACAGGATTTCTGGA
CTCCACTGTTGGAATTAAAGAAAAATCTATTTACCTTCGCTTATGGAAAAGAAACCACTGTAATCACAGGGACTA
CCAGAATATTTCAAGAAATGGTGCATCTTCCCGAAACCTGAAGAAATTTATAGAAAGCTTGTCTAGAAACAAGGT
GTTGGACTATCCCGCCATCGTTATATATGCCATGATTGGAATGATGTCTGCAGTGGGAAGAGTGACCCAGTCCC
AGCCATGACCACTCCTGAGAACTCTACTCCAACGTCATGCAGACTCTGAAGCATCTAAATTCCCACCTGCCCCA
TGGCAGCCATGTTATTTTGTATGGCTTACCAGATGGAACCTTTCTCTGGGATAATTTGCACAACAGATATCATCC
TCTCGGCCAGCTAAATAAAGACATGACCTATGCGCAGTTGTACTCCTTCTGAACTGCCTCCAGGTCAGCCCCTG
CCACGGCTGGATGTCTTCCAACAAGACGTTGCGGACTCTCACTTCAGAGAGAGCAGAGCAACTCTCCAACACACT
GAAAAAAATTGCAGCCAGTGAGAAATTTACAACTTCAATCTTTTCTACATGGATTTTGCCTTCCATGAAATCAT
ACAGGAGTGGCAGAAGAGAGGCGGACAGCCCTGGCAGCTCATCGAGCCCGTGGATGGATTCCACCCCAACGAGGT
GGCTTTGCTGTTGTTGGCGGATCATTTCTGGAAGGAGGTGCAGCTCCAGTGGCCCCAAATCCTGGGAAAGGAGAA
TCCGTTCAACCCCAAGATTAAACAGGTGTTTGGAGACCAAGGCGGGCACTGAGCCCTCTCAGGAGCATGCACCCCT
GGGGAGCACAGGGAGGCAGAGGCTTGGGTAACTCATTCCACAAACCTATGGGGGCTGCCACGTCACAGGCCCA
AAGGACTCTTCTTCAGCAGCATCTTTGCAAAATGTCTTTCTCTCAATGAAGAGCATATCTGGACGACTGTGCAAT
GCTGTGTGCTCCCGGGGATCAGTAACCTTCCGCTGTTTCTGAAATAACCTTTTATAAAGTGCTTTGGGTGCCAT
TCCA

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FIGURE 2008

MQSPWKILTVAPLFLLLSLQSSASPANDDQSRPSLSNGHTCVGCVLVVSVIEQLAQVHNSTVQASMERLCSYLPE
KLFKTTTCYLVIDKFGSDI IKLLSADMNADVCHTLEFCKQNTGQPLCHLYPLPKETWKFTLQKARQIVKKSPIL
KYSRSGSDICSLPVLAKICQKIKLAMEQSVPFKDVDSDKYSVFPTLRGYHWRGRDCNDSDESVPGRRPNNWDVH
QDSNCNGIWGVDPKDGVPYEKKFCEGSQPRGIILLGDSAGAHFHISPEWITASQMSLNSFINLPTALTNELDWPQ
LSGATGFLDSTVGIKEKSIYLRWLKRNHCNHRDYQNISRNGASSRNLKKFIESLSRNKVLDPYPAIVIYAMIGNDV
CSGKSDPVPAMTTPEKLYSNVMQTLKHLNSHLPNGSHVILYGLPDGTFLWDNLHNRYHPLGQLNKDMTYAQLYSF
LNCLQVSPCHGWMSSNKTLRILTSEAEQLSNTLKKIAASEKFTNFNLFYMDFAFHEIIQEWQKRGGQPWQLIEP
VDGFHPNEVALLLLADHFWKKVQLQWPQILGKENPFNPQIKQVFGDQGGH

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FIGURE 2009

CCTAAGATGAGCTTTCCATGTAAATTTGTAGCCAGCTTCCTTCTGATTTTCAATGTTTCTTCCAAAGGTGCAGTC
TCCAAAGAGATTACGAATGCCTTGGAAACCTGGGGTGCCTTGGGTGAGGACATCAACTTGGACATTCCTAGTTTT
CAAATGAGTGATGATATTGACGATATAAAATGGGAAAAAACTTCAGACAAGAAAAAGATTGCACAATTCAGAAAA
GAGAAAGAGACTTTCAAGGAAAAAGATACATATAAGCTATTTAAAAATGGAACCTCTGAAAATTAAGCATCTGAAG
ACCGATGATCAGGATATCTACAAGGTATCAATATATGATACAAAAAGGAAAAAATGTGTTGGAAAAAATATTTGAT
TTGAAGATTCAAGAGAGGGTCTCAAACCAAAGATCTCCTGGACTTGTATCAACACAACCCTGACCTGTGAGGTA
ATGAATGGAACCTGACCCCGAATTAACCTGTATCAAGATGGGAAACATCTAAAACCTTTCTCAGAGGGTTCATCACA
CACAAGTGGACCACCAGCCTGAGTGCAAAATTCAGTGCACAGCAGGGAACAAAGTCAGCAAGGAATCCAGTGTC
GAGCCTGTGAGCTGTCCAGAGAAAGGTCTGGACATCTATCTCATCATTGGCATATGTGGAGGAGGCAGCCTCTTG
ATGGTCTTTGTGGCACTGCTCGTTTTCTATATCACAAAAGGAAAAAACAGAGGAGTCGGAGAAATGATGAGGAG
CTGGAGACAAGAGCCACAGAGTAGCTACTGAAGAAAGGGGCCGGAAGCCCCAACAAATTCAGCTTCAACCCCT
CAGAATCCAGCAACTTCCCAACATCCTCCTCCACCACCTGGTCATCGTTCCAGGCACCTAGTCATCGTCCCCCG
CCTCCTGGACACCGTGTTTCAGCACCAGCCTCAGAAGAGGCCTCCTGCTCCGTCGGGCACACAAGTTTACCAGCAG
AAAGGCCCGCCCCCTCCCCAGACCTCGAGTTCAGCCAAAACCTCCCCATGGGGCAGCAGAAAACTCATTGTCCCCT
TCCTCTAATTAAGAAAGATAGAACTGTCTTTTCAATAAAAAGCACTGTGGATTCTGCCCCTCCTGATGTGCAT
ATCCGTAATTCATGAGGTGTTTTCTGTGTGCAGAACATTGTACCTCCTGAGGCTGTGGGCCACAGCCACCTCT
GCATCTTCGAACTCAGCCATGTGGTCAACATCTGGAGTTTTTGGTCTCCTCAGAGAGCTCCATCACACCAGTAAG
GAGAAGCAATATAAGTGTGATTGCAAGAATGGTAGAGGACCGAGCACAGAAATCTTAGAGATTTCTTGTCCCCTC
TCAGGTTCATGTGTAGATGCGATAAATCAAGTGATTGGTGTGCCTGGGTCTCACTACAAGCAGCCTATCTGCTTAA
GAGACTCTGGAGTTTCTTATGTGCCCTGGTGGACACTTGCCACCATCCTGTGAGTAAAAGTGAAATAAAAGCTT
TGAC

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FIGURE 2010

MSFPCKFVASFLLIFNVSSKGAVSKEITNALETWGALGQDINLDIPSFQMSDDIDDIKWEKTSKKKIAQFRKEK
ETFKEKDTYKLFKNGTLKIKHLKTDDQDIYKVSIIYDTKGKNVLEKIFDLKIQERVSKPKISWTCINTTLTCEVMN
GTDPELNLYQDGKHLKLSQRVITHKWTTSLSAKFCTAGNKVSKESSVEPVSCPEKGLDIYLIIGICGGGSLLMV
FVALLVFYITKRKKQRSRRNDEELETRAHRVATEERGRKPQIPASTPQNPATSQHPPPPPGHRSQAPSHRPPPP
GHRVQHQPQKRPPAPSGTQVHQKGPPLPRPRVQPKPPHGAAENSLSPSSN

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FIGURE 2011

CCATCCCATAGTGAGGGAAGACACGCGGAAACAGGCTTGACCCAGACACGACACCATGCATCTCCTCGGCCCCCT
GGCTCCTGCTCCTGGTTCTAGAATACTTGGCTTTCTCTGACTCAAGTAAATGGGTTTTTGGACACCCTGAAACCC
TCTACGCCTGGGAGGGGGCCTGCGTCTGGATCCCCTGCACCTACAGAGCCCTAGATGGTGACCTGGAAAGCTTCA
TCCTGTTCCACAATCCTGAGTATAACAAGAACACCTCGAAGTTTGATGGGACAAGACTCTATGAAAGCACAAGG
ATGGGAAGGTTCTTCTGAGCAGAAAAGGGTGCAATTCCTGGGAGACAAGAATAAGAACTGCACACTGAGTATCC
ACCCGGTGACCTCAATGACAGTGGTCAGCTGGGGCTGAGGATGGAGTCCAAGACTGAGAAATGGATGGAACGAA
TACACCTCAATGTCTCTGAAAGGCCTTTTCCACCTCATATCCAGCTCCCTCCAGAAATTCAGAGTCCCAGGAAG
TCACTCTGACCTGCTTGCTGAATTTCTCCTGCTATGGGTATCCGATCCAATTGCAGTGGCTCCTAGAGGGGGTTC
CAATGAGGCAGGCTGCTGTACCTCGACCTCCTTGACCATCAAGTCTGTCTTCACCCGGAGCGAGCTCAAGTTCT
CCCCACAGTGGAGTCACCATGGGAAGATTGTGACCTGCCAGCTTCAGGATGCAGATGGGAAGFTCCTCTCCAATG
ACACGGTGACGCTGAACGTGAAGCACACCCCGAAGTTGGAGATCAAGGTCCTCCAGTGATGCCATAGTGAGGG
AGGGGGACTCTGTGACCATGACCTGCGAGGTGACGAGCAACCCGGAGTACACGACGGTATCCTGGCTCAAGG
ATGGGACCTCGCTGAAGAAGCAGAATACATTACGCTAAACCTGCGCGAAGTGACCAAGGACCAGAGTGGGAAGT
ACTGCTGTGAGGTCTCCAATGACGTGGGCCCCGGAAGGTGCGAAGAAGTGTTCCTGCAAGTGCAGTATGCCCCGG
AACCTTCCACGGTTCAGATCCTCCACTCACCGGCTGTGGAGGGGAAGTCAAGTCGAGTTTCTTTGCATGTCACTGG
CCAATCCTCTTCCAACAAATTACACGTGGTACCACAATGGGAAAGAAATGCAGGGAAGGACAGAGGAGAAAGTCC
ACATCCCAAAGATCCTCCCCTGGCAGCTGGGACTTATTCCTGTGTGGCAGAAAACATTCTTGGTACTGGACAGA
GGGGCCCCGGGAGCTGAGCTGGATGTCCAGTATCCTCCCAAGAAGGTGACCACAGTGATTCAAAACCCCATGCCGA
TTCGAGAAGGAGACACAGTGACCCTTTCTGTAACTACAATTCCAGTAACCCCAAGTGTACCCGGTATGAATGGA
AACCCCATGGCGCCTGGGAGGAGCCATCGCTTGGGGTGTGAAGATCCAAAACGTTGGCTGGGACAACACAACCA
TCGCTGCGCACGTTGTAATAGTTGGTGCTCGTGGGCCTCCCCTGTGCCCCTGAATGTCCAGTATGCCCCCGAG
ACGTGAGGGTCCGGAAATCAAGCCCCCTTTCCGAGATTCACTCTGGAAACTCGGTACGCCTCCAATGTGACTTCT
CAAGCAGCCACCCCAAAGAAGTCCAGTTCTTCTGGGAGAAAAATGGCAGGCTTCTGGGGAAGAAAGCCAGCTGA
ATTTTGACTCCATCTCCCCAGAAGATGCTGGGAGTTACAGCTGCTGGGTGAACAACTCCATAGGACAGACAGCGT
CCAAGGCCTGGACACTTGAAGTGTGTATGCACCCAGGAGGCTGCGTGTGTCCATGAGCCCCGGGGACCAAGTGA
TGGAGGGGAAGAGTGAACCCCTGACCTGTGAGAGTGACGCCAACCCCTCCCGTCTCCCACTACACCTGGTTTGACT
GGAATAACCAAAGCCTCCCCCACCACAGCCAGAAGCTGAGATTGGAGCCGGTGAAGGTCCAGCACTCGGGTGCCT
ACTGGTGCCAGGGGACCAACAGTGTGGGCAAGGGCCGTTGCGCTCTCAGCACCCCTTACTGTCTACTATAGCCCCG
AGACCATCGGCAGGCGAGTGGCTGTGGGACTCGGGTCTGCGCTCGCCATCCTCATCCTGGCAATCTGTGGGCTCA
AGCTCCAGCGACGTTGGAAGAGGACACAGAGCCAGCAGGGGCTTCAGGAGAATTCAGCGGCCAGAGCTTCTTTG
TGAGGAATAAAAAGGTTAGAAGGGCCCCCTCTCTGAAGGCCCCCACTCCCTGGGATGCTACAATCCAATGATGG
AAGATGGCATTAGCTACACCACCCTGCGCTTTCCCGAGATGAACATACCACGAACCTGGAGATGCAGAGTCTCAG
AGATGCAGAGACCTCCCCGGACCTGCGATGACACGGTCACTTATTCAGCATTGCACAAGCGCCAAGTGGGCGACT
ATGAGAACGTCATTCCAGATTTTCCAGAAGATGAGGGGATTCACTACTCAGAGCTGATCCAGTTTGGGGTCCGGG
AGCGGCCTCAGGCACAAGAAAATGTGGACTATGTGATCCTCAAACATTGACACTGGATGGGCTGCAGCAGAGGCA
CTGGGGGCAGCGGGGGCCAGGGAAGTCCCCGAGTTTCCCAGACACCGCCACATGGCTTCTCCTGCGTGATGT
GCGCACACACACACACACACGACACACACACACACACTCACTGCGGAGAACCTTGTGCTGGCTCAGAGCCA
GTCTTTTTGGTGAGGGTAACCCCAAACCTCCAAAACCTGCCCCCTGTTCTCTTCCACTCTCCTTGCTACCCAGA
AATCATCTAAATACCTGCCCTGACATGCACACCTCCCCGCCCCACAGCCCACTGGCCATCTCCACCCGGAGCT
GCTGTGCTCCTCTGGATCTGCTCGTCATTTTCTTCCCTTCTCCATCTCTCTGGCCCTCTACCCCTGATCTGACAT
CCCCACTCACGAATATTATGCCAGTTTCTGCCTCTGAGGGAAAGCCCAGAAAAGGACAGAAACGAAGTAGAAAG
GGGGCCAGTCTGCGCTGGCTTCTCCTTTGGAAGTGAGGCATTGCACGGGGAGACGTACGTATCAGCGGCCCTT
GACTCTGGGGACTCCGGGTTTGAGATGGACACACTGGTGTGGATTAACCTGCCAGGGAGACAGAGCTCACAATAA
AAATGGCTCAGATGCCACTTCAAAGAAAAAAAAA

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FIGURE 2012

MHLLGPWLLLLLVLEYLAFSDSSKWVFEHPETLYAWEGACVWIPCTYRALDGDLESFILFHNPEYNKNTSKFDGTR
LYESTKDGVKVPSEQKRVQFLGDKNKNCTLSIHPVHLNDSGQLGLRMESKTEKWMERIHLNVSERPFPPHIQLPPE
IQESQEVTLTCLLNFSYGYPIQLQWLLEGVPMRQAAVTSTSLTIKSVFTRSELKFSPQWSHHGKIVTCQLQDAD
GKFLSNDTVQLNVKHTPKLEIKVTPSDAIVREGDSVTMTCEVSSSNPEYTTVSWLKDGTSLKKQNTFTLNLREVT
P...KYCCQVSNDVGPGRSEEVFLQVQYAPEPSTVQILHSPAVEGSQVEFLCMSLANPLPTNYTWYHNGKEMQG
...KVVHIPKILPWHAGTYSCVAENILGTGQRGPGAELDVQYPPKKVTTVIQNPMPIREGDTVTLSCNYNSSNPS
...KWKPHGAWEEP SLGVLKIQNVGWDNTTIIACARCNSWCSWASPVALNVQYAPRDVRVRKIKPLSEIHSGNSV
SLQCDFSSSHPKVQFFWEKNGRLLGKESQLNFD SISPEDAGSYSCWVNNSIGQ TASKAWTLEVLYAPRRLRVSM
...QVMEGKSATLTCESDANPPVSHYTWF DWNNQSLPHHSQKLRLPEVKVQHSGAYWCQGTNSVGKGRSPLSTL
...YSPETIGRRVAVGLGSLAILILAICGLKLQRRWKRTQSQQGLQENSSGQSFFVRNKKVRRAPLSEGP HSLG
...MEDGISYTTLRFPENIPRTGDAESSEMQRPPRTCDDTVTYSALHKRQVG DYENVIPDFPEDEGIHYSEL
...VGERPQAQENV DYVILKH

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FIGURE 2013

GTCTCCCCACTGTCAGCACCTCTTCTGTGTGGTGAGTGGACCGCTTACCCCACTAGGTGAAGATGTCAGCCCAG
GAGAGCTGCCTCAGCCTCATCAAGTACTTCCTCTTCGTTTTCAACCTCTTCTTCTTCGTCTCGGCAGCCTGATC
TTCTGCTTCGGCATCTGGATCCTCATCGACAAGACCAGCTTCGTGTCCTTTGTGGGCTTGGCCTTCGTGCCTCTG
CAGATCTGGTCCAAAGTCCTGGCCATCTCAGGAATCTTACCATGGGCATCGCCCTCCTGGGTTGTGTGGGGGCC
CTCAAGGAGCTCCGCTGCCTCCTGGGCCTGTATTTTGGGATGCTGCTGCTCCTGTTTGCCACACAGATCACCTG
GGAATCCTCATCTCCACTCAGCGGGCCCAGCTGGAGCGAAGCTTGCGGGACGTCGTAGAGAAAACCATCCAAAAG
TACGGCAGCAACCCCGAGGAGACCGCGGCCGAGGAGAGCTGGGACTATGTGCAGTTCCAGCTGCGCTGCTGCGGC
TGGCACTACCCGCAGGACTGGTTCCAAGTCCTCATCCTGAGAGGTAACGGGTCGGAGGCGCACCGCTGCCCTGC
TCCTGCTACAACCTTGTCGGCGACCAACGACTCCACAATCCTAGATAAGGTGATCTTGCCCCAGCTCAGCAGGCTT
GGACACCTGGCGCGGTCCAGACACAGTGCAGACATCTGCGCTGTCCCTGCAGAGAGCCACATCTACCGCGAGGGC
TGCGCGCAGGGCCTCCAGAAGTGGCTGCACAACAACCTTATTTCCATAGTGGGCATTTGCCTGGGCGTCGGCCTA
CTCGAGCTCGGGTTCATGACGCTCTCGATATTCTGTGCAGAAACCTGGACCACGTCTACAACCGGCTCGCTCGA
TACCGTTAGGCCCCGCCCTCCCCAAAGTCCCGCCCCGCCCCGTCACGTGCGCTGGGCACTTCCCTGCTGCCTGT
AAATATTTGTTTAATCCCCAGTTTCGCCTGGAGCCCTCCGCCTTCACATTCCCCTGGGGACCCACGTGGCTGCGTG
CCCCTGCTGCTGTACCTCTCCACGGGACCTGGGGCTTTCGTCCACAGCTTCCTGTCCCCATCTGTTCGGCCTAC

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FIGURE 2014

MSAQESCLSLIKYFLFVFNLFVFLGSLIFCFGIWILIDKTSFVSFVGLAFVPLQIWSKVLAISGIFTMGIALLG
CVGALKELRCLLGLYFGMLLLLFATQITLGILISTQRAQLERSLRDVVEKTIQKYGTNPEETAAEESWDYVQFQL
RCCGWHYPQDWFQVLILRGNGSEHRVPCSCYNLSATNDSTILDKVILPQLSRLGHLARSRHSADICAVPAESHI
YREGCAQGLQKWLHNNLISIVGICLGVLLELGFMTLSIFLCRNLDHVYNRLARYR

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FIGURE 2015

TGCTGCAACTCAAATAACCAACCCACTGGGAGAAGATGCTGGGGGTCCAGGAGTCCTCCAAGCTCTGCCTGCC
ACCATCTTCCTCCTCTTCCTGCTGTCTGCTGTCTACCTGGGGCCCTGGGTGCCAGGCCCTGTGGATGCACAAGGTC
CCAGCATCATTGATGGTGAGCCTGGGGGAAGACGCCCCTTCCAATGCCCGCACAATAGCAGCAACAACGCCAAC
GTCACCTGGTGGCGCGTCCTCCATGGCAACTACACGTGGCCCCCTGAGTTCTTGGGGCCGGGCGAGGACCCCAAT
GGTACGCTGATCATCCAGAATGTGAACAAGAGCCATGGGGGCATATACGTGTGCCGGGTCCAGGAGGGCAACGAG
TCATACCAGCAGTCCTGCGGCACCTACCTCCGCGTGCGCCAGCCGCCCCCAGGCCCTTCCTGGACATGGGGGAG
GGCACCAGAACCGAATCATCACAGCCGAGGGGATCATCCTCTGTTCTGCGCGGTGGTGCCTGGGACGCTGCTG
CTGTTTCAGGAAACGATGGCAGAACGAGAAGCTCGGGTTGGATGCCGGGGATGAATATGAAGATGAAAACCTTTAT
GAAGGCCTGAACCTGGACGACTGCTCCATGTATGAGGACATCTCCCGGGCCTCCAGGGCACCTACCAGGATGTG
GGCAGCCTCAACATAGGAGATGTCCAGCTGGAGAAGCCGTGACACCCCTACTCCTGCCAGGCTGCCCCCGCCTGC
TGTGCACCCAGCTCCAGTGTCTCAGCTCACTTCCCTGGGACATTCTCCTTTTCAGCCCTTCTGGGGGCTTCCTTAG
TCATATTCCCCCAGTGGGGGGTGGGAGGGTAACCTCACTCTTCTCCAGGCCAGGCCTCCTTGGAATCCCCTGGGG
GTGTCCCACTCTTCTTCCCTCTAACTGCCCCACCTCCTAACCTAATCCCCACGCCCCGCTGCCTTTCCCAGGCT
CCCCCTACCCAGCGGGTAATGAGCCCTTAATCGCTGCCTCTAGGGGAGCTGATTGTAGCAGCCTCGTTAGTGTCA
CCCCCTCCTCCCTGATCTGTCAGGGCCACTTAGTGATAATAAATTCTTCCCACTGC

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FIGURE 2016

MPGGPGVLQALPATIFLLFLLSAVYLGPGCQALWMHKVPASLMVSLGEDAHFQCPHNSSNNANVTWWRVLHGNYT
WPPEFLGPGEDPNEPPRPFLDMGEGTKNRIITAEGIILLFCAVVPGTLLLFKRWQNEKLGLDAGDEYEDENLY
EGLNLDDCSMYEDISRGLQGTYQDVGSLNIGDVQLEKP

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FIGURE 2017A

GCCCTCCCAGAGCTGCCGGACGCTCGCGGGTCTCGGAACGCATCCCCGCCGCGGGGGCTTCGGCCGTGGCATGGGC
GCCGCGGGCCTGCTCGGGGTTTTCTTGGCTCTCGTCGCACCGGGGGTCTCGGGATTTCTTGTGGCTCTCCTCCG
CCTATCCTAAATGGCCGGATTAGTTATTATTCTACCCCCATTGCTGTTGGTACCGTGATAAGGTACAGTTGTTCA
GGTACCTTCCGCCTCATTGGAGAAAAAGTCTATTATGCATAACTAAAGACAAAGTGGATGGAACCTGGGATAAA
CCTGCTCCTAAATGTGAATATTTCAATAAATATTCTTCTTGCCTGAGCCCATAGTACCAGGAGGATACAAAATT
AGAGGCTCTACACCCTACAGACATGGTGATTCTGTGACATTTGCCTGTAAAACCAACTTCTCCATGAACGGAAAC
AAGTCTGTTTGGTGTCAAGCAAATAATATGTGGGGGCCGACACGACTACCAACCTGTGTAAGTGTTCCTCTC
GAGTGTCCAGCACTTCTATGATCCACAATGGACATCACACAAGTGAGAATGTTGGCTCCATTGCTCCAGGATTG
TCTGTGACTTACAGCTGTGAATCTGGTTACTTGTCTTGTGGAGAAAAGATCATTAACTGTTTGTCTTCGGGAAAA
TGGAGTGTGTCCCCCCCACATGTGAAGAGGCACGCTGTAAATCTCTAGGACGATTTCCCAATGGGAAGGTAAAG
GAGCCTCCAATTCTCCGGGTTGGTGTAACTGCAAACTTTTCTGTGATGAAGGGTATCGACTGCAAGGCCACCT
TCTAGTCGGTGTGTAATTGCTGGACAGGGAGTTGCTTGGACCAAAATGCCAGTATGTGAAGAAATTTTTTGCCCA
TCACCTCCCCCTATTCTCAATGGAAGACATATAGGCAACTCACTAGCAAATGTCTCATATGGAAGCATAGTCACT
TACACTTGTGACCCGGACCCAGAGGAAGGAGTGAACCTCATCCTTATTGGAGAGAGCACTCTCCGTTGTACAGTT
GATAGTCAGAAGACTGGGACCTGGAGTGGCCCTGCCCCACGCTGTGAACCTTTCTACTTCTGCGGTTCACTGTCCA
CATCCCCAGATCCTAAGAGGCCGAATGGTATCTGGGCAGAAAGATCGATATACCTATAACGACACTGTGATATTT
GCTTGCATGTTTGGCTTACCTTGAAGGGCAGCAAGCAAATCCGATGCAATGCCCAAGGCACATGGGAGCCATCT
GCACCAGTCTGTGAAAAGGAATGCCAGGCCCTCCTAACATCCTCAATGGGCAAAAGGAAGATAGACACATGGTC
CGCTTTGACCCTGGAACATCTATAAAATATAGCTGTAAACCCTGGCTATGTGCTGGTGGGAGAAGAATCCATACAG
TGTACCTCTGAGGGGGTGTGGACACCCCTGTACCCCAATGCAAAGTGGCAGCGTGTGAAGCTACAGGAAGGC
CTCTTGACAAAACCCAGCACCAATTTGTTAGACCAGATGTCAACTCTTCTGTGGTGAAGGGTACAAGTTAAGT
GGGAGTGTATATCAGGAGTGTCAAGGCACAATTCCTTGGTTTATGGAGATTCGTCTTTGTAAAGAAATCACCTGC
CCACCACCCCTGTTATCTACAATGGGGCACACACCGGGAGTTCCTTAGAAGATTTTCCATATGGAACCAAGGTC
ACTTACACATGTAAACCCTGGGCCAGAAAGAGGAGTGAATTCAGCCTCATTGGAGAGAGCACCATCCGTTGTACA
AGCAATGATCAAGAAAGAGGCACCTGGAGTGGCCCTGCTCCCTATGTAACTTTCCCTCCTTGTGTCCAGTGC
TCACATGTCCATATTGCAAATGGATACAAGATATCTGGCAAGGAAGCCCCATATTTCTACAATGACACTGTGACA
TTCAAGTGTTATAGTGGATTTACTTTGAAGGGCAGTAGTCAGATTCGTTGCAAAGCTGATAACACCTGGGATCCT
GAAATACCAGTTTGTGAAAAGAAACATGCCAGCATGTGAGACAGAGTCTTCAAGAACTTCCAGCTGGTTACGT
GTGGAGCTAGTTAATACGTCTGCCAAGATGGGTACCAGTTGACTGGACATGCTTATCAGATGTGTCAAGATGCT
GAAAATGGAATTTGGTTCAAAAAGATTCCACTTTGTAAAGTTATTCACTGTACCCCTCCACCAGTGATTGTCAAT
GGGAAGCACACAGGGATGATGGCAGAAAACCTTTCTATATGGAAATGAAGTCTCTTATGAATGTGACCAAGGATTC
TATCTCCTGGGAGAGAAAAAATTGCAGTGCAGAAGTGATTCTAAAGGACATGGATCTTGGAGCGGGCCTTCCCCA
CAGTGTCTTACGATCTCCTCTGTGACTCGCTGCCCTAATCCAGAAGTCAAACATGGGTACAAGCTCAATAAAACA
CATTCTGCATATTTCCACAATGACATAGTGTATGTTGACTGCAATCCTGGCTTCATCATGAATGGTAGTCGCGTG
ATTAGGTGTCTACTGATAACACATGGGTGCCAGGTGTGCCAACTTGTATGAAAAAGCCTTCATAGGGTGTCCA
CCTCCGCCTAAGACCCCTAACGGGAACCATACTGGTGGAAACATAGCTCGATTTTCTCCTGGAATGTCAATCCTG
TACAGCTGTGACCAAGGCTACCTGCTGGTGGGAGAGGCACTCCTTCTTGCACACATGAGGGAACCTGGAGCCAA
CCTGCCCCCTCATTGTAAAGAGGTAACTGTAGCTCACCAGCAGATATGGATGGAATCCAGAAAGGGCTGGAACCA
AGGAAAATGTATCAGTATGGAGCTGTTGTAACTCTGGAGTGTGAAGATGGGTATATGCTGGAAGGCAGTCCCCAG
AGCCAGTGCCAATCGGATCACCAATGGAACCTCCCCTGGCGGTTTGCAGATCCCGTTCACTTGCTCCTGTCTT
TGTGGTATTGCTGCAGGTTTGATACTTCTTACCTTCTTGATTGTCAATTACCTTATACGTGATATCAAACACAGA
GAACGCAATTATTATACAGATACAAGCCAGAAAGAAGCTTTTCAATTTAGAAGCACGAGAAGTATATTCTGTTGAT
CCATACAACCCAGCCAGCTGATCAGAAGACAACTGGTGTGTGCCTCATTGCTTGAATTCAGCGGAATATTGAT
TAGAAAGAACTGCTCTAATATCAGCAAGTCTCTTTATATGGCCTCAAGATCAATGAAATGATGTCTATAAGCGAT
CACTTCTATATGCACTTATTCTCAAGAAGAACATCTTTATGGTAAAGATGGGAGCCAGTTTCACTGCCATATA
CTCTTCAAGGACTTTCTGAAGCCTCACTTATGAGATGCCTGAAGCCAGGCCATGGCTATAAACAATTACATGGCT
CTAAAAAGTTTTGCCCTTTTTAAGGAAGGCACTAAAAAGAGCTGTCTGGTATCTAGACCCATCTTCTTTTTGAA
ATCAGCATACTCAATGTTACTATCTGCTTTTGGTTATAATGTGTTTTTAATTATCTAAAGTATGAAGCATTTTCT

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FIGURE 2017B

GGGGTTATGATGGCCTTACCTTTATTAGGAAGTATGGTTTTATTTTGATAGTAGCTTCCTCCTCTGGTGGTGTTA
ATCATTTCATTTTACCCTTACTGTTTGAGTTTCTCTCACATTACTGTATATACTTTGCCTTTCCATAATCACTC
AGTGATTGCAATTGACACAAGTTTTTTTTAAATTATGGGAATCAAGATTTAATCCTAGAGATTTGGTGTACAATTC
AGGCTTTGGATGTTTCTTTAGCAGTTTTGTGATAAGTTCTAGTTGCTTGTAATAATTCACCTTAATAATGTGTACA
* ATCATTCAATAAATTGTAATTGTAAAGAAAA

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FIGURE 2018

MGAAGLLGVFLALVAPGVLGISCGSPPPILNGRISYYSTPIAVGTVIRYSCSGTFRLIGEKSLLCITKDKVDGTW
DKPAPKCEYFNKYSSCPEPIVPGGYKIRGSTPYRHGDSVTFACKTNFSMNGNKSVMWCQANNMWGPTLPTCVSVF
PLECPALPMIHNGHHTSENVGSIAPGLSVTYSCESGYLLVGEKIINCLSSGKWSAVPPTCEEARKSLGRFPNGK
VKEPPILRVGVTANFFCDEGYRLQGPPSSRCVIAGQGVAWTKMPVCEEIFCPSPPPILNGRHIGNSLANVSYGSI
VTYTCDPDPEEGVNFILIGESTLRCTVDSQKTGTWSGPAPRCCELSTSAVQC PHPQILRGRMVSGQKDRYTYNDTV
IFACMFGFTLKGSQIRCNAGTWEPSAPVCEKECQAPPNINLGQKEDRHMVRFDPGTSIKYSCNPGYVLVGEES
IQCTSEGVWTPPVPQCKVAACEATGRQLLTKPQHOFVRPDVNSSCGEGYKLSGSVYQECQGTIPWFMEIRLCKEI
TCPPPPVIYNGAHTGSSLEDFPYGTTVTYTCNPGPERGVEFSLIGESTIRCTSNDQERGTWSGPAPLCKLSLLAV
QCSHVHIANGYKISGKEAPYFYNDTVTFKCYSGFTLKGSQIRCKADNTWDPEIPVCEKETCQHVRQSLQELPAG
SRVELVNTSCQDGYQLTGHAQMCQDAENGIWFKKIPLCKVIHCHPPPVIIVNGKHTGMMANFLYGNEVSYECDQ
GFYLLGEKKLQCRSDSKGHGSWSGSPSQCLRSPPVTRCPNPEVKHGYKLNKTHSAYSHNDIVYVDCNPGFIMNGS
RVIRCHTDNTWVPGVPTCMKKAFICPPPPKTPNGNHTGGNIARFSPGMSILYSCDQGYLLVGEALLLCTHEGTW
SQPAPHCKEVCNCSPPADMDGIQKGLEPRKMYQYGAVVTLECEDGYMLEGSPQSQSQSDHQWNPPLAVCRSRSLAP
VLCGIAAGLILLTFLIVITLYVISKHRERNYYTDTSQKEAFHLEAREVYSVDPYNPAS

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FIGURE 2019A

CCCAGCCCAAGTTTTTAGGGTGGGGATCCAGACTGGTTATACGTACCTTCAGTCCTTCTCCCAGAGGAAGGCAGA
AACACCTCAAAGCCTGCATGTAAGAACATCTACTGAGAAATTATTTAATCAGACACCAGCTGAGTGGGAGAAAG
GAAAAGAACAGAGAAGAACAACAAAACCTCCCTTGGTCTTGGATGTAAGAGAATCCAGCAGAGATGGACTGGAGT
TTCTTCAGAGTAGTTGCAGTGCTGTTTCTTTCTGGTGGTGGTAGAAGTTAACAGTGAATCCGAATCCAGGTA
AGAGATTATAACACTAAAAATGGCACCATCAAATGGCATTCAATCCGAAGGCAGAAACGTGAATGGATCAAGTTC
GCAGCAGCCTGTCGTGAAGGTGAAGACAACCTCAAAGAGGAACCCAATCGCCAAAATTCAGTCAAGTTGTGCTGCA
AACCAGCAAGTTACATACCGCATCTCTGGAGTAGGAATTGATCAGCCACCATATGGGATCTTTGTCATTAATCAG
AAAACCTGGTGAAATTAATATAACATCCATAGTTGATCGAGAGGTCACTCCTTTCTTATTATCTACTGCCGAGCT
CTGAACCTCAATGGGCCAAGATTTAGAGAGGCCTCTAGAGCTCAGAGTCAGGGTTTTGGATATAAATGACAACCTT
CCAGTGTTTTCAATGGCTACATTTGCAGGACAAATAGAAGAAAATTCTAATGCAAATACACTGGTGATGATACTC
AATGCTACTGACGCAGATGAACCGAACAATTTGAACTCAAAAATAGCCTTCAAGATTATAAGACAAGAACCTTCA
GATTCACCAATGTTTATTATCAACAGAAATACTGGAGAAATTCGAACGATGAATAATTTTCTAGACAGAGAGCAA
TACGGCCAGTATGCTCTTGCTGTAAGAGGCTCTGACCGAGATGGTGGGGCAGATGGCATGTGAGCGGAATGTGAG
TGCAACATTAAAACTCTCGATGTCAATGATAATATCCCTTACATGGAACAGTCTTCATATACCATAGAAATTCAA
GAAAATACTCTAAATTCAAATTTGCTCGAGATTAGAGTAATTGATTGGATGAAGAGTTCTCAGCTAACTGGATG
GCAGTAATTTCTTTATCTCTGGAAATGAAGGAAATGGTTTTGAGATAGAAATGAATGAAAAGAACAATGTGGGA
ATTTTAAAGGTTGTTAAGCCCTTAGATTATGAAGCTATGCAGAGTCTGCAACTCAGTATTGGTGTGAGAAATAAA
GCTGAATTTTCATCATTCAATTATGTCTCAATATAAACTGAAAGCATCTGCAATTTCTGTGACTGTGTTAAATGTA
ATTGAAGGCCAGTGTTCGTCCAGGTTCAAAGACATATGTTGTAAGTGGTAATATGGGATCAAATGATAAAGTG
GGAGACTTTGTAGCTACTGACCTGGACACAGGTAGACCTTCAACGACTGTTAGGTATGTAATGGGAAATAATCCA
GCTGACCTGCTAGCTGTTGATTCAAGAACAGGCAAACCTCACTTTGAAAAATAAAGTTACCAAGGAACAGTACAAT
ATGCTCGGAGGAAAATACCAAGGAACGATTCTCTCTATAGATGATAATCTTCAAAGAACTTGCAGTGGTACAAT
AATATTAACATTCAAAGTTTTGGTAATGACGACAGGACTAATACAGAGCCGAACACTAAAATTACTACCAATACT
GGCAGACAAGAAAGTACTTCTTCCACTAATATGATACCAGCACAACCTTCTACTGACTCTAGCCAAGTATATTCT
TCTGAACCCCGAAACGGAGCCAAAGATTTGTTATCAGACAATGTACATTTTGGTCCTGCTGGCATTGGACTCCTC
ATCATGGGATTCTTGGTCTTAGGATTGGTCCCATTTTTGATGATCTGTTGTGATTGTGGAGGTGCTCCTCGTAGT
GCAGCTGGCTTTGAGCCTGTTCCCGAATGTTCCAGATGGAGCAATTCATTTCATGGGCAGTAGAAGGACCACAGCCT
GAACCCAGGGATATAACCACTGTCATACCACAAATACCACCTGATAACGCAATATAATTGAATGCATTGACAAC
TCAGGAGTTTATACAAATGAGTATGGTGGCAGAGAAATGCAAGATCTGGGAGGAGGAGAGAGAATGACAGGATTT
GAACTAACAGAGGGAGTTAAAACTTCAGGAATGCCTGAGATATGTCAAGAATACTCTGGAACATTAAGAAGAAAT
TCTATGAGGGAATGTAGAGAAGGAGGTCTGAATATGAATTTTCATGGAAAGCTACTTCTGTGAGAAAGCATATGCT
TACGCAGATGAAGATGAAGGACGCCCATCTAATGACTGTTTGTCTCATATATGACATCGAAGGTGTAGGTTCCCT
GCTGGCTCTGTGGGTTGTTGTAGCTTCATTGGAGAAGACCTGGATGACAGCTTCTTGGATACCCTGGGACCTAAA
TTTAAGAAGTTGGCAGACATCAGCCTAGGAAAAGAATCATATCCAGACCTTGATCCTTCTTGGCCACCACAAAGC
ACTGAACCAAGTTTGCCCTTCTCAGGAAACAGAGCCCGTTGTTAGTGGACACCCACCAATCTCCCCACATTTCCGGC
ACTACCACAGTAATTTCTGAGAGCACCTATCCCTCGGGACCTGGTGTACTGCATCCTAAGCCTATTCTCGATCCT
CTGGGCTATGGTAATGTCACTGTGACCGAGTCTTACACCACCTCTGACACTCTGAAGCCCTCTGTGCACGTTTAC
GATAACCGACCAGCATCAAACGTGGTAGTGACAGAGAGAGTGGTCCGCCAATCTCTGGCGCTGATTTGCATGGA
ATGTTAGAGATGCCTGACTTGCGAGATGGGTGCAATGTTATAGTGACAGAAAGGGTAATAGCACCAAGCTCTAGT
CTACCCACCTCTCTGACTATCCATCATCCTAGAGAGTCTTCAAATGTGGTAGTGACAGAAAGAGTAATCCAACCA
ACTTCCGGCATGATAGGTAGTCTGAGTATGCACCCCGAGTTAGCCAATGCCACAATGTCATTGTGACAGAGAGG
GTTGTTTTCTGGTGCTGGCGTAACTGGAATTAGTGGCACCCTGGGATCAGCGGTGGCATAGGCAGCAGTGGCCTG
GTTGGCACCAGCATGGGTGCTGGGAGCGGTGCCCTGAGTGGAGCTGGCATAAGTGGTGGTGGCATTGGCCTGAGC
AGCTTGGGAGGGACAGCCAGCATTGGCCACATGAGGAGTTCCTCTGACCATCACTTTAACCAACCATTGGGTCC
GCCCTCCCTAGCACAGCTCGAAGTCGAATCACAAAGTATAGTACCGTGCAATATAGCAAGTAGTCAGGACCCAG
CTCACTTTTTTCATAGTCATTGTGGTTTAGATCCAATTCCCACCCTAAAAAACTAACAATGTGATTTATAACGCA
CAACTTCGTGCTCAGGTCACTAGGAGCAAGGTGAGAAATCACAATGAGAAAAATAAATGGAAACACCACTGCTA
GGGAGAGCTCTCCTTAGCATTCTATAAATTTTTCTTATATTAGGACTAAGGAACTAAAACCTTGAGGCAGAGTC

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FIGURE 2019B

TTCTTTGTGCCTGAGTGGCCTGTAGTCCATCTCCAGCATGTAAGTGGCCTTACGATGGCAATTGGCATCATTCTC
CTTGCTCTGTTTTGCTTTTCCATATAGCTCGAGCAAAATTCAAAAAGAACTAAATATGCAATATATGTTTCATATC
TATGGGAAAAATCTAAAATGTGTGCCAGATGCCCTGTTGGTTTCACAGATAACATAAAATAAAAATTCAACCACAG
ATTTATACAAGGGTTAACCATTTTTTTTAAAGTTTGACTACATAGTCAAGTCCACAAGCCATCAAGCACTCCTACC
TTAATTATTGCACTAGAGAAAAATAAATTCCAAATTAGGAAGTGTTTCCTAGGAGGAAAATTCCATTAGAGAGTGG
CAATAGGATGAGGTTTCTTCAGGGTAAACTAGCAATGCCTGAGCCTGAACCTTAATGTGGGGCCTCAGTTAATAT
CCCTGTGGAGTCAAGGATTCTTCTGATTCTAGTGTGTGTTTAGTGATAGATGTAGTCTTGACGAATATTGCTTAC
TGGTGAGGTTGAGGAATATCACACTCGTCTTTCCCTTTACCACTGTGGTTTTGACTTAAGAAAGCAAACTCACT
AAGTTTACTTCTCGAATTGAAGCAAGTGAGGCCTGACATGGTTGTCATCACTAGTGGCAAATGACCTTCCAAGTA
AGCAGATGGGAACTGAATTGTGTTTTCAGGTTTTGTTTTTAGTAGGTGATATTCATTTCGTATCCAGCTCTTTATT
ACATAGCTCTGAAGTTAAATGATTTACATAGGCCGAGCTGTGGACAAAAAAAAGAAGCAGCAGCTTGTAGTAT
GCTTAAGCTTTGGGGAATTTTTTTTTTAAGGGGATCTAAAAAATGTTTTTAGAACATGTAAATGTTTAATGGTG
AAAGTTGGAAAA

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FIGURE 2020

MDWSFFRVVAVLFIFLVVVEVNSEFRIQVRDYNTKNGTIKWHISIRROKREWIKFAAACREGEDNSKRNP IAKIHS
DCAANQQVITYRISGVGIDQPPYGIFVINQKTGEINITSIVDREVTFFFIIYCRALNSMGQDLERPLELRVRVLDI
NDNPPVFSMATFAGQIEENSANANTLVMILNATDADEPNNLNSKIAFKIIRQEPSDSPMFIINRNTGEIRTMNNFL
DREQYQYALAVRGSDRDGGADGMSAECECNILKILVDNDNIPYMEQSSYTIETIQENTLNSNLEIRVIDLDDEFS
ANWMAVIFFISGNEGNWFEIEMNERTNVGILKVVKPLDYEAMQSLQLSIGVRNKAEFHHSIMSQYKLKASAI SVT
VLNVIEGPVFRPGSKTYVVTGNMGSDKVGDFVATDLD TGRPSTTVRYVMGNNPADLLAVDSRTGKLT LKNKVTK
EQYNMLGGKYQGTILSIDDNLQRTCTGTININIQSFGNDDRTNTEPNTKITTTNTGRQUESTSSTNYDTSTTSTDSS
QVYSSEPGNGAKDLLSDNVHFGPAGIGLLIMGFLVLGLVPFLMICCD CGGAPRSAAGFEPVPECSDGAIH SWAVE
GPQPEPRDITTVIPQIPPDNANIIECIDNSGVYTNEYGGREMQLGGGERMTGFELTEGVKTSGMPEICQEYSGT
LRRNSMRECREGGLNMNFMESYFCQKAYAYADEDEGRPSNDCLLIYDIEGVGSPAGSVGCCSFIGEDLDDSF LDT
LGPKFKKLADISLGKESYPDLDP SWPPQSTEPVCLPQETEPVVS GHFPISP HFGTTTTVISESTYPSGPGVLHPKP
ILDPLGYGNVTVTESYTTSDTLKPSVHVHDNRPASNVVVTERVVGPISGADLHG MLEMPDLRDGSNVIVTERVIA
PSSSLPTSLTIHHPRESSNVVVTERVIQPTSGMIGSLSMHPELANAHNVIVTERVVSGAGVTGISGTTGISGGIG
SSGLVGTSMGAGSGALSGAGISGGGIGLSSLGGTASIGHMRSSDHHFNQTIGSASPSTARSRITKYSTVQYSK

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FIGURE 2021

GCCCCGCCGCCGGCAGTGGACCGCTGTGCGCGAACCCTGAACCCTACGGTCCCGACCCGCGGGCGAGGCCGGGTA
CCTGGGCTGGGATCCGGAGCAAGCGGGCGAGGGCAGCGCCCTAAGCAGGCCCGGAGCGATGGCAGCCTTGATGAC
CCCCGGAACCGGGGCCCCACCCGCGCCTGGTGA CTTCCTCGGGGAAGGGAGCCAGGGACTTCCCGACCCTTCGCC
AGAGCCCAAGCAGCTCCCGGAGCTGATCCGCATGAAGCGAGACGGAGGCCGCTGAGCGAAGCGGACATCAGGGG
CTTCGTGGCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCACAGATCGGGGCCATGCTGATGGCCATCCGACTTCG
GGGCATGGATCTGGAGGAGACCTCGGTGCTGACCCAGGCCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGA
GGCCTGGCGCCAGCAGCTTGTGGACAAGCATTCCACAGGGGGTGTGGGTGACAAGGTCAGCCTGGTCCTCGCACC
TGCCCTGGCGGCATGTGGCTGCAAGGTGCCAATGATCAGCGGACGTGGTCTGGGGCACACAGGAGGCACCTTGGA
TAAGCTGGAGTCTATTCTGGATTCAATGTCATCCAGAGCCCAGAGCAGATGCAAGTGCTGCTGGACCAGGCGGG
CTGCTGTATCGTGGGTCAGAGTGAGCAGCTGGTTCTGCGGACGGAATCCTATATGCAGCCAGAGATGTGACAGC
CACCGTGGACAGCCTGCCACTCATCACAGCCTCCATTCTCAGTAAGAACTCGTGGAGGGGCTGTCCGCTCTGGT
GGTGGACGTTAAGTTCGGAGGGGCGCCGCTCTCCCCAACCAGGAGCAGGCCCGGGAGCTGGCAAAGACGCTGGT
TGGCGTGGGAGCCAGCCTAGGGCTTCGGGTGCGGGCAGCGCTGACCGCCATGGACAAGCCCCCTGGGTGCTGCGT
GGGCCACGCCCTGGAGGTGGAGGAGGCGCTGCTCTGCATGGACGGCGCAGGCCCGCCAGACTTAAGGGACCTGGT
CACCACGCTCGGGGGCGCCCTGCTCTGGCTCAGCGGACACGCGGGGACTCAGGCTCAGGGCGCTGCCCGGGTGGC
CGCGGCGCTGGACGACGGCTCGGCCCTTGCCCGCTTCGAGCGGATGCTGGCGGCGCAGGGCGTGGATCCCGGTCT
GGCCCGAGCCCTGTGCTCGGGAAGTCCCGCAGAACGCCGGCAGCTGCTGCCTCGCGCCCGGGAGCAGGAGGAGCT
GCTGGCGCCCGCAGATGGCACCGTGGAGCTGGTCCGGGCGCTGCCGCTGGCGCTGGTGTGACGAGCTCGGGGC
CGGGCGCAGCCGCGCTGGGGAGCCGCTCCGCCCTGGGGGTGGGCGCAGAGCTGCTGGTGTGACGCTGGGTGAGAGGCT
GCGCCGTGGGACCCCTGGCTCCGCGTGCACCGGGACGGCCCCGCGCTCAGCGGCCCGCAGAGCCCGCGCCCTGCA
GGAGGCGCTCGTACTCTCCGACCGCGCGCCATTGCGCGCCCCCTCGCCCTTCGCAGAGCTCGTTCTGCCGCCGCA
GCAATAAAGCTCCTTTGCCGCGAAA

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FIGURE 2022

MAALMTPGTGAPPAPGDFSSEGSQGLPDPSPPEPKQLPELIRMKRDGGRLSEADIRGFVAAVVNGSAQGAQIGAML
MAIRLRGMDLEETSVLTQALAQSGQQLWPEAWRQQLVDKHSTGGVGDKVSLVLAPALAACGCKVPMISGRGLGH
TGGTLDKLESIPGFNVIQSPEQMQLLDQAGCCIVGQSEQLVPADGILYAARDVTATVDSLPLITASILSKKLVE
GLSALVVDVKFGGAAVFPNQEQARELAKTILVGVGASLGLRVAAALTAMDKPLGRCVGHAEVEEALLCMDGAGPP
LVTTLGGALLWLSGHAGTQAQGAARVAAALDDGSALGRFERMLAAQGVDPGLARALCSGSPAERRQLLPRA
ELLAPADGTVELVRALPLALVLHELGAGRSRAGEPLRLGVGAELLVDVGQRLRRGTPWLRVHRDGPALSGP
LQEAALVLSRAPFAAPSPFAELVLPQQ

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FIGURE 2023

CCTGTTTGGGACACTGGACTCCCGTGAGCTGGAAGGAACAGATTTAATATCTAGGGGCTGGGTATCCCCACATCA
CTCATTGTTGGGGGTCAAGGGACCCGGGCAATATAGTATTCTGCTCAGTGTCTGGAGATCATCTACCCAGGCTGGG
GCTTCTGGGACAGGCGAGGACCCACGGACCCTGGAAGAGCTGGTCCAGGGGACTGAACTCCCGGCATCTTTACAG
AGCAGAGCATGATCACATTCCCTGCCGCTGCTGCTGGGGCTCAGCCTGGGCTGCACAGGAGCAGGTGGCTTCGTGG
CCCATGTGGAAAGCACCTGTCTGTTGGATGATGCTGGGACTCCAAAGGATTTACATACTGCATCTCCTTCAACA
AGGATCTGCTGACCTGCTGGGATCCAGAGGAGAATAAGATGGCCCTTGCGAATTTGGGGTGCTGAATAGCTTGG
CGAATGTCTCTCACAGCACCTCAACCAAAAAGACACCCTGATGCAGCGCTTGCGCAATGGGCTTCAGAATTGTG
CCACACACACCCAGCCCTTCTGGGGATCACTGACCAACAGGACACGGCCACCATCTGTGCAAGTAGCCAAAACCA
CTCCTTTTAACACGAGGGAGCCTGTGATGCTGGCCTGCTATGTGTGGGGCTTCTATCCAGCAGAAGTGAATATCA
CGTGGAGGAAGAACGGGAAGCTTGTATGCCTCACAGCAGTGCACACAAGACTGCCAGCCCAATGGAGACTGGA
CATAACAGACCCTCTCCCATTTAGCCTTAACCCCTCTTACGGGGACACTTACACCTGTGTGGTAGAGCACATTG
GGGCTCCTGAGCCCATCCTTCGGGACTGGACACCTGGGCTGTCCCCATGCAGACCCTGAAGGTTTCTGTGTCTG
CAGTGACTCTGGGCCTGGGCCTCATCATCTTCTCTTGGTGTGATCAGCTGGCGGAGAGCTGGCCACTCTAGTT
ACACTCCTCTTCTGGGTCCAATTATTTCAGAAGGATGGCACATTTCCTAGAGGCAGAATCTTACAACCTTCCACTC
CAAGTGAGAAGGAGATTCAAACCTCAATGATGCTACCATGCCTCTCCAACATCTTCAACCCCTGACATTATCTTG
GATCCTATGGTTTCTCCATCCAATTCTTTGAATTTCCAGTCTCCCTATGTAAACTTAGCAACTTGGGGGACC
TCATTCCTGGGACTATGCTGTAAACCAAAATTATTGTCCAAGGCTATATTCTGGGATGAATATAATCTGAGGAAGG
GAGTTAAAGACCCTCCTGGGGCTCTCAGTGTGCCATAGAGGACAGCAACTGGTGATTGTTTCAGAGAAATAAACT
TTGGTGGA

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FIGURE 2024

MITFLP LLLGLSLGCTGAGGFVAHVESTCLDDAGTPKDFTYCISFNKDLLTCWDPEENKMAPCEFGVLNSLANV
LSQHLNQKDTLMQRLRNGLQNCATHIQPFWGSLTNRTRPPSVQVAKTTPFNTREPVMLACYVWGFYPAEVTITWR
KNGKLVMPHSSAHKTAQPNGDWTYQTLSHLALTPSYGDTYTCVVEHIGAPEPILRDWTPGLSPMQTLKVSVAVT
LGLGLIIFSLGVISWRRAGHSSYTPLPGSNYSEGWHIS

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FIGURE 2025

GAAGTCGCACCATGTCCATGTCACCCACGGTCATCATCCTGGCATGTCTTGGGTTCTTCTTGGACCAGAGTGTGT
GGGCACACGTGGGTCTATATGAGAAACCTTCGCTTACAGCCCGGCCGGGCCCCACGGTTCGCGCAGGAGAGAACG
TGACCTTGTCCTGCAGCTCCCAGAGCTCCTTTGACATCTACCATCTATCCAGGGAAGGGGAAGCCCATGAACCTTA
GGCTCCCTGCAGTGCCAGCATCAATGGAACATTCCAGGCCGACTTCCCTCTGGGTCCTGCCACCCACGGAGAGA
CCTACAGATGCTTCGGCTCTTTCCATGGATCTCCCTACGAGTGGTCAGACCCGAGTGACCCACTGCCTGTTTCTG
TCACAGATGCTGCTGTAATGAACCAAGAGCCTGCGGGACACAGAACAGTGAACAGGGAGGACTCTGATGAACAAG
ACCCTCAGGAGGTGACATACGCACAGTTGGATCACTGCATTTTCACACAGAGAAAAATCACTGGCCCTTCTCAGA
GGAGCAAGAGACCTTCAACAGATACCAGCGTGTGTATAGAACTTCCAAATGCTGAGCCCAGAGCGTTGTCTCCTG
CCCATGAGCACCACAGTCAGGCCTTGATGGGATCTTCTAGGGAGACAACAGCCCTGTCTCAAACCCAGCTTGCCA
GCTCTAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTC

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FIGURE 2026

MSMSPTVIILACLGFFLDQSVWAHVGLYEKPSLTARPGPTVRAGENVTLS CSSQSSFDIYHLSREGEAHELRLPA
VPSINGTFQADFP L GPATHGETYRCFGSFHGSPYEWSDP SDLPVSVTDAAVMNQEPAGHRTVNREDSDEQDPQE
VTYAQLDHCIFTQRKITGPSQRSKRPSTDTSVCIELPNAEPRALSPAHEHHSQALMGSSRETTALSQTQLASSNV
PAAGI

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FIGURE 2027

CTTAGTAACACGTTGATGAGAAATCTACTTTTTCCACTCTTGACTCACTCTGAGCCTTCACAGGGCAGTCTGCGA
AGATTGCAGGCATTGTTTGTCTTGTCTTGGATTTATGCCTTTAAATTTACCTTTTATTACACAGCTATAGCAG
GCCTTTTTATGAGACTAACCTGGCCTCTCCACTAAAGGATGTGTGACTTTCTGGGGACAGAAGAGTACAGTCCCT
GACATCACACACTGCAGAGATGGATAACCAAGGAGTAATCTACTCAGACCTGAATCTGCCCCCAAACCCAAAGAG
GCAGCAACGAAAACCTAAAGGCAATAAAAGCTCCATTTTAGCAACTGAACAGGAAATAACCTATGCGGAATTAAA
CCTTCAAAAAGCTTCTCAGGATTTTCAAGGGAATGACAAAACCTATCACTGCAAAGATTTACCATCAGCTCCAGA
GAAGCTCATTGTTGGGATCCTGGGAATTATCTGTCTTATCTTAATGGCCTCTGTGGTAACGATAGTTGTTATTCC
CTCTACATTAATACAGAGGCACAACAATTCTTCCCTGAATACAAGAACTCAGAAAGCACGTCATTGTGGCCATTG
TCCTGAGGAGTGGATTACATATTCCAACAGTTGTTACTACATTGGTAAGGAAAGAAGAACTTGGGAAGAGAGTTT
GCTGGCCTGTACTTCGAAGAACTCCAGTCTGCTTTCTATAGATAATGAAGAAGAAATGAAATTTCTGTCCATCAT
TTCACCATCCTCATGGATTGGTGTGTTTCGTAACAGCAGTCATCATCCATGGGTGACAATGAATGGTTTGGCTTT
CAAACATGAGATAAAAGACTCAGATAATGCTGAACTTAACTGTGCAGTGCTACAAGTAAATCGACTTAAATCAGC
CCAGTGTGGATCTTCAATAATATATCATTGTAAGCATAAGCTTTAGAGGTAAAGCGTTTGCATTTGCAGTGCATC
AGATAAATTGTATATTTCTTAAATAGAAATATATTATGATTGCATAAATCTTAAATGAATTATGTTATTTGCT
CTAATAAGAAAATTCTAAATCAATTATTGAAACAGGATACACACAATTACTAAAGTACAGACATCCTAGCATTG
TGTGCGGCTCATTTTGCTCAACATGGTATTTGTGGTTTTTCAGCCTTTCTAAAAGTTGCATGTTATGTGAGTCAGC
TTATAGGAAGTACCAAGAACAGTCAAACCCATGGAGACAGAAAGTAGAATAGTGGTTGCCAATGTCTGAGGGAGG
TTGAAATAGGAGATGACCTCTAACTGATAGAACGTTACTTTGTGTCTGTGATGAAAACCTTTCTAAATTTAGTAGT
GGTGATGGTTGTAACCTCTGCGAATATACTAAACATCATTGATTTTTAATCATTTTAAGTGCATGAAATGTATGCT
TTGTACACGACACTTCAATAAAGCTATCCAGAAAAA

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FIGURE 2028

MDNQGVIIYSDLNLPNPKRQQRKPKGNKSSILATEQEITYAELNLQKASQDFQGNDKTYHCKDLP
SAPEKLIVGI
LGIICLILMASVVTIVVIPSRHCGHCPEEWITYSNSCYIYIGKERRTWEESLLACTSKNSSLLS
IDNEEEMKFLSI
ISPSSWIGVFRNSSHHPWVTMNGLAFKHEIKSDNAELNCAVLQVNRLKSAQCGSSIIYHCKHKL

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FIGURE 2029

TCTCCCTCCGCCTCCCGAGCACCAGCGCGCTCTGAGCTGCCCCCAGGGTCCCTCCCCCGCCGCCAGCAGCCCAT
TGGAGGGAGGAAGTAAGGGAAGAGGAGAGGAAGGGGAGCCGGACCGACTACCCAGACAGAGCCGGTGAATGGGT
TGTGGTGACCCCCGCCCCCACCACCCCTCCCTTCCCACCGACCCCCAACCCCATCCCCAGTTCGAGCCGCC
GCCCCAAAGGCCGGGCCGTCGTCTTAGGAGGAGTCGCCGCCGCCACCTCCGCCATGGAGCTGATCACCATT
TCGAGAAGACCGTGTCTCCCGATCGGCTGGAGCTGGAAGCGGCGCAGAAAGTTCTGGAGCGTGC GGCCGTGGAGA
ACCTGCCCACTTTCCTTGTGGAAGTGTCCAGAGTGTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAG
CTGGTCTACAAATCAAGAACTCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTG
CTATTGATGCTAATGCTCGACGAGAAGTCAAGAACTATGTTTTGCAGACATTGGGTACAGAACTTACCGGCCTA
GTTCTGCCTCACAGTGTGTGGCTGGTATTGCTTGTGCAGAGATCCCAGTAAACCAGTGGCCAGAACTCATTCTC
AGCTGGTGGCCAAATGTCACAAACCCCAACAGCACAGAGCACATGAAGGAGTCGACATTGGAAGCCATCGGTTATA
TTTGCCAAGATATAGACCCAGAGCAGCTACAAGATAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGA
GGAAGAAGAGCCTAGTAATAATGTGAAGCTAGCTGCTACGAATGCACCTCCTGAACCTATTGGAGTTACCAAAG
CAAACCTTGATAAAGAGTCTGAAAGGCACCTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGA
GGGTACGAGTGGCTGCTTTACAGAACTCTGGTGAAGATAATGTCTTATATTATCAGTACATGGAGACATATATGG
GTCCTGCTCTTTTTGCAATCACAATCGAAGCAATGAAAAGTGACATTGATGAGGTGGCTTTACAAGGGATAGAAT
TCTGGTCCAATGTCTGTGATGAGGAAATGGATTTGGCCATTGAAGCTTCAGAGGCAGCAGAAACAAGGACGGCCCC
CTGAGCACACCAGCAAGTTTTATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCCTCACACAGACACTAATA
AACAGGACGAAAATGATGATGACGATGACTGGAACCCCTGCAAAGCAGCAGGGGTGTGCCTCATGCTTCTGGCCA
CCTGCTGTGAAGATGACATTGTCCCATGTCTCTCCCTTCATTAAAGAACACATCAAGAACCCAGATTGGCGGT
ACCGGGATGCAGCAGTGATGGCTTTTGGTTGTATCTTGAAGGACCAGAGCCCAGTCAGCTCAAACCACTAGTTA
TACAGGCTATGCCCACCCTAATAGAAATTAATGAAAGACCCAGTGTAGTTGTTTCGAGATACAGCTGCATGGACTG
TAGGCAGAATTTGTGAGCTGCTTCTGAAGCTGCCATCAATGATGTCTACTTGGCTCCCCTGCTACAGTGTCTGA
TTGAGGGTCTCAGTGCTGAACCCAGAGTGGCTTCAAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGCTGCTT
ATGAAGCTGCAGACGTTGCTGATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTTCATTGAACTCATAG
TTCAGAAGCTCCTAGAGACTACAGACAGACCTGATGGACACCAGAAACAACCTGAGGAGTTCTGCATATGAATCTC
TGATGGAATTTGTGAAAACAGTGCCAAGGATTGTTATCCTGCTGTCCAGAAAACGACTTTGGTCATCATGGAAC
GACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTTCAATGACCTTCAGT
CTTTACTCTGTGCAACTCTTCAGAATGTTCTTCGGAAGTGCAACATCAAGATGCTTTCAGATCTCTGATGTGG
TTATGGCCTCCCTGTTAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAG
TTAGCACACTGGTGGAAAGTGTGGGTGGTGAATTCCTCAAGTACATGGAGGCCCTTAAACCCCTTCTGGGCATTG
GATTAAAAAATTATGCTGAATACCAGGTTTGTGGTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGC
AATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGAAAATTTGGGGAATGAGAAGTCCACA
GGTCTGTGAAGCCGAGATTCTGTCAAGTGTGGTGAATTTGCTGATATTGCCCTTGCTATTGGAGGAGAGTTAAAAAATACT
TAGAGGTTGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCCAGGTGGACAAGTCAGACTATGACATGGTGGATT
ATCTGAATGAGCTAAGGGAAAGCTGCTTGGAAAGCCTATACTGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGA
ACGTACACCCGGATGTGATGCTGGTACAACCCAGAGTAGAATTTATTCTGTCTTTCATTGACCACATTGCTGGAG
ATGAGGATCACACAGATGGAGTAGTAGCTTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTGTTGGGAAGG
ATGTACTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTTAACTGAAGGGCGGAGATCGAAGACTAACA
AAGCAAAAACCCCTTGCTACATGGGCAACAAAAGAACTGAGGAACTGAAGAACCAAGCTTGATCTGTTACCATTG
GGATGATAACCTGAGGACCCCCACTGGAAATCTCCCATCTTTGAAAACCTGGAAGTGAGGAGTGTGCACGGAT
GCTGAATGTTTGGGAATGAGAGGATGAGTGAGTGAGGCTTGAACACACACCACATTGAAAATCCTGCCACAGCAG
CAGCCGCAGCCGCAACAGCAGCGCTGTTAGTGAGCTAAGTAAGCACTGACTTCGTAGAAAACCATACATCGGC
CATCTTGGAAAAGAGAAAAACAATGGAGTTACTTATTTAAAAA

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FIGURE 2030

MELITILEKTVSPDRLELEAAQKFLERAAVENLPTFLVELSRVLNPGNSQVARVAAGLQIKNSLTSKDPDIKAQ
YQQRWLAI DANARREVKNYVLQTLGTETYPSSASQCVAGIACAEIPVNQWP ELIPQLVANVTNPNSTEHMKEST
LEAIGYICQDIDPEQLQDKSNEILTAIIQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEA
TQCPDTRVRVAALQNLVKIMSLYYQYMETYMGPAIFAITEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA
AEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDWNPCKAAGVCLMLLATCCEDDIVPHVLPFIKEHI
KNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLA
PLLQCLIEGLSAEPRVASNVCWAFSSLAEAA YEADVADDQEEPATYCLSSSFELIVQKLLTETDRPDGHQNNLR
SSAYESLMEIVKNSAKDCYPVQKTTLVIMERLQQVLQMESHIQSTSDRIQFNDLQSLLCATLQNVLRKVQHODA
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFLGIGLKNYA EYQVCLAAVGLVG
DLCRALQSNII PFCDEVMLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQVDKS
DYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDL
CTAFGKDV LKLVEARPMIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

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FIGURE 2031

GGGCGTGATTTGAGCCCCGTTTTATTTTCTGTGAGCCACGTCCTCCTCGAGGGGGTCAATCTGGCCAAAAGGAG
TGATGCGCTTCGCCTGGACCGTGCTCCTGCTCGGGCCTTTGCAGCTCTGCGCGCTAGTGCACTGCGCCCCCTCCCG
CCGCCGGCCAACAGCAGCCCCCGCGCGAGCCGCCGGCGGCTCCGGGCGCCTGGCGCCAGCAGATCCAATGGGAGA
ACAACGGGCAGGTGTTGAGCTTGCTGAGCCTGGGCTCACAGTACCAGCCTCAGCGCCGCGGGACCCGGGCGCCG
CCGTCCCTGGTGAGCCAACGCCTCCGCCAGCAGCCCCGCACTCCGATCCTGCTGATCCGCGACAACCGCACCG
CCGCGGCGCGAACGCGGACGGCCGGCTCATCTGGAGTCACCGCTGGCCGCCCCAGGCCACCGCCCGTCACTGGT
TCCAAGCTGGCTACTCGACATCTAGAGCCCGCAACGTGGCGCCTCGCGCGCGGAGAACCAGACAGCGCCGGGAG
AAGTTCCTGCGCTCAGTAACCTGCGGCCGCCAGCCGCGTGGACGGCATGGTGGGCGACGACCCTTACAACCCCT
ACAAGTACTCTGACGACAACCCTTATTACAATACTACTACGATACTTATGAAAGGCCAGACCTGGGGGCAGGTACC
GGCCCCGATACGGCACTGGCTACTTCCAGTACGGTCTCCAGACCTGGTGGCCGACCCCTACTACATCCAGGCGT
CCACGTACGTGCAGAAGATGTCCATGTACAACCTGAGATGCGCGGCGGAGGAAAACCTGTCTGGCCAGTACAGCAT
ACAGGGCAGATGTCAGAGATTATGATCACAGGGTGCTGCTCAGATTTCCCCAAAGAGTGAAAAACCAAGGGACAT
CAGATTTCTTACCCAGCCGACCAAGATATTCTGGGAATGGCACAGTTGTCTCAACATTACCACAGTATGGATG
AGTTTAGCCACTATGACCTGCTTGATGCCAACACCCAGAGGAGAGTGGCTGAAGGCCACAAAGCAAGTTTCTGTC
TTGAAGACACATCCTGTGACTATGGCTACCACAGGCGATTTGCATGTACTGCACACACACAGGGATTGAGTCCTG
GCTGTTATGATACCTATGGTGCAGACATAGACTGCCAGTGGATTGATATTACAGATGTAAAACCTGGAACTATA
TCCTAAAGGTCAGTGTAACCCAGCTACCTGGTTCTGAATCTGACTATACCAACAATGTTGTGCGCTGTGACA
TTCGCTACACAGGACATCATGCGTATGCCTCAGGCTGCACAATTCACCGTATTAGAAGGCAAAGCAAACTCCC
AATGGATAAATCAGTGCCTGGTGTCTGAAGTGGGAAAAAATAGACTAATTCAGTAGGATTTATGTATTTTGAA
AAAGAGAACAGAAAACAACAAAAGAATTTTGTGTTGGACTGTTTTCAATAACAAAGCACATAACTGGATTTTGAA
CGCTTAAGTCAATCATTACTTGGAATTTXTAATGTTTATTATTTACATCAACTTTGTGAATTAACACAGTGTTT
CAATTCTGTAATTTTCATATTTGACTCTTT

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FIGURE 2032

MRFAWTVLLLGPLQLCALVHCAPPAAGQQQPPREPPAAPGAWRQQIQWENNGQVFSLLSLGSQYQPQRRRDPGAA
VPGAANASAQQRTPILLIRDNRATAARTRTAGSSGVTAGRPRPTARHWFQAGYSTSRARERGASRAENQTAPGE
VPALSNLRPPSRVDGMVGDDPYNPYKYSDDNPYNNYDYTYERPRPGGRYRPGYGTGYFYGLPDLVADPYIYIQAS
TYVQKMSMYNLRCAAEEENCLASTAYRADVRDYDHRVLLRFPQRVKNQGTSDFLPSRPRYSWEWHSCHQHYHSMDE
FSHYDLLDANTQRRVAEGHKASFLEDTSCDYG YHRRFACTAHTQGLSPGCYD TYGADIDCQWIDITDVKPGNYI
LKVSVNPSYLVPESDYTNNVVRCDIRYTGHHAYASGCTISPY

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FIGURE 2033

CAGTCTCAATGGGGGCACTGGGGCTGGAGGGCAGGGGTGGGAGGCTCCAGGGGAGGGGTTCCTCCTGCTAGCTG
TGGCAGGAGCCACTTCTCTGGTGACCTTGTTGCTGGCGGTGCCTATCACTGTCTGGCTGTGCTGGCCTTAGTGC
CCCAGGATCAGGGAGGACTGGTAACGGAGACGGCCGACCCCGGGGCACAGGCCCAGCAAGGACTGGGGTTTTCAGA
AGCTGCCAGAGGAGGAGCCAGAAACAGATCTCAGCCCCGGGCTCCCAGCTGCCCACCTCATAGGCGCTCCGCTGA
AGGGGCAGGGGCTAGGCTGGGAGACGACGAAGGAACAGGCGTTTCTGACGAGCGGGACGCAGTTCTCGGACGCCG
AGGGGCTGGCGCTCCCGCAGGACGGCCTCTATTACCTCTACTGTCTCGTCGGCTACCGGGGCGGGGCGCCCCCTG
GCGGCGGGGACCCCCAGGGCCGCTCGGTACGCTGCGCAGCTCTCTGTACCGGGCGGGGGCGCCTACGGGCCGG
GCACTCCCGAGCTGCTGCTCGAGGGCGCCGAGACGGTGACTCCAGTGCTGGACCCGGCCAGGAGACAAGGGTACG
GGCCTCTCTGGTACACGAGCGTGGGGTTTCGGCGGCCTGGTGCAGCTCCGGAGGGGCGAGAGGGTGTACGTCAACA
TCAGTCACCCCGATATGGTGGACTTCGCGAGAGGGAAGACCTTCTTTGGGGCCGTGATGGTGGGGTGAGGGAATA
TGAGTGCGTGGTGCGAGTGCGTGAATATTGGGGGCCGGACGCCCAGGACCCCATGGCAGTGGGAAAAATGTAGG
AGACTGTTTGAAATTGATTTTGAACCTGATGAAAATAAAGAATGGAAGCTTCAGTGCTGCCGATAAA

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FIGURE 2034

MGALGLEGRGGRLQGRGSLLLAVAGATSLVTLLLVAPITVLAVLALVPQDQGGLGFRSCQRRSQKQISAPGSQLP
TS

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FIGURE 2035

CGGCCAGCACACCCCGGCACCTCCTCTGCGGCAGCTGCGCCTCGCAAGCGCAGTGCCGCAGCGCACGCCGGAGTG
GCTGTAGCTGCCTCGGCGCGGCTGCCGCCCTGCGCGGGCTGTGGGCTGCGGGCTGCGCCCCGCTGCTGGCCAGC
TCTGCACGGCTGCGGGCTCTGCGGCGCCCGGTGCTCTGCAACGCTGCGGCGGGCGGCATGGGATAACGCGGCCAT
GGTGCGCCGAGATCGCCTCCGCAGGATGAGGGAGTGGTGGGTCCAGGTGGGGCTGCTGGCCGTGCCCTGCTTGC
TGCGTACCTGCACATCCCACCCCTCAGCTCTCCCTGCCCTTCACTCATGGAAGTCTTCAGGCAAGTTTTTCAC
TTACAAGGGACTGCGTATCTTCTACCAAGACTCTGTGGGTGTGGTTGGAAGTCCAGAGATAGTTGTGCTTTTACA
CGGTTTTCCAACATCCAGCTACGACTGGTACAAGATTGGAAGGGTCTGACCTTGAGGTTTCATCGGGTGATTGC
CCTTGATTTCTTAGGCTTTGGCTTCAGTGACAAACCGAGACCACATCACTATTCCATATTTGAGCAGGCCAGCAT
CGTGGAAGCGCTTTTGCGGCATCTGGGGCTCCAGAACCGCAGAATCAACCTTCTTTCTCATGACTATGGAGATAT
TGTGCTCAGGAGCTTCTCTACAGGTACAAGCAGAATCGATCTGGTCGGCATAACCATAAAGAGTCTCTGTCTGTC
AAATGGAGGTATCTTTCTGAGACTACCCGTCCACTCCTTCTCCAAAAGCTACTCAAAGATGGAGGTGTGCTGTC
ACCCATCCTCACACGACTGATGAACCTTCTTGTATTCTCTCGAGGTCTCACCCAGTCTTTGGGCCGTATACTCG
GCCCTCTGAGAGTGAGCTGTGGGACATGTGGGCAGGGATCCGCAACAATGACGGGAACCTTAGTCATTGACAGTCT
CTTACAGTACATCAATCAGAGGAAGAAGTTCAGAAGGCGCTGGGTGGGAGCTCTTGCCCTGTGTAACATATCCCCAT
TCATTTTATCTATGGGCCATTGGATCCTGTAAATCCCTATCCAGAGTTTTTGGAGCTGTACAGGAAAACGCTGCC
GCGGTCCACAGTGTCGATTCTGGATGACCACATTAGCCACTATCCACAGCTAGAGGATCCCATGGGCTTCTTGAA
TGCAATATATGGGCTTCATCAACTCCTTCTGAGCTGGAAAGAGTAGCTTCCCTGTATTACCTCCCCCTACTCCCTTA
TGTGTTGTGATTCCACTTAGGAAGAAATGCCCAAAGAGGTCTGGCCATCAAACATAATTCTCTCACAAAGTC
CACTTTACTCAAATTGGTGAACAGTGTATAGGAAGAAGCCAGCAGGAGCTCTGACTAAGGTTGACATAATAGTCC
ACCTCCCATTAATTTGATATCTGATCAAATGTATAGACTTGGCTTTGTTTTTTGTGCTATTAGGAAATTCTGATG
AGCATTACTATTCACTGATGCAGAAAGACGTTCTTTTGCAAAAAGACTTTTTTTTAACTTTGGACTTCTCTG
AAATATTTAGAAGTGCTAATTTCTGGCCCACCCCAACAGGAATTCTATAGTAAGGAGGAGGAGAAGGGGGGCTC
CTTCCCTCTCCTCGAATGACGTTATGGGCACATGCCTTTTAAAAGTTCTTTAAGCAACACAGAGCTGAGTCCTCT
TTGTCATACCTTTGGATTTAGTGTTCATCAGCTGTTTTTAGTTATAAACATTTTGTTAAAATAGATATTGGTTT
AAATGATACAGTATTTTAGGTATGATTTAAGACTATGATTTACCTATACATTATATATATTTTATAAAGATACTA
AACCAGCATACCCTTACTCTGCCAGAGTAGTGAAGCTAATTAACACGTTTGGTTTCTGAATAAATTGAACATAA
TCCAACTATTTCTTAAATCACAGGACATTAAGGACCAATAGCATCTGTGCCAGAGATGTACTGTTATTAGCTG
GGAAGACCAATTCTAACAGCAAATAACAGTCTGAGACTCCTCATACCTCAGTGGTTAGAAGCATGTCTCTCTTGA
GCTACAGTAGAGGGGAAGGGATTGTTGTGTAGTCAAGTCACCATGCTGAATGTACACTGATTCTTTATGATGAC
TGCTTAACTCCCCACTGCCTGTCCCAGAGAGGCTTTCCAATGTAGCTCAGTAATTCCTGTTACTTTACAGACAGG
AAAGTTCCAGAACTTTAAGAACAACTCTGAAAGACCTATGAGCAAATGGTGCTGAATACTTTTTTTTTTAAAGC
CACATTTCAATTGTCTTAGTCAAAGCAGGATTATTAAGTGATTATTTAAATTCGTTTTTTTTTAAATTAGCAACTTC
AAGTATAACAACTTTGAACTGGAATAAGTGTTATTTTCTATTAATAAAAATGAATTGTGACAAAAAAAACC

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FIGURE 2036

MVRRDRLRRMREWWVQVGLLAVPLLAAYLHIPPQQLSPALHSWKSSGKFFTYKGLRIFYQDSVGVVGSPEIVVLL
HGFPTSSYDWYKIWKGLTLRFHRVIALDFLGFGFSDKPRPHYSIFEQASIVEALLRHLGLQNRINLLSHDYGD
IVAQELLYRYKQNRSGRHTIKSLCLSNNGGIFPETHRPLLLQKLLKGGVLSPILTRLMNFFVFSRGLTPVFGPYT
RPSESELWDMWAGIRNNDGNLVIDSLLQYINQRKKFRRRWVGALASVTIP IHFIYGPLDPVNPYPEFLELYRCTL
PRSTVSILDDHISHYPQLEDPMGFLNAYMGFINSF

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FIGURE 2037

GAGGCGCCAGGATCAGTCGGGGCACCCGAGCGCAGGCTGCCACCCACCTGGGCGACCTCCGCGGCGGCGGCGGC
GGCGGCTGGGTAGAGTCAGGGCCGGGGGCGCACGCCGGAACACCTGGGCGCGCGGCGACCGAGCGTCGGGGGGCT
GCGCGGCGCGACCTGGAGAGGGCGCAGCCGATGCGGGCGGCGGCGGCGGCGGGGGCGTGCAGGACGGCCGCGCT
GGCGCTGCTGCTGGGGGCGCTGCACTGGGCGCGGCGGCGCTGCGAGGAGTACGACTACTATGGCTGGCAGGCCGA
GCGGCTGCACGGCCGCTCCTACTCCAAGCCGCCGAGTGCCTTGACATCCCTGCCGACCTGCCGCTCTGCCACAC
GGTGGGCTACAAGCGCATGCGGCTGCCAACCTGCTGGAGCACGAGAGCCTGGCCGAAGTGAAGCAGCAGGCCGAG
CAGCTGGCTGCCGCTGCTGGCCAAGCGCTGCCACTCGGATACGCAGGTCTTCCTGTGCTCGCTCTTTGCGCCCGT
CTGTCTCGACCGGCCCATCTACCCGTGCCGCTCGCTGTGCGAGGCCGTGCGCGCCGGCTGCGCGCCGCTCATGGA
GGCCTACGGCTTCCCTGGCCTGAGATGCTGCACTGCCACAAGTTCCCCCTGGACAACGACCTCTGCATCGCCGT
GCAGTTCGGGCACCTGCCCCGCCACCGCGCCTCCAGTGACCAAGATCTGCGCCAGTGTGAGATGGAGCACAGTGC
TGACGGCCTCATGGAGCAGATGTGCTCCAGTGACTTTGTGGTCAAAATGCGCATCAAGGAGATCAAGATAGAGAA
TGGGGACCGGAAGCTGATTGGAGCCCAGAAAAAGAAGAAGCTGCTCAAGCCGGGCCCCCTGAAGCGCAAGGACAC
CAAGCGGCTGGTGTGCACATGAAGAATGGCGCGGGCTGCCCTGCCACAGCTGGACAGCCTGGCGGGCAGCTT
CCTGGTCATGGGCCGCAAAGTGGATGGACAGCTGCTGCTCATGGCCGTCTACCGCTGGGACAAGAAGAATAAGGA
GATGAAGTTTGCAGTCAAATTCATGTTCTCCTACCCCTGCTCCCTCTACTACCCCTTCTTCTACGGGGCGGCAGA
GCCCCACTGAAGGGCACTCCTCCTTGCCCTGCCAGCTGTGCCTTGCTTGCCCTCTGGCCCCGCCCAACTTCCAG
GCTGACCCGGCCCTACTGGAGGGTGTTCACGAATGTTGTTACTGGCACAAGGCCTAAGGGATGGGCACGGAGC
CCAGGCTGTCCTTTTTGACCCAGGGGTCTGGGGTCCCTGGGATGTTGGGCTTCTCTCTCAGGAGCAGGGCTTC
TTCATCTGGGTGAAGACCTCAGGGTCTCAGAAAGTAGGCAGGGGAGGAGAGGGTAAGGGAAAGGTGGAGGGGCTC
AGGGCACCCCTGAGGCGGAGGTTTCAGAGTAGAAGGTGATGTCAGCTCCAGCTCCCCCTCTGTGGGTGGTGGGGCCT
CACCTTGAAGAGGGAAGTCTCAATATTAGGCTAAGCTATTTGGGAAAGTTCTCCCCACCGCCCCCTGTACGCGTCA
TCCTAGCCCCCTTAGGAAAGGAGTTAGGGTCTCAGTGCCTCCAGCCACACCCCTGCCTTCCCCAGCTTGCCCA
TTTCCCTGCCCCAAGGCCAGAGCTCCCCCAGACTGGAGAGCAAGCCCAGCCCAGCCTCGGCATAGACCCCTT
CTGGTCCGCCCCGTGGCTCGATTCCCGGGATTCACTCCTCAGCCTCTGCTTCTCCCTTTATCCCAATAAGTTATT
GCTACTGCTGTGAGGCCATAGGTACTAGACAACCAATACATGCAGGGTTGGGTTTTCTAATTTTTTTAACTTTTT
AATTAAATCAAAGGTCGACGCGCGGCCGCG

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FIGURE 2038

MRAAAAAGGVRTAALALLLGALHWAPARCEEYDYYGWQAEPLHGRSYSKPPQCLDIPADLPLCHTVGYKRMRLPN
LLEHESLAEVKQQASSWLPLLAKRCHSDTQVFLCSLFAPVCLDRPIYPCRSICEAVRAGCAPLMEAYGFPWPEML
HCHKFPLDNDLCIAVQFGHLPATAPPVTKICAQCEMEHSADGLMEQMCSSDFVVKMRIKEIKIENGDRKLIGAQK
KKKLLKPGPLKRKDTKRLVLHMKNAGCPCPQLDSLGSFLVMGRKVDGQLLLMAVYRWDKKNKEMKFAVKFMFS
YPCSLYYPFFYGAAEPH

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FIGURE 2039

TGCGACGTGACTGGCTAGCTGCGTGGGTACTGGAACAAGCAAACGAGGCAGCGAGCGAAGGACGGGAGCCGGACC
CTGGGCCCCGTGGAACCTCCAGCCTGCGCCACCACGTACGCACACGCTCGGCGCTGCGATCCGCGCATATAACGA
TATTTGGATTTGACCTGCATTTTGAATTTATCTACACTTAAATGCCACCAGCAGTTGGAGGTCCAGTTGGATA
CACCCCCCAGATGGAGGCTGGGGCTGGGCAGTGGTAATTGGAGCTTTTCATTTCCATCGGCTTCTCTTATGCATT
TCCCAAATCAATTACTGTCTTCTTCAAAGAGATTGAAGGTATATTCCATGCCACCACCAGCGAAGTGTATGGAT
ATCCTCCATAATGTTGGCTGTATGTATGGTGGAGGTCCTATCAGCAGTATCCTGGTGAATAAATATGGAAGTCG
TATAGTCATGATTGTTGGTGGCTGCTTGTGAGGCTGTGGCTTGATTGCAGCTTCTTTCTGTAACACCGTACAGCA
ACTATACGTCTGTATTGGAGTCATTGGAGGCTTTGGGCTTGCCCTTCAACTTGAATCCAGCTCTGACCATGATTGG
CAAGTATTTCTACAAGAGGCGACCATTGGCCAACGGACTGGCCATGGCAGGCAGCCCTGTGTTCTCTGTACTCT
GGCCCCCTCAATCAGGTTTTCTTCGGTATCTTTGGATGGAGAGGAAGCTTTCTAATTCTTGGGGGCTTGCTACT
AAACTGCTGTGTTGCTGGAGCCCTCATGCGACCAATCGGGCCCAAGCCAAGGCAGGGAAAGATAAGTCTAA
AGCATCCCTTGAGAAAGCTGGAAAATCTGGTGTGAAAAAGATCTGCATGATGCAAATACAGATCTTATTGGAAG
ACACCCTAAACAAGAGAAACGATCAGTCTTCCAAACAATTAATCAGTTCCTGGACTTAACCCATTACCCACAG
AGGCTTTTTGCTATACCTCTCTGGAATGTGATCATGTTTTTTGGACTCTTTCACCTTTGGTGTCTTCTAGTAG
TTATGGGAAGAGTCAGCATTATTCTAGTGAGAAAGTCTGCCTTCCTTCTTTCCATTCTGGCTTTTGTGACATGGT
AGCCCGACCATCTATGGGACTTGTAGCCAACACAAAGCCAATAAGACCTCGAATTCAGTATTTCTTTGCGGCTTC
CGTTGTTGCAAATGGAGTGTGTATATGCTAGCACCTTTATCCACTACCTATGTTGGATTCTGTGTCTATGCGGG
ATTCTTTGGATTTGCCTTCGGGTGGCTCAGCTCCGTATTGTTTTGAAACATTGATGGACCTTGTGGACCCAGAG
GTTCTCCAGCGCTGTGGGATTGGTGACCATTGTGGAATGCTGTCTCTGCTCCTGCGGGCCACCACTTTTAGGTCTG
GCTCAATGACATGTATGGAGACTACAAATACACATACTGGGCATGTGGCGTCGTCCTAATTATTTCAGGTATCTA
TCTCTTCATTGGCATGGGCATCAATTATCGACTTTTGGCAAAAGAACAGAAAGCAAACGAGCAGAAAAAGGAAAG
TAAAGAGGAAGAGACCAGTATAGATGTTGCTGGGAAGCCAAATGAAGTTACCAAAGCAGCAGAAATCTCCGGACCA
GAAAGACACAGAAGGAGGGCCCAAGGAGGAGGAAAGTCCAGTCTGAATCCATGGGGCTGAAGGGTAAATTGAGCA
GTTTCATGACCCAGGATATCTGAAAATATTCTACTGGCCTGTAATCTACCAGTGGTGCTCAATGCAAATAGTAGAC
ATTTGTGTGGAATCATACCAGTTGTTTCATTGATGGGATTTTTGTTTTGACTCCTTACCAATAGCCTGAATTGAG
GAGGGAATGATTGGTAGCAAAGGATGGGGGAAAGAAGTAGGTTCTGTTTTGTTTTGTTTTAATCTTAGCTTTTAA
TAGTGTCAATAAGATTATAATATGTGCCTTAAGTTTTAGTCTTTAGAACTCTAGAGAGCCTTAACCTCTTAAACC
ATTTTTGCTGAATTCATCTATTTTCGAGTGTGTGTTAAAGGAAAAATAACAATACTTGTGTTGAGGCAAATCT
AAAAATTTAAATTAATCTTGCTTCATTGTTACATGTAATATATTTTCAGACATTTTCACTGGAAGATTTATGAACA
GAAATATTGGTTGAAAGTTAGAGATTTTACAAAATGCTGACAAAAATATTTTCCCTAGCATCAGTAGATTTCTGGC
ATATGTTTCTGCTAGCTATATATTTAGGAAATTCAAAGCATAAACTTTGGCAACATCTTGGCTGTTCTAGACAC
AGTGTACTTGTCAACCCCTCTCAGGTACCTTTTCTTGGGATGCTTATTAGAAAGCCAAGTAAAGTGCTTAAGGTTT
GTTTTCATTAATTAGCTATTTCTGCTCCCTGTTCAAAGATGCATTTTGAGTGTGTTATAGATCACTGCCCTTTT
TGAAATCACCTGGTATTATTTTTCTTACTGGAAGGTTAGTATTAAATCTACAGAACTACATATTTGTGCCTCC
TTGGTAAATACAACACATCTAATTAAATGTAGACAGATATTTCAAACATCAGCTGAATTCACCTTAAGTTTTTCCA
AAACCTCAGTTAACTGTGAAGCTATTGGAATTTTTTTTTCTTGGAAATTTTTCCCTTTTGATTACAGTGGTCCC
ATTTATATCTGCTTCTAGCTTAGTGCTATGTGTGAGATATGTGTGTGTTTGGTGTGTTTTGTTTTTTGTTTTTTT
TTTTTTAAGGTTTGCAAATTAAGAGGGCCAGAAAAATTTGGCACCAGGCAAACGAATAAAGATAGGATTGGGAA
AGAAGTTGCTAAGTGTGCTTAGTTTTAATAAGTAATTCCTTCTCTTTTTTTCAGAGAAGGCCTTACAGAAAAATGT
TGTGCTTAGAATTGCTGGATGCATTTTTACCCTCCACACAAACCTAAAAATTTTGTGACCCCTTCACTTACCTG
AAAAGTAGAGAAATGGATTAGTATAAGGATAAGGAGGGAAGGTGGACCAGAATGAAAAGTGAATATTTTTTT
AACCTAATATCACTTAAATCGAGGCAGAAAGATATAGACATTCAATGAATTATATTCAATGCATTTAAATACCA
CTGTAATTGACAGAGTAAAGTATAGATACAAACCTTGTGTAAGAGGCTGACTTTTCCAAATAAACATTTTTTA
AGAAAACATTTCTTCTCCCAAATGTCTATTTTCTTGAGGAAATATTGCTGTGTCTTCATTTTCATTACCAGGTT
TCATTTTGGGCCTTGCTAAATTGATTGAATTAATCCTCCAGCTTTTGAACCTTGAAAAAAGAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAAG

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FIGURE 2040

MPPAVGGPVGYTTPDGGWGWAUVVIGAFISIGFSYAFPKSITVFFKEIEGIFHATTSEVSWISSIMLAVMYGGGP I
SSILVNKYGSRIVMIVGGCLSGCGLIAASF CNTVQQLYVCIGVIGGLGLAFNLNPALTMIGKYFYKRRPLANGLA
MAGSPVFLCTLAPLNQVFFGIFGWRGSFLILGGLLLNCCVAGALMRP IGP KPTKAGKDKSKASLEKAGKSGVKKD
LHDANTDLIGRHPKQEKR SVFQTINQFLDLTLFTHRGFLLYLSGNVIMFFGLFAPLVFLSSYGKSQHYSSEKSAF
* : LAFVDMVARPSMGLVANTKPIRPRIQYFFAASVVANGVCHMLAPLSTTYVGF CVYAGFFGFAGWLSSVLF
* #DLVG PQRFSSAVGLVTIVECCPVLLGPPLLGR LNDMYGDYKYTYWACGVVLIISGIYLF IGMGINYRL LAK
* #ANEQKESKEEETSIDVAGKPNEVT KAAESPDQKDTEGGPKEEESP V

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FIGURE 2041

GGCACGAGGAGGAAGAGCCGCGGGCCCGGGCTGAGGCCACCCCGCGGGCTGGAGAGCGAGGAGGAGCGGG
TGGCCCCGCGCTGCGCCCGCCCTCGCCTCACCTGGCGCAGGTGGACACCTGCGCAGGTGTGTGCCCTCCGGCCCC
TGAAGCATGGCCAGCAGCGGCATGGCTGACAGCGCCAACCACTGCCCTTCTTTTCGGCAACATCACCCGGGAG
GAGGCAGAAGATTACCTGGTCCAGGGGGGCATGAGTGATGGGCTTTATTTGCTGCGCCAGAGCCGCAACTACCTG
GGTGGCTTCGCCCTGTCCGTGGCCACGGGAGGAAGGCACACCACTACACCATCGAGCGGGAGCTGAATGGCACC
TACGCCATCGCCGGTGGCAGGACCCATGCCAGCCCCGCGACCTCTGCCACTACCACTCCCAGGAGTCTGATGGC
CTGGTCTGCCTCCTCAAGAAGCCCTTCAACCGCCCCAAGGGGTGCAGCCCAAGACTGGGCCCTTTGAGGATTTG
AAGGAAAACCTCATCAGGGAATATGTGAAGCAGACATGGAACCTGCAGGGTCAGGCTCTGGAGCAGGCCATCATC
AGTCAGAAGCCTCAGCTGGAGAAGCTGATCGCTACCACAGCCCATGAAAAAATGCCTTGGTTCCATGGAAAAATC
TCTCGGGAAGAATCTGAGCAAATTGTCTGATAGGATCAAAGACAAATGGAAAGTTCTGATCCGAGCCAGAGAC
AACAACGGCTCCTACGCCCTGTGCCTGCTGCACGAAGGGAAGGTGCTGCACTATCGCATCGACAAAGACAAGACA
GGGAAGCTCTCCATCCCCGAGGGAAAGAAGTTCGACACGCTCTGGCAGCTAGTCGAGCATTATTCTTATAAAGCA
GATGGTTTGTAAAGAGTTCTTACTGTCCCATGTCAAAAAATCGGCACACAGGGAAATGTTAATTTTGGAGGCCGT
CCACAACCTTCAGGTTCCCATCCTGCGACTTGGTCAGCGGGTGAATAATCTCAAGAATCAAATCATACTCCTTC
CCAAAGCCTGGCCACAGAAAGTCTCCCTGCCCAAGGGAACCGGCAAGAGAGTACTGTGTCAATTCAATCCGTAT
GAGCCAGAACTTGCACCTGGGCTGCAGACAAAGGCCCCAGAGAGAAGCCCTACCCATGGACACAGAGGTGTAC
GAGAGCCCCTACGCGGACCCTGAGGAGATCAGGCCCAAGGAGGTTTACCTGGACCGAAAGCTGCTGACGCTGGAA
GACAAAGAACTGGGCTCTGGTAATTTTGGAACTGTGAAAAAGGGCTACTACCAAATGAAAAAGTTGTGAAAACC
GTGGCTGTGAAAAATACTGAAAAACGAGGCCAATGACCCCGCTCTTAAAGATGAGTTATTAGCAGAAGCAAATGTC
ATGCAGCAGCTGGACAACCCGTACATCGTGCGCATGATCGGGATATGCGAGGCCGAGTCTGGATGCTAGTTATG
GAGATGGCAGAACCTTGGTCCCCCAATAAGTATTTGCAGCAGAACAGACATGTCAAGGATAAGAACATCATAGAA
CTGGTTTCATCAGGTTTCCATGGGCATGAAGTACTTGGAGGAGAGCAATTTTGTGCACAGAGATCTGGCTGCAAGA
AATGTGTTGCTAGTTACCCAACATTATGCCAAGATCAGTGATTTCCGACTCTCCAAAGCACTGCGTGCTGATGAA
AACTACTACAAGGCCCAGACCCATGGAAAGTGGCCTGTCAAGTGGTACGCTCCGGAATGCATCAACTACTACAAG
TTCTCCAGCAAAAGCGATGTCTGGAGCTTTGGAGTGTTGATGTGGGAAGCATTCTCCTATGGGCAGAAGCCATAT
CGAGGGATGAAAGGAAGTGAAGTCACCGCTATGTTAGAGAAAGGAGAGCGGATGGGGTGCCCTGCAGGGTGTCCA
AGAGAGATGTACGATCTCATGAATCTGTGCTGGACATACGATGTGGAAAAACAGGCCCGGATTTCGCAGCAGTGGAA
CTGCGGCTGCGCAATTACTACTATGACGTGGTGAACTAACCGCTCCCGCACCTGTGCGGTGGCTGCCTTTGATCAC
AGGAGCAATCACAGGAAAATGTATCCAGAGGAATTGATTGTGAGCCACCTCCCTCTGCCAGTCGGGAGAGCCAGG
CTTGGATGGAACATGCCACAACCTTGTCACCCAAGCCTGTCCCAAGGACTCACCTCCACAAAGCAAAGGCAGTC
CCGGGAGAAAAGACGGATGGCAGGATCCAAGGGGCTAGCTGGATTGTTTGTGTTTCTTGTCTGTGTGATTTTCAT
ACAGGTTATTTTTACGATCTGTTTCCAAATCCCTTTCATGCTTTTCCACTTCTCTGGGTCCCGGGGTGCATTTGT
TACTCATCGGGCCAGGGACATTGCAGAGTGGCCTAGAGCACTCTCACCCCAAGCGGCCTTTTCCAAATGCCCAA
GGATGCCTTAGCATGTGACTCCTGAAGGGAAGGCAAAGGCAGAGGAATTTGGCTGCTTCTACGGCCATGAGACTG
ATCCCTGGCCACTGAAAAGCTTTCCTGACAATAAAAAATGTTTTGAGGCTTTAAAAAGAAAATCAAGTTTGACCAG
TGCAGTTTCTAAGCATGTAGCCAGTTAAGGAAAGAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG

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FIGURE 2042

MASSGMADSANHL PFFFGNITREEAEDYLVQGGMSDGLYLLRQSRNYLGGFALSVAHGRKAHHYTIERELNGTYA
IAGGRTHASPADLCHYHSQESDGLVCLLKPFNRPQGVQPKTGPFEDLKENLIREYVKQTWNLOGQALEQAIISQ
KPQLEKLIATTAHEKMPWFHKGISREESEQIVLIGSKTNGKFLIRARDNNGSYALCLLHEGKVLHYRIDKDKTGK
LSIPEGKKFDTLWQLVEHYSYKADGLLRVLTVPCQKIGTQGNVNFGRPQLPGSHPATWSAGGIISRIKSYSPFK
PGHRKSSPAQGNRQESTVSFNPYEP LAPWAADKGPQREALPMDTEVYESPYADPEEIRPKEVYLDKLLTLEDK
ELGSGNFGTVKKGYQMKKVKTAVVKILKNEANDPALKDELLAEANVMQQLDNPYIVRMIGICEAESWMLV MEM
AELGPLNKYLQONRHVKDKNIELVHQVSMGMKYLEESNFVHRDLAARNVLLVTQHYAKISDFGLSKALRADENY
YKAQTHGKWPVKWYAP ECI NYKFSSKSDVWSFGVLMWEAFSYGQKPYRGMKGSEVTAMLEKGERMGCPAGCPRE
MYDLMNLCWTYDVENRPGFAA VELRLRNYYYDVVN

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FIGURE 2043A

CAAATGCGAACTTAGGCTGTTACACAACCTGCTGGGGTCTGTTCTCGCCGCCCGCCCGGCAGTCAGGCAGCGTCGC
CGCCGTGGTAGCAGCCTCAGCCGTTTCTGGAGTCTCGGGCCACAGTCACCGCCGCTTACCTGCGCCTCCTCGAG
CCTCCGGAGTCCCCGTCCGCCCGCACAGGCCGTTTCGCCGTCTGCGTCTCCCCACGCCGCTCGCCTGCCGCCG
CGCTCGTCCCTCCGGGCCGACATGAGTGGGGACCACCTCCACAACGATTCCAGATCGAAGCGGATTTCCGATTG
AATGATTCTCATAAACACAAAGATAAACACAAAGATCGAGAACACCGGCACAAAGAACACAAGAAGGAGAAGGAC
CGGAAAAGTCCAAGCATAGCAACAGTGAACATAAAGATTCTGAAAAGAAACACAAAGAGAAGGAGAAGACCAA
CACAAAGATGGAAGCTCAGAAAAGCATAAAGACAAACATAAAGACAGAGACAAGGAAAAACGAAAAAGGAAAAAG
GTTTCGAGCCTCTGGGGATGCAAAAAATAAAGAAGGAGAAGGAAAAATGGCTTCTCTAGTCCACCACAAATTAAAGAT
GAACCTGAAGATGATGGCTATTTTGTTCCTCTAAAGAGGATATAAAGCCATTAAAGAGACCTCGAGATGAGGAT
GATGCTGATTATAAACCTAAGAAAAATTAAACAGAAGATACCAAGAAGGAGAAGAAAAAGAACTAGAAGAAGAA
GAGGATGGTAAATTGAAAAAACCCAAGATAAAGATAAAAAAGTTTCTGAGCCAGATAACAAGAAAAAG
AAGCCGAAGAAAGAAGAGGAACAGAAGTGGAATGGTGGGAAGAAGAGCGCTATCCTGAAGGCATCAAGTGGA
TTCTTAGAACATAAAGGTCCAGTATTTGCCCCACCATATGAGCCTCTTCCAGAGAATGTCAAGTTTTATTATGAT
GGTAAAGTCATGAAGCTGAGCCCCAAAGCAGAGGAAGTAGCTACGTTCTTTGCAAAAAATGCTCGACCATGAATAT
ACTACCAAGGAAATATTTAGGAAAAATTTCTTTAAAGACTGGAGAAAGGAAATGACTAATGAAGAGAAGAAATATT
ATCACCACCTAAGCAAATGTGATTTTACCCAGATGAGCCAGTATTTCAAAGCCAGACGGAAGCTCGGAAACAG
ATGAGCAAGGAAGAGAACTGAAAATCAAAGAGGAGAATGAAAAATTACTGAAAGAATATGGATTCTGTATTATG
GATAACCACAAAGAGAGGATTGCTAACTTCAAGATAGAGCCTCCTGGACTTTTCCGTGGCCGCGGCAACCACCCC
AAGATGGGCATGCTGAAGAGACGAATCATGCCCGAGGATATAATCATCAACTGTAGCAAAGATGCCAAGGTTTCT
TCTCCTCCTCCAGGACATAAGTGGAAGAAGTCCGGCATGATAACAAGGTTACTTGGCTGGTTTCTTGACAGAG
AACATCCAAGGTTCCATTAAATACATCATGCTTAACCCTAGTTTACGAATCAAGGGTGAGAAGGACTGGCAGAAA
TACGAGACTGCTCGGCCGGCTGAAAAATGTGTGGACAAGATCCGGAACCAGTATCGAGAAGACTGGAAGTCCAAA
GAGATGAAAGTCCGGCAGAGAGCTGTAGCCCTGTACTTCATCGACAAGCTTGCTCTGAGAGCAGGCAATGAAAAG
GAGGAAGGAGAAACAGCGGACACTGTGGGCTGCTGCTCACTTCGTGTGGAGCACATCAATCTACACCCAGAGTTG
GATGGTCAGGAATATGTGGTAGAGTTTGACTTCCTCGGGAAGGACTCCATCAGATACTATAACAAGGTCCCTGTT
GAGAAACGAGTTTTTAAGAACCTACAATATTTATGGAGAACAAGCAGCCCGAGGATGATCTTTTTTGATAGACTC
AATACTGGTATTCTGAATAAGCATCTTCAGGATCTCATGGAGGGCTTGACAGCCAAGGTATTCCTGTACATACAT
GCCTCCATCACGCTACAGCAGCAGCTAAAAGAACTGACAGCCCCGGATGAGAACATCCAGCGAAGATCCTTTCT
TATAACCGTGCCAATCGAGCTGTTGCAATTCCTTTGTAACCATCAGAGGGCACCAACAAAACTTTTGAGAAGTCT
ATGATGAACTTGCAAATAAGATTGATGCCAAGAAGGAACAGCTAGCAGATGCCCGGAGAGACCTGAAAAGTGCT
AAGGCTGATGCCAAGGTCATGAAGGATGCAAGACGAAGAAGGTAGTAGAGTCAAAGAAGAAGGCTGTTTCAGAGA
CTGGAGGAACAGTTGATGAAGCTGGAAGTTCAAGCCACAGACCGAGAGGAAAAATAAACAGATTGCCCTGGGAACC
TCCAACTCAATTATCTGGACCTTAGGATCACAGTGGCTTGGTGCAAGAAGTGGGGTGTCCCAATTGAGAAGATT
TACAACAAAACCCAGCGGGAGAAGTTTGCTGGGCCATTGACATGGCTGATGAAGACTATGAGTTTTAGCCAGTC
TCAAGAGGCAGAGTTCTGTGAAGAGGAACAGTGTGGTTTGGGAAAGATGGATAAACTGAGCCTCACTTGCCCTCG
TGCCTGGGGGAGAGAGGCAGCAAGTCTTAACAAACCAACATCTTTGCGAAAAGATAAACCTGGAGATATTATAAG
GGAGAGCTGAGCCAGTTGTCTTATGGACAACCTATTTAAAAATATTTTCAAGATATCAAAATTTCTAGCTGTATGATT
TGTTTTGAATTTTGTTTTTATTTTCAAGAGGGCAAGTGGATGGGAATTTGTCAGCGTTCTACCAGGCAAATTCAC
TGTTTTCACTGAAATGTTTGGATTCTCTTAGCTACTGTATGCAAAGTCCGATTATATTGGTGCCTTTTTACAGTTA
GGGTTTTGCAATAACTTCTATATTTTAAAGAAATAAATTCCTAACTCCCTTCCCTCTCTCCATTTTCAAGGAAT
TTAAATTAAGTAGAACAAAAAACCCAGCGCACCTGTTAGAGTCGTCACCTCTCTATTGTCTATGGGGATCAATTTT
CATTAACTTGAAGCAGTCGTGGCTTTGGCAGTGTTTTGGTTTCAGACACCTGTTTCACAGAAAAAGCATGATGGGA
AAATATTTTCTGACTTGAGTGTTCCTTTTTAAATGTGAATTTTTATTTCTTTTTAATTATTTTAAATATTTAA
CCTTTTTCTTGATCTTAAAGATCGTGTAGATTGGGGTTGGGGAGGGATGAAGGGCGAGTGAATCTAAGGATAATG
AAATAATCAGTGAAGTGAACCATTTTCCCATCATCTTTGTTCTGAGCATTGCTGTACCCTTTAAGATATCCAT
CTTTTTCTTTTTAACCCTAATCTTTCACTTGAAAGATTTTATTGTATAAAAGTTTCACAGGTCAATAAACTTAG
AGGAAAATGAGTATTTGGTCCAAAAAAGGAAAAATAATCAAGATTTTAGGGCTTTTATTTTTCTTTTGTAAAT
GTGTAAAAAATGGAAAAAACATAAAAGCAGAATTTTAAATGTGAAGACATTTTTTGCTATAATCATTAGTTTTA

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FIGURE 2043B

GAGGCATTGTTAGTTTAGTGTGTGTGCAGAGTCCATTTCCCACATCTTTCCTCAAGTATCTTCTATTTTTATCAT
GAATTCCTTTTAATCAACTGTAGGTTATTTAAAATAAATTCCTACAACCTAATGGAAA

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FIGURE 2044

MSGDHLHND SQIEADFR LND SHKHKDKHKDREHRHKEHKKEKDREKSKHSNSEHKDSEKKHKEKEKTKHKDGSSE
KHKDKHKDRDKEKRKEEKVRASGDAKIKKEKENGFSPPQIKDEPEDDGYFVPPKEDIKPLKRPRDEDDADYKPK
KIKTEDTKKEKKRKL EEEEE DGKLKKPKNKDKDKKVPEPDNKKKKPKKEEQKWKWWEERYPEGIKWKFL EHKGP
VFAPPYEPLPENVKFYD GKV MKLSPKAEVATFFAKMLDHEYTTKEIFRKNFFKDWRKEMTNEEKNIITNLSKC
DFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLKEYGFCIMDNHKERIANFKIEPPGLFRGRGNHPKMGMLKR
RIMPEDIIINCSKDAKVPSPPPGHKWKEVRHDNKVTWLVSWTENIQGSIKYIMLNPSSRIKGEKDWQKYETARRL
KKCVDKIRNQYREDWKS KEMKVRQRAVALYFIDKLALRAGNEKEEGETADTVGCCSLRVEHINLHPELDGQEYVV
EFD FLGKDSIRYYNKVPVEKRVFKNLQLFMENKQPEDDLFDRLNTGILNKLQDLMEGLTAKVFRTYNASITLQQ
QLKELTAPDENIPAKILSYNRANRAVAILCNHQRAPPKTFEKSMMNLQTKIDAKKEQLADARRDLKSAKADAKVM
KDAKTKKVVESKKKAVQRLEEQLMKLEVQATDREENKQIALGT SKLNYLDP RITVAWCKKWGVP IEKIYNKTQRE
KFAWAIDMADEDYEF

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FIGURE 2045

GGAATTCCGTGGCCAGGATGCTGAGCCTGCTGCTGCTGGCGCTGCCCCGTCTGGCGAGCCGCGCCTACGCGGCCC
CTGCCCCAGTCCAGGCCCTGCAGCAAGCGGGTATCGTCGGGGGTCAGGAGGCCCCCAGGAGCAAGTGGCCCTGGC
AGGTGAGCCTGAGAGTCCGCGACCGATACTGGATGCACTTCTGCGGGGGCTCCCTCATCCACCCCCAGTGGGTGC
TGACCGCGGCGCACTGCCTGGGACCGGACGTCAAGGATCTGGCCACCCTCAGGGTGCAACTGCGGGAGCAGCACC
TACTACCAGGACCAGCTGCTGCCAGTCAGCAGGATCATCGTGCACCCACAGTTCTACATCATCCAGACTGGAG
ATATCGCCCTGCTGGAGCTGGAGGAGCCCGTGAACATCTCCAGCCGCGTCCACACGGTCATGCTGCCCCCTG
TCGGAGACCTTCCCCCGGGGATGCCGTGCTGGGTCACTGGCTGGGGCGATGTGGACAATGATGAGCCCCCTCC
CACCGCCATTTCCCTGAAGCAGGTGAAGGTCCCCATAATGGAAAACCAATTTGTGACGCAAAATACCACCTTG
CCCTACACGGGAGACGACGTCCGCATCATCCGTGACGACATGCTGTGTGCCGGGAACAGCCAGAGGGACTCCT
AAGGGCGACTCTGGAGGGCCCCCTGGTGTGCAAGGTGAATGGCACCTGGCTACAGGCGGGCGTGGTCAGCTGGG
AGGGGCTGTGCCCAGCCCAACCGGCCTGGCATCTACACCCGTGTCACCTACTACTTGGACTGGATCCACCACT
ATCCCCAAAAGCCGTGAGTCAGGCCTGGGTGTGCCACCTGGGTCACTGGAGGACCAACCCCTGCTGTCCAAA
ACCACTGCTTCCTACCCAGGTGGCGACTGCCCCCACACCTTCCCTGCCCCGTCTGAGTCCCCCTTCCTGTC
CTAAGCCCCCTGCTCTCTTCTGAGCCCCCTCCCCTGTCCTGAGGACCCTTCCCATCCTGAGCCCCCTTCCTGT
CCTAAGCCTGACGCCTGCACTGGGCCCTCCGGCCCTCCCCTGCCCAGGCAGCTGGTGGTGGGCGCTAATCCTCCT
GAGTGCTGGACCTCATTAAAGTGCATGGAAATC

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FIGURE 2046

MLSLLLLALPVLASRAYAAPAPVQALQQAGIVGGQEAPRSKWPWQVSLRVRDRYWMHFCGGS LIHPQWVLTAHC
LGPDVKDLATLRVQLREQHLYYQDQLLPVSRIIVHPQFYIIQTGADIALLELEEPVNISRVHTVMLPPASETFP
PGMPCWVTGWGDVDNDEPLPPFFPLKQVKVPI MENHICDAKYHLGAYTGDDVRIIRDDMLCAGNSQORDSCKGDSG
GPLVCKVNGTWLQAGVVSWEDEGCAQPNRPGIYTRVTYYLDWIIHHYVPKKP

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FIGURE 2047

ATTAACCTTCTCTTAGTCTTCAACCTAAGTACTTGAATGTCAAGTACCCTCCAACCCTCAATGTCCCAAGACTTT
TAAGAGCGGAAGGTACCGATGAGTTCCATCCTTTACTAGGGTCACCAAGGAAGGCATGGGTATATGGAAATTTTT
ATTATTATTCCATCTGAATATCATTTTCTAGAGAATAGGAGCTTTTGTCTGAAGGGCTGCCGGCTTCCTTCTGG
GATCTAGCAGCCAGGGTTAGATCACAGGTGTCACTTTAGGCGAGTAGTTAGCAACGGTATCGCTAGCAACTGAG
CCGACCCCTGCAGCCAGAGGTTTGCAGTGGGTAGTGTATTCCAGAAAGGGCCCTGACATGTGAAAGGAAGGAA
TGTGCCCTAATATTCTACAGTTGTTTTATCGTTGCTACTGATTAGGTCCATCGAGGGAAGCCCATCCCTGAGACG
CATGACAGTGATGCGGGAGAAGGGCCGCCAGGCTGTGAGGGGCCCGGCTTCATGTTCAATGACCGCGGCAC
CAGCCTCACCGCCGAGGAGGAGCGCTTCCTCGACGCCGCCAGTACGGCAACATCCAGTGGTGCGCAAGATGCT
GGAGGAGTCCAAGACGCTGAACGTCAACTGCGTGACTACATGGGCCAGAACGCGCTGCAGCTGGCTGTGGGCAA
CGAGCACCTGGAGGTGACCGAGCTGCTCAAGAAGGAGAACCTGGCGCGCATTGGCGACGCCCTGCTGCTCGC
CATCAGCAAGGGCTACGTGCGCATCGTAGAGGCCATCCTCAACCACCTGGCTTCGCGGCCAGCAAGCGTCTCAC
TCTGAGCCCCCTGTGAGCAGGAGCTGCAGGACGACGACTTCTACGCTTACGACGAGGACGGCACGCGCTTCTCGCC
GGACATCACCCCCATCATCTGGCGGCGCACTGCCAGAAATACGAAGTGGTGCACATGCTGCTGATGAAGGGTGC
CAGGATCGAGCGGCCGACGACTATTTCTGCAAGTGCGGGGACTGCATGGAGAAGCAGAGGCACGACTCCTTCAG
CCACTCACGCTCGAGGATCAATGCCTACAAGGGGCTGGCCAGCCCGGCTTACCTCTCATTGTCCAGCGAGGACCC
GGTGCTTACGGCCCTAGAGCTCAGCAACGAGCTGGCCAAGCTGGCCAACATAGAGAAGGAGTTCAAGAATGACTA
TCGGAAGCTCTCCATGCAATGCAAAGACTTTGTAGTGGGTGTGCTGGATCTCTGCCGAGACTCAGAAGAGGTAGA
AGCCATTCTGAATGGAGATCTGGAATCAGCAGAGCCTCTGGAGGTACACAGGCACAAAGCTTCATTAAGTCGTGT
CAAACCTTGCCATTAAGTATGAAGTCAAAAAGTTTGTGGCTCATCCCAACTGCCAGCAGCAGCTCTTGACGATCTG
GTATGAGAACCTCTCAGGCCTAAGGGAGCAGACCATAGCTATCAAGTGTCTCGTTGTGCTGGTCTGTCCTGGG
CCTTCCATTCTGGCCATTGGCTACTGGATCGCACCTTGCCAGGCTGGGGAAAATTCTGCGAAGCCCTTTTAT
GAAGTTTGTAGCACATGCAGCTTCTTTCATCATCTTCTGGGTCTGCTTGTGTTCAATGCCTCAGACAGGTTCTGA
AGGCATCACACGCTGCCCAATATCACAGTTACTGACTATCCCAAACAGATCTTCAGGGTGAAAACCCAGTT
TACATGGACTGAAATGCTAATTATGGTCTGGGTCTTGGGAATGATGTGGTCTGAATGTAAAGAGCTCTGGCTGGA
AGGACCTAGGGAATACATTTTGCAGTTGTGGAATGTGCTTGACTTTGGGATGCTGTCCATCTTCATTGCTGCTTT
CACAGCCAGATTCCTAGCTTTCTTTCAGGCAACGAAGGCACAACAGTATGTGGACAGTTACGTCCAAGAGAGTGA
CCTCAGTGAAGTGACACTCCCACCAGAGATACAGTATTTCACTTATGCTAGAGATAAATGGCTCCCTTCTGACCC
TCAGATTATATCTGAAGGCCTTTATGCCATAGCTGTTGTGCTCAGCTTCTCTCGGATTGCGTACATCCTCCCTGC
AAATGAGAGCTTTGGCCCCCTGCAGATCTCTCTTGAAGGACTGTAAAGGACATATTCAAGTTTATGGTCTCTCT
TATTATGGTGTTTTTTGCCTTTATGATTGGCATGTTTCACTTTTATTCTTACTACCTTGGGGCTAAAGTTAATGC
TGCTTTTACCAGTGTAGAAGAAAGTTTCAAGACTTTATTTTGGTCAATATTTGGGTGTCTGAAGTGACTTCCGT
TGTGCTCAAATATGATCACAAATTCATAGAAAATATTGGATACGTTCTTTATGGAATATACAATGTAACATGTT
GGTCTGTTTTACTCAACATGCTAATTGCTATGATTAATAGCTCATATCAAGAAATTGAGGATGACAGTGATGTAGA
ATGGAAGTTTGTCTGTTCAAACTTTGGTTATCCTATTTTGTATGATGGAAAAACATTACCTCCACCTTTCAGTCT
AGTTCCTAGTCCAAAATCATTTGTTTATTTTCATCATGCGAATTGTTAACTTTCCCAAATGCAGAAGGAGAAGGCT
TCAGAAGGATATAGAAATGGGAATGGGTAACCAAAGTCCAGGTTAAACCTCTTCACTCAGTCTAACTCAAGAGT
TTTTGAATCACACAGTTTTAACAGCATTCTCAATCAGCCAACACGTTATCAGCAGATAATGAAAAGACTTATAAA
GCGGTATGTTTTGAAAGCACAAAGTAGACAAAGAAAATGATGAAGTTAATGAAGGTGAATTAAGGAAATCAAGCA
AGATATCTCCAGCCTTCGTTATGAACCTTTTGGAGACAAGAGCCAAGCAACTGAGGAATTAGCCATTCTAATTCA
TAAACTTAGTGAGAACTGAATCCCAGCATGCTGAGATGTGAATGATGCAGCAACCTGGATTGCTTTGACTAT
AGCACAAATGTGGGCAATAATATTTCTAAGTATGAAATACTTGAAAACTATGATGTAAATTTTTAGTATTAAC
ACCTTTATCATGTGAACCTTTTAAAGTTAGCTCTTAATGGTTTTATTGTTTTATCATATGAAATGCATTTTATT
TGTCTGCTTTGACATTACAGTGGCATAACATTGTGTTGAAAAGCCCAATATTACTATATTATTGAACTTTTTATT
CATTTTAGAGTAACTCCACATCTTTGCACTACCTGTTTGCCTCCAAGAGACTATCAGTTCCTTGGGGACAGGGA
CCATGTCTTATTCATCTTTGTGTCTCCAGCATCTAGTACAGTGCCTGGTATATAGTAGGTGCTCAATAAATGTTG
AAACCAACTGAACTGCCAACAAAATAAAAATAAAAAGTCTTCACTATGTAGCATAAAAAATAAAAAA

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FIGURE 2048

MEGSPSLRRMTVMREKGRRQAVRGPAFMFNDRGTSLTAEERFLDAAEYGNIPVVRKMLEESKTLNVNCVDYMGQ
NALQLAVGNEHLEVTELLKKENLARIGDALLLAISKGYVRIVEAILNHPGFAASKRLTLSPCEQELQDDDFYAY
DEDGTRFSPDITPIILAHCQKYEVVHMLLMKGARIERPHDYFCKCGDCMEKQRHDSFSHSRSRINAYKGLASPA
YLSLSSDPVLTALELSNELAKLANIEKEFKNDYRKLMSQCKDFVVGVLDCRDSEEEVEAILNGDLESAEPLEVH
RHKASLSRVKLAIKYEVKKFVAHPNCQQQLTIWYENLSGLREQTIAIKCLVVLVVALGLPFLAIGYWIAPCSRL
GKILRSPFMKFVAHAASFII FLGLLVFNASDRFEGITTLPNITVTDYPKQIFRVKTTQFTWTEMLIMVWVLGMMW
SECKELWLEGPREYILQLWNVLDGMLSIFIAAFTARFLAFLQATKAQQYVDSYVQESDLSEVTLPPEIQYFTYA
RDKWLPSDPQIISEGLYAIAVVLSFSRIAYILPANESFGPLQISLGRTVKDIFKFMVLFIMVFFAFMIGMFILYS
YYLGAKVNAAFTTVEESFKTLFWSIFGLSEVTSVVLKYDHKFIENIGYVLYGIYNVTMVVLLNMLIAMINSSYQ
EIEDDSVVEWKFARSKLWLSYFDDGKTLPPPSLVPSPKSFVYFIMRIVNFPKRRRRRLQKDIEMGMGNSKSRLN
LFTQSNRSRVFESHFSNSILNQPTRYQQIMKRLIKRYVLKAQVDKENDEVNEGELKEIKQDISSRLRYELLEDKSQA
TEELAILIHKLSEKLNPSMLRCE

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FIGURE 2049A

GGCACGAGCAGAAGCAACAATAATTGTGAAAAATACCTTCAGCAGTTATGGACTCATCTGTCATTCAAAGGAAAAA
AGTAGCTGTCATTGGTGGTGGCTTGGTTGGCTCATTACAAGCATGCTTTCTTGCAAAGAGGAATTTCCAGATTGA
TGTATATGAAGCTAGGGAAGATACTCGAGTGGCTACCTTCACACGTGGAAGAAGCATTAACTTAGCCCTTTCTCA
TAGAGGACGACAAGCCTTGAAAGCTGTTGGCCTGGAAGATCAGATTGTATCCCAAGGTATTCCCATGAGAGCAAG
AATGATCCACTCTCTTTTCAGGAAAAAAGTCTGCAATTCCCTATGGGACAAAAGTCTCAGTATATTCTTTCTGTAAG
CAGAGAAAAATCTAAACAAGGATCTATTGACTGCTGCTGAGAAATACCCCAATGTGAAAATGCACCTTTAACCACAG
GCTGTTGAAATGTAATCCAGAGGAAGGAATGATCACAGTGCTTGGATCTGACAAAGTTCCCAAAGATGTCACCTTG
TGACCTCATTGTAGGATGTGATGGAGCCTATTCAACTGTCAGATCTCACCTGATGAAGAAACCTCGCTTTGATTA
CAGTCAGCAGTACATTCCCTCATGGGTACATGGAGTTGACTATTCCACCTAAGAACGGAGATTATGCCATGGAACC
TAATTATCTGCATATTTGGCCTAGAAATACCTTTATGATGATTGCACTTCCTAACATGAACAAATCATTACATG
TACTTTGTTTCATGCCCTTTGAAGAGTTTGAAGAACTTCTAACCCAGTAATGATGTGGTAGATTTCTTCCAGAAATA
CTTTCCGGATGCCATCCCTCTAATTGGAGAGAACTCCTAGTGCAAGATTTCTTCTGTTGCCTGCCACGCCCAT
GATATCTGTAAAGTGCTCTTCATTTCACTTTAAATCTCACTGTGTACTGCTGGGAGATGCAGCTCATGTCTATAGT
GCCGTTTTTTGGGCAAGGAATGAATGCGGGCTTTGAAGACTGCTTGGTATTTGATGAGTTAATGGATAAATTCAG
TAACGACCTTAGTTTTGTGTCTTCTGTGTTCTCAAGATTGAGAATCCCAGATGATCACGCGATTTTCAGACCTATC
CATGTACAATTACATAGAGATGCGAGCACATGTCAACTCAAGCTGGTTCATTTTTTCAGAAGAACATGGAGAGATT
TCTTCATGCGATTATGCCATCGACCTTTATCCCTCTCTATACAATGGTCACTTTTTTCCAGAATAAGATACCATGA
GGCTGTGCAGCGTTGGCATTGGCAAAAAAAGGTGATAAACAAAGGACTCTTTTTCTTGGGATCACTGATAGCCAT
CAGCAGTACCTACCTACTTATACACTACATGTCACCACGATCTTTCCTCTGCTTGAGAAGACCATGGAACCTGGAT
AGCTCACTTCCGGAATACAACATGTTTCCCCGCAAAGGCCGTGGACTCCCTAGAACAAATTTCCAATCTCATTAG
CAGGTGATAGAAAGGTTTTGTGGTAGCAAATGCATGATTTCTCTGTGACCAAAATTAAGCATGAAAAAAATGTTT
CCATTGCCATATTTGATTCACTAGTGAAGATAGTGTCTGCTTATAATTAACTGAATGTAGAGTATCTCTGTA
TGTTAATTGCAATTACTGGTTGGGGGTGCATTTTAAAAGATGAAACATGCAGCTTCCCTACATTACACACACTC
AGGTTGAGTCATTCTAACTATAAAAGTGCAATGACTAAGATCCTTCACTTCTCTGAAAGTAAGGCCCTAGATGCC
TCAGGGAAGACAGTAATCATGCCTTTTCTTTAAAAGACACAATAGGACTCGCAACAGCATTGACTCAACACCTAG
GACTAAAAATCACAACCTTAAGTAGCATGTTAACTGCACCTTTTCATTACGTGAATGGAACCTTACCTAACCACAGGG
CTCAGACTTACTAGATAAAACCAGAAATGGAATAAGGAATTGAGGGGAGTTCCAGAGACTTACAAAATGAACCTC
ATTTTATTTTCCACCTTCAAATATAAGTATTATCATCTATCTGTTTATCGTCTATCTATCTATCTATCTATCTAT
CTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCT
ATTTAGAGATCAGGTCTCACTCTGTTGACCAGGCTGGAGTGCAGTGGTGAGATCTGGGTTCACTGCAACCTCTGC
CTCCTGGGCTCAAGCAATCCTCCCACTTCAGCCTCCCAATAGCTGGGGCTACCATGGTATTTTTTCAGTAGAGAC
CGGGTCTTGCCATGCTGCCAGGCCAGTCTCAAACCTCTGGCCTCATGTGATCTGCCACCTCAGCCTCCCAAAG
TACAGGGATTAGAGTTGTGAGCCACCGCTGCCAGCCAGAGTTACCCTCTAAAGATAAGAAAAAGGCTATTATA
TCATACTAAGTGAAGGACAGGAAAGGGTTTTATTATAAATTAATGTCTACATGTGCCAGAATGGAAAGGAAAC
AAGGGGAGACAACTTTTATAGAAATACAAAGCCATTACTTTATTCAATTTTCAGACCCTCAGAAGCAATTTACTAA
TTTATTCTTCGACTACATACTGCAGCAGAACAGCAATACACTTGATTTTTAAAAGCACATTTAGTGAAATGTTT
TCTTTGGTTTCATCCTTCTTTAACAGGCTGCTGAGTCACTCAGAAATCCTTCAAACATGATTAATTATGAAGATGA
AACACTAGAGTCATATAAGAAATAAAATTTGGGCAATAAAATAAAATGATTCAGTGTCTTTTCTATATTGTCA
ATGAAAACCTTGAGTTCTAATAATCCATGTTTCAGTTTGTAGGGAAAAGAAAAATAATTTTTCTTCTACCCACTT
TAGGTTCCCTTGGCTGGGGCCCTATAACAAAAGACAGATTGACAAGAGAAAAACAAACATAAATTTATTAGCGGG
TATATGTAATATATATGTGGAAATACAGGGGAATGAGCAAAATCTCAAAGAGCTGGCGTCTTAGAACTCCCTGGC
TTATATAGCATCGACAAAGAACAGTAAATTTTTAGAGAAACAACAAAACAAAGAAAAAGAGCTTTGAGTCTGTAG
GGGCAGCAATTTGGGGGAAGCAATATATGGGAGTTTGCTTGTAGATTCTCTGGTGGTGGTCTCCAGGCTGAC
AAGGATTCAAAGTTGTCTCTGAAACTCCTCTTTGTCATCTGCACATATAAAACGCTTTTTGTTTTCCAACAAGAG
GATTTCTTTTTTCACTTAGAATTATCTCCTTGATAACTTGATCAGATATAGGACATGACACTGAATAGAGTCCAA
CAGTACAAAAAAATTCAGTATGTTCTAGCTACTTCACACATGTGTACGCGACAGTTATTTTTACAGTAAGGTAT
TTTCGAGAAAAATGCATTACGTGTTTTGGAAAAATAGAGTAATTTAAAAAATATATTTGAAATGAAATCTCCAAC
ACATTAGAAGATGATGATGTTAGATGCCCATCGTGTGCCACAAGTGGTTTTTTCATTATGTAAAGCACCCGTTGA

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FIGURE 2049B

ATTAAAAGAATTTGTTTTTGTTC AACCTCTTCCTGAGGCCCAAGAGCATATGGGCAATTCGGATTTCTTGCTGGA
CCACAAGGTTCTGTTGATATTACATAGAAACGGGTATTCCAGACACTTCTTATGATGAAAGTCCAAAAGTGGCAT
CCAATTTAAGGCCCATCTTTGTTGCCATTCTTCATTCTACAAAGGACGAAC TTGGATTACATCAACTTTGGA
CCCATTGGTTTTTGTGCTGTCGTCAACTGACAGTGATTACCACCTGGTGATGATAAAAATGATGGAAGAAGAGTT
GAAAGTCACTTTTTTCTTTGGCCTGTCCCCATCTTTCTGTGACATCACAATGGGTCTGATCTGCATTTCACTTCC
AGCTGCTGGTAGGTCTTTAGCAGGCCTCTGGCACCTCAGCAGTCGGAGGCACAGAAGCTGCAAAAAGGGATCTTCG
AAACTGGGCAGAGAAAAAATAAAGTGGAATATTAAGTAAAAGTTGGGCACTAATCTGGATTAAACATTCGAGGAAA
TCAGTTGAGCTGATTTAAGTTGTTTTTGTGTTTAGCAGGTGTGGATGTGGGGTTATGTGGTCATGCTCAGATC
TACCTAAATCACCCAGAGCTTTATGTCTTTTATTCTAAATCTTATTAACCGGAATATGTAGGACCATTTT
AATACCTTGTAATCCTCCAAGCTTCAATCTGCACACACTTTCTATGAGGGCAGGTACAACCTATTAAGAGATTTT
AACATTAAGTTAGTCCACAAATATTCAGTGGGCATCTACTAGGTGACAGCCACTGTGCTATAATTAGAGACTTTT
TACTATAAGCATCAAAAACAGATAAGGCTCTTCCTGGCAGAGTTTACAGCCTGGTGTACTTGCTAATGTCTCTTT
AATTAGGTGAAGAATTTTTTTTTCTATCGAAATTACTAATCAGTTGGGGAAAAAAATACTATAGCAGACAGCAC
TAATGTCATCAACAAACATTGTTCTTCTCCGTGTCCTGGGTACAACATCGAATAATATTTCTTGGCCTCCTTTCC
GCTTCTCCTCTCTGCTGTTCTCTCTACAAGAACCTGGGAGGCCAACGCCTAAAGATCATAATATCACAATGGAA
GGAACCTAGATTCTTAAATGACTGCATAGGACAGATCCCATCTCCTCCACCCAATACATTATTAGACTGAACTGT
GACCTGAAATGAGCAATAAACTCTGTATTAAATCACTGAAATGTTGGGGTTGCTTGTATAGTAGTCGGTCCATC
ATGACCAGTAAACATAAAATCAAAAGTTAATGTAATTGTTATCCCATTTATTAGAGCGAAATAAATGTTGAATAT
ATGGACTTTCTCAGATTAGGAAATACCAATTAAAAATATAATAAATAGCT

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FIGURE 2050

MDSSVIQRKKVAVIGGGLVGSLOACFLAKRNFQIDVYEAREDTRVATFTRGRSINLALSHRGRQALKAVGLEDQI
VSQGIPMRARMIHSLSGKKSAPYGTQSQYILSVSRENLNKDLLTAAEKYPNVKMHFNHRLKCNPEEGMITVLG
SDKVPKDVTCDLIVGCDGAYSTVRSHLMKKPRFDYSQQYIPHGYMELTIPPKNGDYAMEPNYLHIWPRNTFMMIA
LPNMNKSFTCTLFMPFEEFEKLLTSNDVVDFQKYFPDAIPLIGEKLIVQDFFLLPAQPMISVKCSSFHFKSHCV
I' CFAAHAIVPFFGQGMNAGFEDCLVDELMDKFSNDLSLCLPVFSRLRIPDDHAISDLSMYNYIEMRAHVNSSW
• KNMERFLHAIMPSTFIPLYTMVTFSRIRYHEAVQRWHWQKKVINKGLFFLGSLIAISSTYLLIHYMSPRS
I. MRRPWNWIAHFRNTTCFPAKAVDSLEQISNLIS

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FIGURE 2051

GACGCTGCGGGGCGGGCGGACAGACTGCGGGACGGACGGTGGACGCTGGGACGCGTTTGTAGCTCCGGCCCCGCC
GTTCCGACCCCCGCCGCGTCGCCGCCATGACGGGGCTAGCACTGCTCTACTCCGGGGTCTTCGTGGCCTTCTGG
GCCTGCGCGCTGGCCGTGGGAGTCTGCTACACCATTTTTGATTGGGGCTTCGCTTTGATGTGGCATGGTTCCTG
ACGGAGACTTCGCCCTTCATGTGGTCCAACCTGGGCATTGGCCTAGCTATCTCCCTGTCTGTGGTTGGGGCAGCC
TGGGGCATCTATATTACCGGCTCCTCCATCATTGGTGGAGGAGTGAAGGCCCCCAGGATCAAGACCAAGAACCTG
GTCAGCATCATCTTCTGTGAGGCTGTGGCCATCTACGGCATCATCATGGCAATTGTCATTAGCAACATGGCTGAG
CCTTTCAGTGCCACAGACCCCAAGGCCATCGGCCATCGGAACTACCATGCAGGCTACTCCATGTTTGGGGCTGGC
CTCACCGTAGGCCTGTCTAACCTCTTCTGTGGAGTCTGCGTGGGCATCGTGGGCAGTGGGGCTGCCCTGGCCGAT
GCTCAGAACCCCCAGCCTCTTTGTAAAGATTCTCATCGTGGAGATCTTTGGCAGCGCCATTGGCCTCTTTGGGGTC
ATCGTCGCAATTCTTCAGACCTCCAGAGTGAAGATGGGTGACTAGATGATATGTGTGGGTGGGGCCGTGCCTCAC
TTTTATTTATTGCTGGTTTTCTGGGACAGCTGGAGCTGTGTCCCTTAGCCTTTCAGAGGCTTGGTGTTCAGGGC
CCTCCCTGCACTCCCTCTTGCTGCGTGTGATTGGAGGCACTGCAGTCCAGGCCGAGTCCCTCAGTGCGGGGAG
CAGGCTGCTGCTGCTGACTCTGTGCAGCTGCGCACCTGTGTCCCCACCTCCACCCTCAACCCATCTTCCTAGTG
TTTGTGAAATAAACTTGGTATTTGTCTGGGTC

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FIGURE 2052

MTGLALLYSGVFVAFWACALAVGVCYTIFDLGFRFDVAWFLTETSPFMWSNLGIGLAISLSVVGAAWGIYITGSS
IIGGGVKAPRIKTKNLVSIIFCEAVAIYGIIMAIVISNMAEPFSATDPKAIGHRNYHAGYSMFGAGLTVGLSNLF
CGVCVGIVGSGAALADAQNPSLFVKILIVEIFGSAIGLFGVIVAILQTSRVKMGD

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FIGURE 2053

GACTGTCTCAGTGGAGCTGGGTCATCTCAGGCCTTGGCTCCTTGAACTTTTGGCCGCCATGTGCTTCCCGAAGGT
CCTCTCTGATGACATGAAGAAGCTGAAGGCCCGAATGCACCAGGCCATAGAAAGATTTTATGATAAAATGCAAAA
TGCAGAATCAGGACGTGGACAGGTGATGTCGAGCCTGGCAGAGCTGGAGGACGACTTCAAAGAGGGCTACCTGGA
GACAGTGGCGGCTTATTATGAGGAGCAGCACCCAGAGCTCACTCCTCTACTTGAAAAAGAAAGAGATGGATTACG
GTGCCGAGGCAACAGATCCCCGTGCCGGATGTTGAGGATCCCGCAACCGAGGAGCCTGGGGAGAGCTTTTGTGA
CAAGGTCATGAGATGGTTCCAGGCCATGCTGCAGCGGCTGCAGACCTGGTGGCACGGGGTTCTGGCCTGGGTGAA
GGAGAAGGTGGTGGCCCTGGTCCATGCAGTGCAGGCCCTCTGGAAACAGTTCCAGAGTTTCTGCTGCTCTCTGTC
AGAGCTCTTCATGTCCTCTTTCCAGTCCTACGGAGCCCCACGGGGGGACAAGGAGGAGCTGACACCCCAGAAGTG
CTCTGAACCCCAATCCTCAAAATGAAGATACTGACACCACCTTTGCCCTCCCCGTCACCGCGCACCCACCCTGAC
CCCTCCCTCAGCTGTCCTGTGCCCCGCCCTCTCCCGCACACTCAGTCCCCCTGCCTGGCGTTTCCTGCCGCAGCTC
TGACCTGGTGCTGTCGCCCTGGCATCTTAATAAAACCTGCTTATACTTCCCTGGAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 2054

MCFPKVLSDDMKKLKARMHQAIERFYDKMQNAESGRGQVMSSLAELEDDFKEGYLETVAAYYEEQHPELTPLLEK
ERDGLRCRGNRSPVPDVEDPATEEPGESFCDKVMRWFQAMLQRLQTWWHGVLAHVKEKVVALVHAVQALWKQFQS
FCCSLSELFMSFQSYGAPRGDKEELTPQKCSEPQSSK

[illegible]

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FIGURE 2055B

ATAAGGGTAAGTCCGAACCTTCTCATACTGGAGGTTACATTACATCAGTCTGTCTTCCCCTGCGGATGGCCTCA
GCCCTGGGTGGCCAGGCTCTGTGCTCACAGTCCAGAGCAATGGATCCTCCAACACCACCAGGTGGATGTGGAGCA
GGAGAGCTGGATCGTGGCATTGTGTTCTGGGTTCTGCAGTTGGGAGTTGGTTTCTGGGTTCTCCATTGGTCTACT
TGTCTAGTCCCATAACCAGACTCACGGTCTCCATTATTGGAGCTTTAATAATTTTTGGTATAGGGTCATCTCTCCA
TGTGTTTCTTCTATTCTTGGTTCCTTGCAATTCTATGAATATTTTCAGGGTCAGCATGTCAACTCCATTGAAA
CTGCTGGGATTTAATAGAACTTACAGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGTGG
ACAGGTCAGGAGTTTGAGAACAGCTGGCCAAGATGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTAGC
TGGGTGCGGTGGCAGGTGCCTGTAGTCCCAGCTACTTGGGACACCGAGGCAGGAGAATCACTTGAACCCGGGAGG
GAGGTTGCAGTGAGCCGAGATCGTGCCACTGCACCTCTAGCCTGGGCGACAGAGCGAGACTCCATCTCAAAAAA
AAGAAAAAGAAAATTGCAGTAAATTTAAACTAATTTGGGGAAGAATCTGTATTTTTACAATACCTAGTGTCT
AGTAAGCATGGTTCATCTTCCCATTTATTTACGTCAATTTAAATCTTTCAGTGATGTTTTAGAATTTTTTT
AAAAAACCTTCACTATAAGAACAGAAAACCAAACACCGCATGTTCTCACTCATAGGTGGGAATTGAACAATGA
CAACTTGGACACAGGGCGGGGAACGTACACGCCTGGACTGTTGGGGGGGTGGCTGGGAGAGGGATAGTGTTA
GGAGAAATACCTAATGTAAATGACGAGTTAATGGTGCAGCCAACCAACCTGGCACATGTATTCATATGTAACAA
CCTGCACGTTGTGCACATGTACCCTAGAACTTAAAGTATATTAAAAAAGAAACCTTGGCACTGATTTTGTTAGA
TTTATTCCTAGGTATCCTTCCTCTTTTTTGATTTGTCAATTGCTATTGTAGATGGCATCTTTTTAAAAAGTTATAT
TTCTAAAGCAAAAAATAAAAAAGTTGTATTTCTAATTTTTATTACCAATATATAAGAATGTAATTTATTTTA
CATAATTATCTTATGTCTAGTAATAATTCTGATAATTTGCTTCTTCCTATTAAACCTTACACCCATTATTGATT
TATTTTTCTGTTTTAAATATCTTCCTGCACCTGGCTAAAACCTCCACTATAATGTTGAGCAGAACAGTGAGGCAT
CCTTAGAACTATCTTGGTTGCAAAGGGTAGGTCTCTAATGTTTCATCAATAAATGTGATGTTTCTAGTCTGAGTT
TGCTAAGTATATTTTAAATAATCAGTAAAGTTAGATTTTATCCATTTTTATCTTAATTGAGATGCTCATAT
CATTTTTCTTCTTCAATGTGTTAAATGGTGA

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FIGURE 2056

MLRGTLCAVLGLLRAQPFPCPPACKCVFRDAAQCSGGDVARISALGLPTNLTHILLFGMGRGVLQSQSFSGMTV
LQRLMISDSHISAVAPGTFSDLIKLKTLLSRNKITHLPGALLDKMVLLEQLFLDHNALRGIDQNMFOKLVLNLQE
LALNQNLDFLPASLFTNLLENKLLDLSGNNLTHLPKGLLGAQAKLERLLHLSNRLVSLDSGLLNSLGALTELOF
HRNHRSIAPGAFDRLPNLSSLTLSRNHLAFLPSALFLHSHNLTLLTLFENPLAELPGVLFGEMGGLQELWLNRT
QLRTLPAAAFRLNLSRLRYLGVTLSPLSALPQGAFOGLGELQVLALHSNGLTALPDGLLRGLGKLRQVSLRRNRL
RALPRALFRNLSSLESVQLDHNQLETLPGDVFGALPRLTEVLLGHNSWRCDGGLGPFGLWLRQHLGLVGGEPPR
CAGPGAAGLPLWALPGGDAECPGPRGPPRPAADSSSEAPVHPALAPNSSEPWWAQPVTGKGQDHSPFWGFY
FLLAVQAMITVIVFAMIKIGQLFRKLIRERALG

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FIGURE 2057

AGACAAAAAGTAACCTTCCTGAAGAGGACATGTGATTGGAAGTTGTCAATTGTTGAAGCATTGGTAACTCCAGTC
TCTAACGTTTTAGAAAATCATAACAAGCGTTCTGTACCCTGTAAAGAACAGAAACCTGGAAATCTAAGGCTCAA
AGACATCCAAGTAATTGGTATCTGGGAGATTTGGGATTCAAACCCAGCTCTGCTTGACTTGGTGAACCTACTGAGT
TCTTCATTATGCTCTGATGGAGATTATGATTACCTCATCAAGTTTTTAGCTTTGGGAGACTCTGGTGTAGGGAAGA
CCAGTGTAACCTTACCAATATACAGATGGTAAATTTAACTCCAAATTTATCACAACAGTGGGCATTGATTTCAGGC
CAAAAAGAGTGGTGTACAGAGCCAGTGGGCCGGATGGACCAGTAGGTAGAGGCCAGAGAATCCACCTGCAGTTAT
GGGACACAGCAGGGCAGGAGAGGTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGGGTTTTCTTCTAC
TTTTTGATCTGACAAATGAGCAAAGTTTCCTCAATGTCAGAACTGGATAAGCCAGCTACAGATGCATGCATATT
GTGAAAACCCAGATATAGTGCTGTGTGGAAACAAGAGTGATCTGGAGGACCAGAGAGTAGTGAAAGAGGAGGAAG
CCATAGCACTCGCAGAGAAATATGGAATCCCCTACTTTGAACTAGTGCTGCCAATGGGACAAACATAAGCCAAG
CAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACGGTGTGTGGACAAGTCCTGGATTCTGAAGGAG
TGGTGCGATCAAATGGTCATGCCTCTACGGATCAGTTAAGTGAAGAAAAGGAGAAAGGGGCATGTGGCTGTGAG
AAGTCAAGTAACGACATAGTAGTTTCAAGTGGCCCATGCCTGGGATCTTCTCTATGATTGATACATGGCACAGTGA
GAGATTAATGGGCATTGTGTACAAATTGCTTCTCACCATCCCCATTAGACCTACGAATAAAGCATCCGGTTCTAA
AATTAAAAAAA

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FIGURE 2058

MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFRPKRVVYRASGPDGPVGRGQRIHLQLWDT
AGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRRVKEEEAIA
LAEKYGIPYFETSAANGTNISQAIEMLLDLMKRMERCVDKSWIPEGVVRSNGHASTDQLSEEKEKGACGC

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FIGURE 2059

GGCCACAGGCCAGCGCCACTCTGCCAGGCTCCCGGCCATCGCCCGCCTGGTGCGCCGCCCGCCAGCTCTTTGCCC
GCGCGGGGCGCCCGCCGCGGGCTCAGGGCAGACCATGCGCCCGCCAAGTCCGCTGCCCGCCCGCTGGCTATGCG
TGCTGGCAGGCGCCCTCGCCTGGGCCCTTGGGCCGGCGGCCAGGCGGCCAGGCTGCAGGAGGAGTGTGACT
ATGTGCAGATGATCGAGGTGCAGCACAAAGCAGTGCCTGGAGGAGGCCAGCTGGAGAATGAGACAATAGGCTGCA
GCAAGATGTGGGACAACCTCACCTGCTGGCCAGCCACCCCTCGGGGCCAGGTAGTTGTCTTGGCCTGTCCCCCTCA
TCTTCAAGCTCTTCTCCTCCATTCAAGGCCGCAATGTAAGCCGCAGCTGCACCGACGAAGGCTGGACGCACCTGG
AGCCTGGCCCGTACCCCATTCCTGTGGTTTGGATGACAAGGCAGCGAGTTTGGATGAGCAGCAGACCATGTTCT
ACGGTTCTGTGAAGACCGGCTACACCATTGGCTACGGCCTGTCCCTCGCCACCCCTTCTGGTCGCCACAGCTATCC
TGAGCCTGTTTCAAGAGCTCCACTGCACGCGGAACCTACATCCACATGCACCTCTTCATATCCTTCATCCTGAGGG
CTGCCGCTGTCTTCATCAAAGACTTGGCCCTCTTCGACAGCGGGGAGTCGGACCAAGTGTCCGAGGGCTCGGTGG
GCTGTAAGGCAGCCATGGTCTTTTCCAATATTGTGTGATGGCTAACTTCTTCTGGCTGCTGGTGGAGGGCCTCT
ACCTGTACACCCCTGCTTGGCGTCTCCTTCTTCTGTAGCGGAAGTACTTCTGGGGGTACATACTCATCGGCTGGG
GGGTACCCAGCACATTACCATGGTGTGGACCATCGCCAGGATCCATTTTGAGGATTATGGGTGCTGGGACACCA
TCAACTCCTCACTGTGGTGGATCATAAAGGGCCCCATCCTCACCTCCATCTTGGTAACTTCATCCTGTTTATTT
GCATCATCCGAATCCTGCTTCAGAACTGCGGCCCCAGATATCAGGAAGAGTGACAGCAGTCCATACTCAAGGC
TAGCCAGGTCCACACTCCTGCTGATCCCCCTGTTTGGAGTACACTACATCATGTTCCGCTTCTTTCCGGACAATT
TTAAGCCTGAAGTGAAGATGGTCTTTGAGCTCGTGGGGTCTTTCCAGGGTTTGTGGTGGCTATCCTCTACT
GCTTCTCAATGGTGAAGTGCAGGCGGAGCTGAGGCGGAAGTGGCGGCGCTGGCACCTGCAGGGCGTCTGGGCT
GGAACCCCAAATACCGGCACCCGTCGGGAGGCAGCAACGGCGCCACGTGCAGCACGCAGGTTTCCATGCTGACCC
GCGTCAGCCAGGTGCCCGCCGCTCCTCCAGCTTCCAAGCCGAAGTCTCCCTGGTCTGACCACCAGGATCCCAGG
GGCCCAAGGCGGCCCTCCCGCCCTTCCCACTCACCCCGGCAGACGCCGGGGACAGAGGCCTGCCCGGGCGCGG
CCAGCCCCGGCCCTGGGCTCGGAGGCTGCCCCCGGCCCTGGTCTCTGGTCCGGACACTCCTAGAGAACGCAGC
CCTAGAGCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGAGATGGGAGTCTCTCCTGGAGGATTGCAGGTGGAAC
TCAGTCATTAGACTCCTCCTCCAAAGGCCCCCTACGCCAATCAAGGGCAAAAAGTCTACATACTTTTCATCCTGAC
TCTGCCCCCTGCTGGCTCTTCTGCCCAATTGGAGGAAAGCAACCGGTGGATCCTCAAACAACACTGGTGTGACCT
GAGGGCAGAAAGGTTCTGCCCGGGGAAGGTCACCAGCACCAACACCACGGTAGTGCCTGAAATTTACCATTTGCT
GTCAAGTTCTTTGGGTTAAGCATTACCACTCAGGCATTTGACTGAAGATGCAGCTCACTACCCTATTCTCTCTT
TACGCTTAGTTATCAGCTTTTTAAAGTGGGTTATCTGGAGTTTTTGTGGAGAGCACACCTATCTTAGTGTT
CCCCACCGAAGTGGACTGGCCCTGGGTCTAGTCTGGTGGGAGGACGGTGCAACCCAAGGACTGAGGGACTCTGAA
GCCTCTGGGAAATGAGAAGGCAGCCACCAGCGAATGCTAGGTCTCGGACTAAGCCTACCTGCTCTCCAAGTCTCA
GTGGCTTCATCTGTCAAGTGGGATCTGTACACCAGCCATACTTATCTCTCTGTGCTGTGGAAGCAACAGGAATC
AAGAGCTGCCCTCCTTGTCCACCCACCTATGTGCCAAGTGTGTAAGTCTAGGCTCAGAGATGTGCACCCATGGGCT
CTGACAGAAAGCAGATACCTCACCTGCTACACATACAGGATTTGAACTCAGATCTGTCTGATAGGAATGTGAAA
GCACGGACTCTTACTGCTAACTTTTGTGTATCGTAACCAGCCAGATCCTCTTGGTTATTTGTTTACCACTTGTAT
TATTAATGCCATTATCCTGAATTCCCCTTGCCACCCACCCCTCCCTGGCGTGTGGCTGAGGAGGCCTCCATCTCA
TGTATCATCTGGATAGGAGCCTGCTGGTCACAGCCTCCTCTGTCTGCCCTTACCCCAAGTGGCCACTCAGCTTCC
TACCCACACCTCTGCCAGAAGATCCCCTCAGGACTGCAACAGGCTTGTGCAACAATAAATGTTGGCTTGA

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FIGURE 2060

MRPPSPLPARWLCVLAGALAWALGPAGGQAARLQEECDYVQMIEVQHKQCLEEAQLENETIGCSKMWDNLTWCWPA
TPRGQVVVLACPLIFKLFSSIQGRNVSRSCDEGWTHLEPGYPPIACGLDDKAASLDEQQTMFYGSVKGTGYTIGY
GLSLATLLVATAILSLFRKLHCTRNYIHMHLFISFILRAAAVFIKDLALFDSGESDQCSEGSVGCKAAMVFFQYC
VMANFFWLLVEGLYLYTLLAVSFFSERKYFWGYILIGWGPSTFTMVWTIARIHFEDYGCWDTINSSLWWIIKGP
ILTSILVNFILFICIRILLQKLRPDIRKSDSSPYSRLARSTLLLIPLFGVHYIMFAFFPDNFKPEVKMVFELV
VGSFQGFVVAILYCFLNGEVQAE LRKWRRWHLQGVLGWNPKYRHPSGGSNGATCSTQVSMLTRVSPGARRSSSF
QAEVSLV

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FIGURE 2061

TAACCCGCCGCTCCGCTCTCCCCGGCTGCAGGCGGCGTGCAGGACCAGCGGCGGCGTGCAGGCGGAGGACTTC
GGCGCGGCTCCTCCTGGGTGTGACCCCGGGCGCGCCCGCGCGACGATGAGGGCGGCGCCGAGGTCTGCGAG
GCGCTGCTCTTCGCCCTGGCGCTCCAGACCGGCGTGTGCTATGGCATCAAGTGGCTGGCGCTGTCCAAGACACCA
TCGGCCCTGGCACTGAACCAGACGCAACACTGCAAGCAGCTGGAGGGTCTGGTGTCTGCACAGGTGCAGCTGTGC
AGCAACCTGGAGCTCATGCACACGGTGGTGCACGCCCGCCGCGAGGTTCATGAAGGCCTGTCGCCGGGCGCTTT
GACATGCGCTGGAAGTGTCTCCTCCATTGAGCTCGCCCCCAACTATTTGCTTGACCTGGAGAGAGGGACCCGG
GCTCGGCCTTCGTGTATGCGCTGTGCGCCCGCCCATCAGCCACGCCATCGCCCGGGCCTGCACCTCCGGCGAC
CTGCCCGGCTGCTCCTGCGGCCCCGTCCCAGGTGAGCCACCCGGGCCCCGGAACCGCTGGGGAGGATGTGCGGAC
AGCTCAGCTACGGGCTCCTCATGGGGGCCAAGTTTTCCGATGCTCCTATGAAGGTGAAAAAACAGGATCCCAA
AATAAACTGATGCGTCTACACAACAGTGAAGTGGGGAGACAGGCTCTGCGCGCCTCTCTGGAAATGAAGTGT
AGCTGCCATGGGGTGTCTGGCTCCTGCTCCATCCGCACCTGCTGGAAGGGGCTGCAGGAGCTGCAGGATGTGGCT
AGACCTCAAGACCCGATACCTGTGCGCCACCAAGGTAGTGCACCGACCCATGGGCACCCGCAAGCACCTGGTG
CAAGGACCTGGATATCCGGCCTGTGAAGGACTCGGAACCTCGTCTATCTGCAGAGCTCACCTGACTTCTGCATG
AAGAATGAGAAGGTGGGCTCCACGGGACACAAGACAGGCAGTGCACAAGACATCCAACGGAAGCGACAGCTGC
GACCTTATGTGCTGCGGGCGTGGCTACAACCCCTACACAGACCGCGTGGTTCGAGCGGTGCCACTGTAAGTACCAC
TGGTGTCTGCTACGTCACCTGCCGCAGGTGTGAGCGTACCGTGGAGCGCTATGTCTGCAAGTGAGGCCCTGCCCTC
CGCCCCACGCAGGAGCGAGGACTCTGCTCAAGGACCTCAGCAACTGGGGCCAGGGGCTGGAGACACTCCATGG
AGCTCTGCTTGTGAATTCCAGATGCCAGGCATGGGAGGCGGCTTGTGCTTTGCCTTCACCTGGAAGCCACCAGGA
ACAGAAGGTCTGGCCACCCTGGAAGGAGGGCAGGACATCAAAGGAAACCGACAAGATTAAAAATAACTTGGCAGC
CTGAGGCTCTGGAGTGCCACAGGCTGGTGTAAAGAGCGGGGCTTGGGATCGGTGAGACTGATACAGACTTGACC
TTTCAGGGCCACAGAGACCAGCCTCCGGGAAGGGGTCTGCCCCGCTTCTTCAGAATGTTCTGCGGGACCCCTGG
CCCACCCTGGGGTCTGAGCCTGCTGGGCCCCACCACATGGAATCACTAGCTTGGGTTGTAAATGTTTTCTTTTGT
TTTTGCTTTTTCTTCTTTGGGATGTGGAAGCTACAGAAATATTTATAAAACATAGCTTTTTCTTTGGGGTGGCA
CTTCTCAATTCCTCTTTATATATTTTATATATATAAATATATATGTATATATATAATGATCTCTATTTTAAACT
AGCTTTTTTAAGCAGCTGTATGAAATAAATGCTGAGTGAGCCCCAGCCCGCCCCTGCAGTTCCCGGCTCGTCAAG
TGAACTCGGCAGACCCTGGGGCTGGCAGAGGGAGCTCTCCAGTTTCCAGGCA

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FIGURE 2062

MRARPQVCEALLFALALQTGVCYGIKWLALSKTPSALALNQTQHCKQLEGLVSAQVQLCRSNLELMHTVVHAARE
VMKACRRAFADMWRWNCSSIELAPNYLLDLERGTRESAFVYALSAAAISHAIARACTSGDLPGCSCGPVPGEPGP
GNRWGGCADNLSYGLLMGAKFSDAPMKVKKTGSQANKLMRLHNSEVGRQALRASLEMCKCKCHGVSGSCSIRTCWK
GLQELQDVAADLKTRYLSATKVVHRPMGTRKHLVPKDLDIRPVKDSELVYLQSSPDFCMKNEKVGSHGTQDRQCN
KTSNGSDSCDLMCCGRGYNPYTDRVVERCHCKYHWCCYVTCRRCERTVERYVCK

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FIGURE 2063

GGCACGAGGGGCGGCGGAGCCGACTCGTCGCGGCCGAGGCGCACGCGGTCCGCGCCGGCGTCAGTCTGGGATTGG
CCGGCCCCGCGACTTCCCTCCGCCCCCTGCCAATCGCCGGGGACGACTTCCGTGGGTTTTTCCGGCTCTCCCGCGTC
GCTAAGGAGCGACGGGCTGTGCGCCAGACCCCGAGTTCTCGGTGCGCTCAGCGGCCGCCGACGCTAGGAGGCCGC
GCTCCGCCCCCGCTACCATGAGGCCCCGGAAGCCTTCTGCTCCTGCTGCTCTTGGGGCTGGTGCAGCTGCTGG
CCGTGGCGGGTGCCGAGGGCCCGGACGAGGATTCTTCTAACAGAGAAAATGCCATTGAGGATGAAGAGGAGGAGG
AGGAGGAAGATGATGATGAGGAAGAAGACGACTTGGAAGTTAAGGAAGAAAATGGAGTCTTGGTCTAAATGATG
CAAACTTTGATAATTTTGTGGCTGACAAAGACACAGTGCTGCTGGAGTTTTATGCTCCATGGTGTGGACATTGCA
AGCAGTTTGCTCCGGAATATGAAAAATTGCCAACATATTAAAGGATAAAGATCCTCCCATTCCTGTTGCCAAGA
TCGATGCAACCTCAGCGTCTGTGCTGGCCAGCAGGTTTGATGTGAGTGGCTACCCACCATCAAGATCCTTAAGA
AGGGGCAGGCTGTAGACTACGAGGGCTCCAGAACCCAGGAAGAAATGTGTGCCAAGGTCAGAGAAGTCTCCAGC
CCGACTGGACGCTCCACCAGAAGTCACGCTTGTGTTGACCAAAGAGAACTTTGATGAAGTTGTGAATGATGCAG
ATATCATTCTGGTGGAGTTTTATGCCCCATGGTGTGGACACTGCAAGAACTTGCCCCGAGTATGAGAAGGCCG
CCAAGGAGCTCAGCAAGCGTTCTCCTCCAATTCCCCTGGCAAAGGTCGACGCCACCGCAGAAACAGACCTGGCCA
AGAGGTTTGATGTCTCTGGCTATCCACCCCTGAAAATTTCCGCAAAGGAAGGCCTTATGACTACAACGGCCAC
GAGAAAAATATGGAATCGTTGATTACATGATCGAGCAGTCCGGGCCTCCCTCCAAGGAGATTCTGACCCTGAAGC
AGGTCCAGGAGTTCTGAAGGATGGAGACGATGTATCATCATCGGGGTCTTTAAGGGGAGAGTGACCCAGCCT
ACCAGCAATACCAGGATGCCGCTAACAACTGAGAGAAGATTACAAATTTACCACACTTTCAGCACAGAAATAG
CAAAGTTCTTGAAAGTCTCCCAGGGGAGTTGGTTGTAATGCAGCCTGAGAAATTCAGTCCAAGTATGAGCCCC
GGAGCCACATGATGGACGTCCAGGGCTCCACCCAGGACTCGGCCATCAAGGACTTCGTGCTGAAGTACGCCCTGC
CCCTGGTTGGCCACCGCAAGGTGTCAAACGATGCTAAGCGCTACACCAGGCGCCCCCTGGTGGTCTGCTACTACA
GTGTGGACTTCAGCTTTGATTACAGAGCTGCAACTCAGTTTTGGCGGAGCAAAGTCCTAGAGGTGGCCAAGGACT
TCCCTGAGTACACCTTTGCCATTGCGGACGAAGAGGACTATGCTGGGGAGGTGAAGGACCTGGGGCTCAGCGAGA
GTGGGGAGGATGTCAATGCCGCCATCCTGGACGAGAGTGGGAAGAAGTTCGCCATGGAGCCAGAGGAGTTTGACT
CTGACACCCTCCGCGAGTTTGTCACTGCTTTCAAAAAAGGAAAATGAAGCCAGTCATCAATCCCAGCCAGTGC
CCAAGAACAACAAGGGACCCGTCAAGGTCTGTGGTGGGAAAGACCTTTGACTCCATTGTGATGGACCCCAAGAAGG
ACGTCTCATCGAGTTCTACGCACCATGGTGCGGGCACTGCAAGCAGCTAGAGCCCGTGTACAACAGCCTGGCCA
AGAAGTACAAGGGCCAAAGGGCCTGGTCATCGCCAAGATGGACGCCACTGCCAACGACGTCCCCAGCGACCGCT
ATAAGGTGGAGGGCTTCCCCACCATCTACTTCGCCCCCAGTGGGGACAAAAGAACCAGTTAAATTTGAGGGTG
GAGACAGAGATCTGGAGCATTGAGCAAGTTTATAGAAGAACATGCCACAAAATGAGCAGGACCAAGGAAGAGC
TTTGAAGGCCTGAGGTCTGCGGAAGGTGGGAGGAGGCAGACACCCTGCGTGGCCCATGGTTCGGGGCGTCCACGCC
GAGGCCGGCAACAAACGACAGTATCTCGGATTCCTTTTTTTTTTTTTTTAATTTTTTATACTTTGGTGTTCAC
TTCATGCTCTGAATACTGAATAACCATGAATGACTGAATAGTTTGTAGTCCAGATTTTACAGAGGATACATCTATT
TTTATCATTATTTGGGGTTTGAAAAATTTTTTTTTTACACCTTCTAATTTCTTTATTTCTCAAAGCAGATAATTCT
TCTGTGTGAAAATGTTTTCTTTTTTTAATTTAAGGTTTAAATTCCTTTGCCAAATCATGTTGATTTTGCTCTTT
GCTTTTTCGTTGTCTGAGAAATGTTGGCGTAGATTTGGCTTCTGGTATGTGTTCTGATTGCTTCCTGTTGAGC
ACAAAGTGAGAGCTGCCACTGAGCAGCCCTGCCAGGGGTGCTGTTTCAGGCTGGGCATCGCCAGGCGGCCTCCCT
GCAAACCAAGGGCTGGGGGCAAAGGGGCATGATCCAGGGTCCCCAGGGTGGGCTCAGCTCCAGGGAGAGGCCAC
CCACGTGGCAGCCCCACCTCTTGAGAGCCCCCAGTGCCGGAGCAGAAAGGACCCTGGACCCAGAGGCAGATACTG
CGGGGTGGTAGAAAAGGTAGAGTAGGCTGTGGCAATGGAATAAAACACGATTAAAAACGTAAAAAAAAAAAAAA
AAAAA

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FIGURE 2064

MRPRKAFLLLLLLGLVQLLAVAGAEGPDEDSSNRENAIEDEEEEEEDDDDEEEDDLEVKEENGVLVLNDANFDNF
VADKDTVLLLEFYAPWCGHCKQFAPEYEKIANILKDKDPPIPVAKIDATSASVLASRFDVSGYPTIKILKKGQAVD
YEGSRTQEEIVAKVREVSQPDWTPPEVTLVLTKENFDEVNDADIILVEFYAPWCGHCKKLAPEYEKAAKELSK
RSPPIPLAKVDATAETDLAKRFDVSGYPTLKIFRKGRPYDYNGPREKYGIVDYMIEQSGPPSKEILTTLKQVQEF
KDGDVVIIGVFKGESDPAYQQYQDAANNLREDYKFHHTFSTEIAKFLKVSQGQLVVMQPEKFQSKYEPRSHMD
VQGSTQDSAICKDFVLKYALPLVGHKVSNDKRYTRRPLVVVYYSVDFSFYRAATQFWRSKVLEVAKDFPEYTF
AIADEEDYAGEVKDLGLSESGEDVNAILDESGKKFAMEPEEFDSDTLREFVTAFKKGKLPVIKSQPVPKNNKG
PVKVVVGKTFDSIVMDPKKDVLIIEFYAPWCGHCKQLEPVYNSLAKKYKGQKGLVIAKMDATANDVPSDRYKVEGF
PTIYFAPSGDKKNPVKFEGGDRDLEHLSKFIEEHATKLSRTKEEL

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FIGURE 2065

GGAATTCCTGATATACACCTGGACCACCACCAATGGATATACAAATGGCAAACAATTTTACTCCGCCCTCTGCA
ACTCCTCAGGGAAATGACTGTGACCTCTATGCACATCACAGCACGGCCAGGATAGTAATGCCTCTGCATTACAGC
CTCGTCTTCATCATTTGGGCTCGTGGGAAACTTACTAGCCTTGGTCGTCATTGTTCAAAACAGGAAAAAATCAAC
TCTACCACCTCTATTCAACAAATTTGGTGATTTCTGATATACTTTTTACCACCGCTTGCCTACACGAATAGCC
TACTATGCAATGGGCTTTGACTGGAGAATCGGAGATGCCTTGTGTAGGATAACTGCGCTAGTGTTTTACATCAAC
ACATATGCAGGTGTGAACTTTATGACCTGCCTGAGTATTGACCGCTTCATTGCTGTGGTGCACCCTCTACGCTAC
AACAAAGATAAAAAGGATTGAACATGCAAAAGGCGTGTGCATATTTGTCTGGATTCTAGTATTTGCTCAGACACTC
CCACTCCTCATCAACCCTATGTCAAAGCAGGAGGCTGAAAGGATTACATGCATGGAGTATCCAACTTTGAAGAA
ACTAAATCTCTTCCCTGGATTCTGCTTGGGGCATGTTTCATAGGATATGTACTTCCACTTATAATCATTCTCATC
TGCTATTCTCAGATCTGCTGCAAACCTCTCAGAACTGCCAAACAAAACCCACTCACTGAGAAATCTGGTGTAAC
AAAAAGGCTCTCAACACAATTATTCTTATTATTGTTGTGTTTGTCTCTGTTTCACACCTTACCATGTTGCAATT
ATTCAACATATGATTAAGAAGCTTCGTTTCTCTAATTTCCCTGGAATGTAGCCAAAGACATTCGTTCCAGATTTCT
CTGCACTTTACAGTATGCCTGATGAACCTCAATTGCTGCATGGACCCTTTTATCTACTTCTTTGCATGTAAAGGG
TATAAGAGAAAGGTTATGAGGATGCTGAAACGGCAAGTCAGTGTATCGATTTCTAGTGCTGTGAAGTCAGCCCCT
GAAGAAAATTCACGTGAAATGACAGAAACGCAGATGATGATACATTCCAAGTCTTCAAATGGAAAGTGAAATGGA
TTGTATTTTGGTTTATAGTGACGTAAACTGTATGACAACTTTGCAGGACTTCCCTTATAAAGCAAAATAATTGT
TCAGCTTCCAATTAGTATTCTTTTATATTCTTTTCATTGGGCACCTTCCCATCTCCAACTCGGAAGTAAGCCCAA
GAGAACAACATAAAGCAAACAACATAAAGCACATAAAATGCAAATAAATATTTTCAATTTTATTTGTAAACGA
ATACACCAAAGGAGGCGCTCTTAATAACTCCCAATGTAAAAAGTTTTGTTTTAATAAAAAATTTAATTATTATT
TCTTGCCAACAAATGGCTAGAAAGGACTGAATAGATTATATATTGCCAGATGTTAATACTGTAACATACTTTTTA
AATAACATATTTCTTAAATCCAAATTTCTCTCAATGTTAGATTTAATTCCTCAATAACACCAATGTTTTGTTTT
GTTTCGTTCTGGGTCATAAACTTTGTTAAGGAACCTTTTGGAATAAAGAGCAGGATGCTGC

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FIGURE 2066

MDIQMANNF TPPSATPQGND CDLYAHHSTARIVMPLHYSLVFIIIGLVGNLLALVVIVQNRKKINSTTLYSTNLVI
SDILFTTALP TRIAYYAMGFDWRIGDALCRITALVFYINTYAGVNFMTCLSIDRFIAVVHPLRYNKKIKRIEHAKG
VCIFVWILVFAQTLPLLINPMSKQEAERITCMEYPNFEETKSLPWILLGACFIGYVLPLIIILICYSQICCKLFR
TAKQNPLTEKSGVNNKALNTIILIIIVFVLCFTPYHVAIIQHMIKKLRFSNFLECSQRHSFQISLHFTVCLMNFN
CCMDPFIYFFACKGYKRKVMRMLKRQVSVSISAVKSAPEENSREMTETQMMIHSKSSNGK

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FIGURE 2067

GGGAGCACAGTCCGCCGAGCACAAAGCTCCAGCATCCCGTCAGGGGTTGCAGGTGTGTGGGAGGCTTGAACTGT
TACAATATGGCTTTTCCTTGGACTCTTCTCTTTGCTGGTTCTGCAAAGTATGGCTACAGGGGCCACTTTCCCTGAG
GAAGCCATTGCTGACTTGTGAGTGAATATGTATAATCGTCTTAGAGCCACTGGTGAAGATGAAAAATATTCTCTTC
TCTCCATTGAGTATTGCTCTTGCAATGGGAATGATGGAACCTGGGGCCCAAGGATCTACCCAGAAAGAAATCCGC
TCAATGGGATATGACAGCCTAAAAAATGGTGAAGAATTTTCTTTCTTGAAGGAGTTTCAAACATGGTAAC
AAAGAGAGCCAATATGTGATGAAAATTGCCAATTCCTTGTGTTGTGCAAAATGGATTTCATGTCAATGAGGAG
TTTGTCAAATGATGAAAAATATTTTAATGCAGCAGTAAATCATGTGGACTTCAGTCAAAATGTAGCCGTGGCC
AACTACATCAATAAGTGGGTGGAGAATAACACAAACAATCTGGTGAAAGATTTGGTATCCCCAAGGGATTTTGAT
TGGCACTTATCTGGCCCTCATTAAATGCTGTCTATTTCAAGGGGAAGTGAAGTCGCAGTTTAGGCCTGAAAT
ATAGAACCTTTTCTTCACTAAAGATGATGAAAGTGAAGTCCAAATCCAATGATGTATCAGCAAGGAGAATTT
TATGGGGAAATTTAGTGATGGCTCCAATGAAGCTGGTGGTATCTACCAAGTCCTAGAAATACCATATGAAGGA
ATGAAATAAGCATGATGCTGGTGCTGTCCAGACAGGAAGTTCCTCTTGCTACTCTGGAGCCATTAGTCAAAGCA
CAAGCTGGTTGAAGAATGGGCAACTCTGTGAAGAAGCAAAAAGTAGAAGTATACCTGCCAGGTTACAGTGGAA
CAGGAAATTGATTTAAAAGATGTTTTGAAGGCTCTTGAATAAAGTGAATTTTCATCAAAGATGCAATTTGACA
GGCTCTCTGATAATAAGGAGATTTTTCTTTCCAAAGCAATTCACAAGTCCTTCCTAGAGGTTAATGAAGAAGGC
TCAGAAGCTGCTGCTGTCTCAGGAATGATTGCAATTAGTAGGATGGCTGTGCTGTATCCTCAAGTTATTGTGAC
CATCCATTTTTCTTTCTTATCAGAAACAGGAGAACTGGTACAATTCATTCATGGGACGAGTCATGCATCCTGAA
ACAATGAACACAAGTGGACATGATTTGAAGAAGTAAAGTTACTTTATTTGAATAACAAGGAAAACAGTAACTA
AGCACATTATGTTTGCAACTGGTATATATTTAGGATTTGTGTTTTACAGTATATCTTAAGATAATATTTAAAATA
GTTCCAGATAAAAACAATATATGTAAATTATAAGTAACTTGTCAGGAATGTTATCAGTATTAAGCTAATGGTCC
TGTTATGTCATTGTGTTTGTGTGCTGTTGTTTAAAATAAAAGTACCTATTGAACATGTG

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FIGURE 2068

MAFLGLFSLVLQSMATGATFP EEAIADLSVNMYNRLRATGEDENILFSPLSIALAMGM MELGAQGSTQKEIRHS
MGYDSLKNGEEFSFLKEFSNMVTAKESQYVMKIANSLFVQNGFHVNEEF LQMMKKYFNAAVNHVDFSONVAVANY
INKWVENNTNNLVKDLVSPRDFDAATYLALINAVYFKGNWKSQFRPENTRTFSFTKDD ESEVQIPMMYQQGEFYY
GEFSDGSNEAGGIYQVLEIPYEGDEISMMLVLSRQEVPLATLEPLVKAQLVEEWANSVKKQKVEVYLPRFTVEQE
IDLKDVLKALGITEIFIKDANLTGLSDNKEIFLSKAIHKS FLEVNEEGSEAAAVSGMIAISRMAVLYPQVIVDHP
FFFLIRNRRTGTILFMGRVMHPETMNTSGHDFEEL

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FIGURE 2069

GGCGGCAGCGCCCTGCCGACGCCGGGGAGGGACGCAGGCAGGCGGGCGGGCAGCGGGAGGCGGCACCCCGGTGCTC
CCCGCGGCTCTCGGCGGAGCCCCGCCGCCCGCGGCCATGCCCCGAAGACCCCGGCACAGCATATATAGCAGTG
ACGAGGATGATGAGGACTTTGAGATGTGTGACCATGACTATGATGGGCTGCTTCCCAAGTCTGGAAAGCGTCACT
TGGGGAAAACAAGGTGGACCCGGGAAGAGGATGAAAACTGAAGAAGCTGGTGGAACAGAATGGAACAGATGACT
GGAAAGTTATTGCCAATTATCTCCCGAATCGAACAGATGTGCAGTGCCAGCACCGATGGCAGAAAGTACTAAACC
CTGAGCTCATCAAGGGTCCTTGGACCAAAGAAGAAGATCAGAGAGTGATAGAGCTTGTACAGAAATACGGTCCGA
AACGTTGGTCTGTTATTGCCAAGCACTTAAAGGGGAGAATTGGAAAACAATGTAGGGAGAGGTGGCATAACCACT
TGAATCCAGAAGTTAAGAAAACCTCCTGGACAGAAGAGGAAGACAGAATTATTTACCAGGCACACAAGAGACTGG
GGAACAGATGGGCAGAAATCGCAAAGCTACTGCCTGGACGAAGTATAATGCTATCAAGAACCACTGGAATTCTA
CAATGCGTCGGAAGGTGCAACAGGAAGGTTATCTGCAGGAGTCTTCAAAAGCCAGCCAGCCAGCAGTGGCCACAA
GCTTCCAGAAGAACAGTCATTTGATGGGTTTTGCTCAGGCTCCGCCTACAGCTCACTCCCTGCCACTGGCCAGC
CCACTGTTAACAACGACTATTCTATTACCACATTTCTGAAGCACAAAATGTCTCCAGTCAATGTTCCATACCCCTG
TAGCGTTACATGTAAATATAGTCAATGTCCCTCAGCCAGCTGCCGAGCCATTGAGAGACACTATAATGATGAAG
ACCTTGAGAAGGAAAAGCGAATAAAGGAATTAGAATTGCTCCTAATGTCAACCGAGAATGAGCTAAAAGGACAGC
AGGTGCTACCAACACAGAACCACACATGCAGCTACCCCGGGTGGCACAGCACCACCATTGCCGACCACACCAGAC
CTCATGGAGACAGTGCACCTGTTTCTGTTTGGGAGAACACCACTCCACTCCATCTCTGCCAGCGGATCCTGGCT
CCCTACCTGAAGAAAGCGCCTCGCCAGCAAGGTGCATGATCGTCCACCAGGGCACCATTCTGGATAATGTTAAGA
ACCTCTTAGAATTTGCAGAAACACTCCAATTTATAGATTCTTTCTTAAACACTTCCAGTAACCATGAAAACCTCAG
ACTTGGAATGCCTTCTTTAACTTCCACCCCCCTCATTGGTCACAAATTGACTGTTACAACACCATTTTCATAGAG
ACCAGACTGTGAAAACCTCAAAGGAAAATACTGTTTTTGAACCCAGCTATCAAAGGTCAATCTTAGAAAGCT
CTCCAAGAACTCCTACACCATTCAAACATGCACTTGCAGCTCAAGAAATTAATACGGTCCCCTGAAGATGCTAC
CTCAGACACCCTCTCATCTAGTAGAAGATCTGCAGGATGTGATCAAACAGGAATCTGATGAATCTGGATTTGTTG
CTGAGTTTCAAGAAAATGGACCACCCTTACTGAAGAAAATCAAACAAGAGGTGGAATCTCCAAGTATAAATCAG
GAACTTCTTCTGCTCACACCCTGGGAAGGGGACAGTCTGAATACCCAAGTGTTCACGCAGACCTCGCCTGTGC
GAGATGCACCGAATATTCTTACAAGCTCCGTTTTAATGGCACCAGCATCAGAAGATGAAGACAATGTTCTCAAAG
CATTTACAGTACCTAAAAACAGGTCCCTGGCGAGCCCCTTGCAGCCTTGTAGCAGTACCTGGGAACCTGCATCCT
GTGGAAAGATGGAGGAGCAGATGACATCTTCCAGTCAAGCTCGTAAATACGTGAATGCATTCTCAGCCCGGACGC
TGGTCACTGAGACATTTCCAGAAAAGCATTATGTTTTTCAAGACAGTTCAAGTTGACTTGGGATATATCATTC
TCAACATGAACTTTTCATGAATGGGAGAAGAACCTATTTTTGTTGTGGTACAACAGTTGAGAGCACGACCAAGT
GCATTTAGTTGAATGAAGTCTTCTTGGATTTACCCAACTAAAAGGATTTTTAAAAATAAATAACAGTCTTACCT
AAATTATTAGGTAATGAATTGTAGCCAGTTGTTAATATCTTAATGCAGATTTTTTTAAAAAAAACATAAAATGA
TTTATCTGGTATTTTAAAGGATCCAACAGATCAGTATTTTTCTGTGATGGGTTTTTTGAAATTTGACACATTA
AAAGGTACTCCAGTATTTCACTTTTCTCGATCACTAAACATATGCATATATTTTTAAAAATCAGTAAAGCATT
CTCTAAGTGTAGACTTAATACCATGTGACATTTAATCCAGATTGTAATGCTCATTATGGTTAATGACATTGAA
GGTACATTTATTGTACCAAACCATTTTATGAGTTTTCTGTTAGCTTGCTTTAAAAATTATTACTGTAAGAAATAG
TTTTATAAAAAATTATATTTTTATTTCAGTAATTTAATTTTGTAATGCCAAATGAAAAACGTTTTTTGCTGCTAT
GGTCTTAGCCTGTAGACATGCTGCTAGTATCAGAGGGGCAGTAGAGCTTGGACAGAAAAGAAAAGAACTTGGTGT
TAGGTAATTGACTATGCACTAGTATTTTCACTTTTTTAAATTTTATATATATATACATTTTTTTCTTCTGCAAT
ACATTTGAAAACCTTGTTTGGGAGACTCTGCATTTTTTTATTGTTGTTTTTTGTTATTGTTGGTTTATACAAGCAT
GCGTTGCACTTCTTTTTTGGGAGATGTGTGTTGTTTCTATGTTTTGTTTTGTGTGAGCCTGACTGTTTT
ATAATTTGGGAGTTCTCGATTTGATCCGCATCCCCTGTGGTTTTCTAAGTGTATGGTCTCAGAACTGTTGCATGGA
TCCTGTGTTTGCAACTGGGGAGACAGAACTGTGGTTGATAGCCAGTCACTGCCTTAAGAACATTTGATGCAAGA
TGGCCAGCACTGAACTTTTGAGATATGACGGTGTACTTACTGCCTTGTAGCAAAATAAAGATGTGCCCTTATTTT

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FIGURE 2070

MARRPRHSIYSSDEDEDFEMCDHDYDGLLPKSGKRHLGKTRWTREDEKLKKLVEQNGTDDWKVIANYLPNRTD
VQCQHRWQKVLNPELIKGPWTKEEDQRVIELVQKYGPKRWSVIAKHLKGRIGKQCRERWHNHLNPEVKKTSWTEE
EDRIIYQAHKRLGNRWAEIAKLLPGRIDNAIKNHWNSTMRRKVEQEGYLQESSKASQPAVATSFQKNSHLMGFAQ
APPTAQLPATGQPTVNNDYSYYHISEAQNVSSHVPYPVALHVNI VNPQAAAAIQRHYNDEDPEKEKRIKELEL
LLMSTENELKGQQVLPTQNHTCSYPGWHSTTIADHTRPHGDSAPVSC LGEHHSTPSLPADPGSLPEESASPARCM
IVHQGTILDNVKNLLEFAETLQFIDSFLNTSSNHENS DLEMPSLTSTPLIGHKLTVTTPFHRDQTVKTQKENTVF
RTPAIKRSILESSPRTPTPFKHALAAQEIKYGPLKMLPQTPSHLVEDLQDVIKQESDESGFVAEFQENGPP LKK
IKQEVESPTDKSGNFFCSHHWEGDSLNTQLFTQTSPVRDAPNILTSSVLMAPASEDEDNLKAFTVPKNRSLASP
LQPCSSTWEPASCGKMEEQMTSSSQARKYVNAFSARTLVM

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FIGURE 2071A

ATTACGCGTTGCTGAATCTCCTGTGGACAAACCACCAATAGGCCAGGACTGTCCTGTGGACAGACGGGGTGAGC
CTCTTCTTGTGTCTGGAGATTCTGAAAAGATTGTATCACCAGGAGATTTTTCGGGACATTACCAAACCACTCATT
T TAGTGGCTGCCTCCGGGTGATGATGGCTGTGTGAACGACTGCCATGGCCACCGGAAGCTTGAGAGCGTGGGGA
GCGGCATGTTGGACCATAGGGTGAGACCAGGTCCTGTCCCTCACAGCCAGGAGCCCGAGAGCGAGGACATGGAGC
TGCCCTTGGAGGGCTATGTGCCCGAGGGCCTGGAGCTGGCTGCCCTGCGGCCAGAGAGCCCCGCGCCAGAGGAAC
AGGAGTGCCACAACCACAGCCCCGATGGGGACTCCAGCTCTGACTACGTGAACAACACCTCTGAGGAGGAGGACT
ATGACGAGGGCCTCCCTGAGGAGGAGGAGGGCATCACCTACTACATCCGCTACTGCCCTGAGGACGACAGCTACC
TAGAGGGCATGGACTGCAACGGGGAGGAGTACCTGGCCACAGTGCACACCCTGTGGACACTGATGAGTGCCAGG
AGGCGGTGGAGGAGTGGACGGACTCGGCGGGCCCGCACCCCCACGGCCACGAGGCTGAAGGCAGCCAGGACTACC
CAGACGGCCAACTGCCCATTCGGGAGGATGAGCCCTCCGTCCTTGAGGCCCATGACCAGGAAGAAGATGGTCACT
ACTGTGCCAGCAAAGAGGGGTACCAAGACTACTACCCGAGGAGGCCAACGGGAACACCGGCGCCTCCCCCTACC
GCCTGAGGCGTGGGGATGGGGACCTGGAGGACCAGGAGGAGGACATTGACCAGATCGTGGCAGAGATCAAGATGA
GTCTGAGCATGACCAGCATCACCAGCGCCAGTGAGGCCAGCCCCGAGCATGGGCTGAGCCAGGGCCTGAGGACT
CTGTAGAGGCTGCCACCCATCAAGGCCAGCTGCAGCCCCAGCAGGCACGAGGCGAGGCCAAGTCGCTGAACC
TCCTTCCCGAGGCCAAGCACCCCGAGACCCCGAGAGAGGCTTCAAGCCCAAGACCAGGACCCCGAAGAGAGGC
TGAAGTGGCCCCACGAGCAGGTTTGCAATGGTCTGGAGCAGCCAAGGAAGCAGCAGCGCTCTGATCTCAATGGAC
CTGTTGACAATAACAACATTCCAGAGACAAAGAAGGTGGCATCATTTCCAAGTTTGTGGCTGTTCCAGGGCCCT
GCGAACCAGAAGACCTCATCGACGGGATCATCTTTGCTGCCAATTACCTGGGGTCCACCCAGCTGCTATCAGAAC
GGAACCTTCCAAAACATCAGAATGATGCAAGCGCAGGAGGCCGTGAGCCGGGTCAAGAGGATGCAAAAGGCTG
CTAAGATCAAGAAAAAGCGAATTCTGAGGGGGATGCCAGACGCTGACGGAAGTGGACCTCTTCATTTCCACCC
AGAGGATCAAGTTTTAAATGCAGACACGCAGGAAACCATGATGGACCACGCCTTGCGTACCATCTCCTACATCG
CCGACATTGGGAACATTGTAGTGCTGATGGCCAGACGCCGCATGCCCGGTGAGCCTCTCAGGACTGCATCGAGA
CCACGCCCCGGGGCCAGGAAGGCAAGAAGCAGTATAAGATGATCTGCCATGTGTTTCGAGTCGGAGGATGCCCAGC
TCATCGCCAGTCTATCGGCCAGGCCTTCAGCGTGGCTACCAGGAGTTCTGCGAGCCAATGGCATCAACCCCCG
AAGACTTGAGCCAGAAGGAATACAGCGACATCATCAACACCCAGGAGATGTACAACGACGACCTCATCCACTTCT
CAAACCTCGGAGAATGCAAGGAGCTGCAGCTGGAGAAGCACAAGGGCGAGATCCTGGGCGTGGTGGTGGTGGAGT
CGGGCTGGGGCTCCATCCTGCCACGGTGATCTTGCCAACATGATGAATGGCGGCCCGGCTGCCCCGCTCGGGGA
AGCTGAGCATCGGGGACCAGATCATGTCCATCAATGGCACCAGCCTGGTGGGGCTGCCCCCTGCCACCTGCCAAG
GCATCATCAAGGGCCTGAAGAACCAGACACAGGTGAAGCTCAACATTGTGAGCTGTCCCCCGGTACCACGGTCC
TTATCAAGCGGCCAGACCTCAAGTACCAGCTGGGCTTCAGCGTGAGAATGGAATTATCTGCAGCCTCATGAGAG
GGGGCATTGCTGAGCGAGGGGGCGTCCGTGTGGGCCACCGCATCATCGAGATCAACGGGCAGAGCGTGGTGGCCA
CAGCCACGAGAAGATAGTCCAAGCTCTGTCCAACCTCGGTGAGAGATCCACATGAAGACCATGCCCGCCGCCA
TGTTACAGGCTCCTCACGGGTGAGGAGACCCCGTGTACATCTAGGCCACCCAGCCTGGCCACGCAGCCAGGACA
CCGGGCAGGGCCGCCCCGGGCCAGAGGAGCTGGGAGCGGGCCGAGACTTGACCCCGACGCCACAGCCAGCCA
CGGACGCTGGCTCCCCAAAGGGTGTGCCCTACCACCCACTTGATTTTTTTTCAATTTTGCCAAAAGGGGTATGTC
TTTATCAAAGGAGAGTCAACAGAACAAATGTTTGTGTTGTAAAGCGTTCCAAGTATTTTGCCACGTTCTGGACTGTC
TTCTCCCTGCACAAGCCAGGGTGTGTCTCGGTAGCTGTGCGTGGTGTGGAGTGTGTGCTTTCTCCCTGAAGCT
GTGCGGAGCGAACTGGCGCCTCCGAGGGACGCGGCTCCCGGGCAGGGCAGCCGTACCCCTGCCTCCCGCCCCC
TTGGCTGGGACGCTCTGGGGTCTGTGGGGCCCCCACAATGGTCCCAAACAGCTGCCTCTGCCACTGACTGCAGGG
ACACGGGCAGCCTGGCTCCAGGACACGACTTGTAATGAAAGTTTGGGGACATGTGATTGATTGATTGATTGATT
GTAAATAAAGGATGATGGCCACAACATGAAAACCTCATATTTATTTAGATGCTATTATTACTGTTTGGACTTTTA
TTTTGGCAGGCTTTTTTCCAGACTCTAGGGTTTTCCAATGTGACTAATGACCACACCTGCCTCTCCCGTCGTCTC
TTCTGGGCACCCCTCCACCCGGCTGCATACCCGGGCAGGGCTCCACAGAGACAAGGAGGGCACAGGTGTCTGCC
CCCTCTTTAAAATCGATCTACACACATCCACGCACATGCGACCCCGAGGAAACGAAACCCACTCTAGAAAACGCG
ACCTTGCGCCGACCTAAAGCAGCCAGCCGTGAGTGCAGACCCCTTGCCAGCGTGGCGCAGTGGCCCTGAGCAGT
AGTGGCATGTGTGATGATCAAGTCGGATCTAGTCCAGCTCGGTTCAATAGCGATCCATGTAATCTGACGTCATCT
TGTCTCGAAGTCTCTTTTTTGGCCAGGCCTGAAGAATACACTGTGACTTAAGAAGCCTTACCACGCAGTAAC
TAAAGCTTTAGGATGACTGTATTGAGGAGTGCCGTGTGTTGCATGCAGCTACCCGTAGGAAGACTTCGCGCATA

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FIGURE 2071B

TCACTAATAAACCTGAAGTCGTGATGA

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FIGURE 2072

MAHRKLESVSGMGLDHRVRPGVPVPHSQEPESSEDMELPLEGYVPEGLELAALRPESPAPEEQECHNHSPDGDSSSD
YVNNTSEEEDYDEGLPEEEEGITYYIRYCPEDDSYLEGMDCNGEYLAHSAHPVDTECQEAVEEWTD SAGPHPH
GHEAEGSQDYPDRQLPIPEMSPPSLRPMTRKKMVTMCQQRGLPGLLPRGGQREHRLPLPPEAGDGDLEDQEEDI
DQIVAEIKMSLSMTSITSASEASPEHGPEPGPEDSVEACPPIKASCSPSRHEARPKSLNLLPEAKHPGDPQRGFK
RRTIPEERLKWPHQVCNGLEQPRKQQRSDLN GPVDNNNIPETKKVASFSPFVAVPGPCEPEDLIDGIIFAANY
QILSERNPSKNIRMMQAQEAVSRVKRMQKAAKIKKKANSEGDAQTLTEVDLFISTQRIKVLNADTQETMMD
RRTISYIADIGNIVVLMARRRMPSASQDCIETTPGAQEGKKQYKMICHVFESEDAQLIAQSIGQAFSVAYQE
FLRANGINPEDLSQKEYSDIINTQEMYNDLIHFSNSENCKELQLEKHKGEILGVVVVESGWGSILPTVILANMM
MCPAARSGKLSIGDQIMSINGTSLVGLPLATCQGIKGLKNQTQVKLNIVSCPPVTTVLIKRPDLKYQLGFSVQ
MLICSLMRGGIAERGGVRVGHRIEINGQSVVATAHEKIVQALSNSVGEIHMKTMPAAMFRLLTGQETPLYI

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FIGURE 2073

GAATTCATTTTAAGTTATACAAAACACTGATTACCATAAGTGCGGTCGACTGCTTTTATTTTACGTTGTGTGTGT
TGGAAAAATGCTAAAACATCAGTCTACAATTCTATATATTGTTATTAAAGATTAAATCCAACCAGCAACCCAAGGA
CATATAAGCGATTTCCACTATTGCATCAGAGCACTCGGCAGGAAAGGCCTAGCCACGGGGAACATTAGAAGCTAC
AGAAGCATTGCAGAGAAGAGAAGATCCCCCGCGCGTCCGCCGCTGTTCTAAGGAGAGAAGTGGGGGCCCCCAGG
CTCGCGCGTGGAGCGAAGCAGCATGGGCAGTCGGTGCGCGCTGGCCCTGGCGGTGCTCTCGGCCTTGCTGTGTCA
GGTCTGGAGCTCTGGGGTGTTCGAACTGAAGCTGCAGGAGTTTCGTCAACAAGAAGGGGCTGCTGGGGAACCGCAA
CTGCTGCCGCGGGGGCGCGGGGCCACCGCCGTGCGCCTGCCGGACCTTCTTCCGCGTGTGCCTCAAGCACTACCA
GGCCAGCGTGTCCCCGAGCCGCCCTGCACCTACGGCAGCGCCGTCACCCCGTGCTGGGCGTCGACTCCTTCAG
TCTGCCCGACGGCGGGGGCGCCGACTCCGCGTTTCAGCAACCCCATCCGCTTCCCCTTCGGCTTACCTGGCCGGG
CACCTTCTCTCTGATTATTGAAGCTCTCCACACAGATTCTCCTGATGACCTCGCAACAGAAAACCCAGAAAGACT
CATCAGCCGCTGGCCACCCAGAGGCACCTGACGGTGGGCGAGGAGTGGTCCCAGGACCTGCACAGCAGCGGCCG
CACGGACCTCAAGTACTCCTACCGCTTCGTGTGTGACGAACACTACTACGGAGAGGGCTGCTCCGTTTTCTGCCG
TCCCCGGGACGATGCCTTCGGCCACTTCACCTGTGGGGAGCGTGGGGAGAAAGTGTGCAACCCTGGCTGGAAAGG
GCCCTACTGCACAGAGCCGATCTGCCTGCCTGGATGTGATGAGCAGCATGGATTTTGTGACAAACCAGGGGAATG
CAAGTGCAGAGTGGGCTGGCAGGGCCGGTACTGTGACGAGTGTATCCGCTATCCAGGCTGTCTCCATGGCACCTG
CCAGCAGCCCTGGCAGTGAACCTGCCAGGAAGGCTGGGGGGGCGCTTTTCTGCAACCAGGACCTGAACTACTGCAC
ACACCATAAGCCCTGCAAGAATGGAGCCACCTGCACCAACACGGGCCAGGGGAGCTACACTTGCTCTTGCCGGCC
TGGGTACACAGGTGCCACCTGCGAGCTGGGGATTGACGAGTGTGACCCAGCCCTTGTAAGAACGGAGGGAGCTG
CACGGATCTCGAGAACAGCTACTCCTGTACCTGCCACCCGGCTTCTACGGCAAAATCTGTGAATTGAGTGCCAT
GACCTGTGCGGACGGCCCTTGCTTTAACGGGGGTTCGGTGTCTCAGACAGCCCCGATGGAGGGTACAGCTGCCGCTG
CCCCGTGGGCTACTCCGGCTTCAACTGTGAGAAGAAAATTGACTACTGCAGCTCTTACCCCTGTTCTAATGGTGC
CAAGTGTGTGGACCTCGGTGATGCCTACCTGTGCCGCTGCCAGGCCGGCTTCTCGGGGAGGCACTGTGACGACAA
CGTGGACGACTGCGCCTCCTCCCCGTGCGCCAACGGGGGCACCTGCCGGGATGGCGTGAACGACTTCTCCTGCAC
CTGCCCCGCTGGCTACACGGGCAGGAACCTGCAGTCCCCCGTCAGCAGGTGCGAGCACGCACCCCTGCCACAATGG
GGCCACCTGCCACGAGAGGGGCCACGGCTATGTGTGCGAGTGTGCCGAGGCTACGGGGGTCCCAACTGCCAGTT
CCTGCTCCCCGAGCTGCCCCCGGGCCAGCGGTGGTGGACCTCACTGAGAAGCTAGAGGGCCAGGGCGGGCCATT
CCCCTGGGTGGCCGTGTGCGCCGGGGTTCATCCTTGTCCTCATGCTGCTGCTGGGCTGTGCCGCTGTGGTGGTCTG
CGTCCGGCTGAGGCTGCAGAAGCACCGGCCCCCAGCCGACCCCTGCCGGGGGAGACGGAGACCATGAACAACCT
GGCCAACCTGCCAGCGTGAGAAGGACATCTCAGTCAGCATCATCGGGGCCACGCAGATCAAGAACACCAACAAGAA
GGCGGACTTCCACGGGGACCACAGCGCCGACAAGAATGGCTTCAAGGCCCGCTACCCAGCGGTGGACTATAACCT
CGTGCAGGACCTCAAGGGTGACGACACCGCCGTGAGGGACGCGCACAGCAAGCGTGACACCAAGTGCCAGCCCCA
GGGCTCCTCAGGGGAGGAGAAGGGGACCCCGACCACACTCAGGGGTGGAGAAGCATCTGAAAGAAAAAGGCCGGA
CTCGGGCTGTTCAACTTCAAAAGACACCAAGTACCAGTCGGTGTACGTCATATCCGAGGAGAAGGATGAGTGCCT
CATAGCAACTGAGGTGTAAAATGGAAGTGAGATGGCAAGACTCCCGTTTCTCTTAAATAAGTAAATTCCAAGG
ATATATGCCCCAACGAATGCTGCTGAAGAGGAGGGAGGCCTCGTGGACTGCTGCTGAGAAACCGAGTTCAGACCG
AGCAGGTTCTCCTCCTGAGGTCTCGACGCCTGCCGACAGCCTGTGCGGGCCCGGCCGCTGCGGCCTGCCTTC
CGTGACGTCGCCGTTGCACTATGGACAGTTGCTCTTAAGAGAATATATATTTAAATGGGTGAAGTGAATTACGCA
TAAGAAGCATGCACTGCCTGAGTGTATATTTTGGATTCTTATGAGCCAGTCTTTTCTTGAATTAGAAACACAAAC
ACTGCCTTTATTGTCTTTTTTGATACGAAGATGTGCTTTTTCTAGATGGAAAAGATGTGTGTTATTTTTTGATT
TGTAATAATATTTTTCATGATATCTGTAAAGCTTGAGTATTTTGTGATGTTTCGTTTTTTATAATTTAAATTTTG
TAAATATGTACAAAGGCACTTCGGGTCTATGTGACTATATTTTTTGTATATAAATGTATTTATGGAATATTGTG
CAAATGTTATTTGAGTTTTTTACTGTTTTGTGAATGAAGAAATTCCTTTTTTAAATATTTTTTCCAAAATAAATTT
TATGAGGAATTC

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FIGURE 2074

MGSRCALALAVLSALLCQVWSSGVFELKLQEFVNKKGLLGNRNCCRGGAGPPPCACRTFFRVCLKHYQASVSPEP
PCTYGS AVTPVLGVDSFSLPDGGGADSAFSNP IRFPFGFTWPGTFSLI IEALHTDSPDDLATENPERLISRLATQ
RHLTVGEEWSQDLHSSGRTDLKYSYRFVCD EHY YGEGCSVFCRPRDDAFGHFTCGERGEKVCNPGWKGPYCTEPI
CLPGCDEQHGFCDKPGECKCRVGWQGRYCD ECI RYPGCLHGTCQQPWQCNCQEGWGGLFCNQDLNYCTHHKPCKN
GATCTNTGQGSYTCSCRPGYT GATCELGID ECDPSPCKNGGSCDLENSYSCTCPPGFYKICELSAMTCADGPC
FNGGRCSDSPDGGYSCRCPVGYSGFNCEKKIDYCSSSPCSNGAKCVDLGDAYLCRCQAGFSGRHCDNVDDCASS
PCANGGT CRDGVNDF SCTCPPGYTGRNCSAPVSRCEHAPCHNGATCHERGHGYVCECARGYGGPNCQFLLPELPP
GPAVVDLTEKLEGQGGPFPWVAVCAGVILVLM LLLGCAAVVVCVRLRLQKHRPPADPCRGETETMNNLANCQREK
DISVSIIGATQIKNTNKKADFHGDHSADKNGFKARYPAVDYNLVQDLKGDDTAVRDAHSKRDTKCQPQSSGEEK
GTP TTLRGGEASERKRPD SG CSTSKDTKYQSVYVISEEKDECVIATEV

[illegible]

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FIGURE 2076

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGLGVSGA
GGALALGPERLSAFVFPGELLRLRLRMIIILPLVVC SLIGGAASLDPGALGRLGAWALLFFLVTTLLASALGVGLA
LALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVGQE
VEGMNIGLVVFAIVFGVALRKLGP EGELLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA
RLGKYILCCLLGHAIHGLLVPLIYFLFTRKNPYRFLWGIVTPLATAFGTSSSSATLPLMMKCVEENNGVAKHIS
RFILPIGATVNMDGAALFQCVAAVFIAQLSQQLDFVKIITILVTATASSVGAAGIPAGGVLT LAIILEAVNLPV
DHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRTESRSTEP ELIQVKSELPDPLPVPTEEGNPLLKH YR
GPAGDATVASEKESVM

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FIGURE 2077

CAGGCCAGGACTCCACAAGGCTGGTCCCCTGCCCTGGAGCAACTTAAACAGGCCCTCTGGCCAGCCTGGAACCTT
GAGATGGCCTCCAGCTCAGGCAGCAGTCTCGCCCGGCCCTGATGAGAATGAGTTTCCCTTTGGGTGCCCTCCC
ACCGTCTGCCAGGACCCAAAGGAGCCCAGGGCTCTCTGCTGTGCAGGCTGTCTCTCTGAGAACCCGAGGAATGGC
GAGGATCAGATCTGCCCCAAATGCAGAGGGGAAGACCTCCAGTCTATAAGCCCAGGAAGCCGTCTTCGAACTCAG
GAGAAGGCTCACCCCGAGGTGGCTGAGGCTGGAATTGGGTGCCCTTTGCAGGTGTGCGCTGCTCCTTCAAGGGA
AGCCACAGTCTGTGCAAGAGCATGAGGTCACCTCCCAGACCTCCACCTAAACCTGCTGTTGGGGTTCATGAAA
CAGTGGAAGGCCCGGCTGGGCTGTGGCCTGGAGTCTGGGCCCATGGCCCTGGAGCAGAACCTGTGACACCTGCAG
CTGCAGGCAGCCGTGGAAGTGGCGGGGGACCTGGAGGTTCGATTGCTACCGGGCACCTGCTCCGAGAGCCAGGAG
GAGCTGGCCCTGCAGCACTTCATGAAGGAGAAGCTTCTGGCTGAGCTGGAGGGGAAGCTGCGTGTGTTTGAGAAC
ATTGTTGCTGTCTCAACAAGGAGGTGGAGGCCCTCCACCTGGCCCTGGCCACCTCTATCCACCAGAGCCAGCTG
GACCGTGAGCGCATCCTGAGCTTGGAGCAGAGGGTGGTGGAGCTTCAGCAGACCTGGCCCAGAAAGACCAGGCC
CTGGGCAAGCTGGAGCAGAGCTTGGCCTCATGGAGGAGGCCCTCCTTCGATGGCACTTTCTGTGGAAGATCACC
AATGTCACCAGGCGGTGCCATGAGTCGGCCTGTGGCAGGACCGTCAGCCTCTTCTCCCCAGCCTTCTACACTGCC
AAGTATGGCTACAAGTTGTGCCTGCGGCTGTACCTGAATGGAGATGGCACTGGAAAGAGAACCCATCTGTCGCTC
TTCATCGTGATCATGAGAGGGGAGTATGATGCGCTGCTGCCGTGGCCTTTCCGGAACAAGGTACCTTCATGCTG
CTGGACCAGAACAACCGTGAGCACGCCATTGACGCCTTCGGCCTGACCTAAGCTCAGCGTCCTTCCAGAGGCC
CAGAGTGAAACCAACGTGGCCAGTGGAATGCCACTCTTCTCCCCCTCAGCAAACCTGCAGTCACCCAAGCACGCC
TACGTGAAGGACGACACAATGTTCCCTCAAGTGCATTGTGGAGACCAGCACTTAGGGTGGGCGGGGCTCCTGAGGG
AGCTCCAACCTCAGAAGGGAGCTAGCCAGAGGACTGTGATGCCCTGCCCTTGGCACCCAAGACCTCAGGGCACAAA
GATGGGTGAAGGCTGGCATGATCCAAGCAAGACTGAGGGGTGCACTTCGGGCTGGCCATCTGGTTAGGATGGCAG
GACGTGGGCTGGGCCCCACAAAGGCAAAGGTCCAGAAGGAGACAGGCAGAGCTGCTCCCCCTCTGCACGGACCATG
CGACACTGGGAGGCCAGTGAGCCACTCCGGCCCCGAATGTTGAGGTGGACTCTCACCAAATGAGAAGAAAATGGA
ACCAGGCTTGGAACCGTAGGACCCAAGCAGAGAAGCTCTCGGGCTAGGAAGATCTCTGCAGGGCCGCCAGGGAGA
CCTGGACACAGGCCTGCTCTCTTTTTCTCCAGGGTCAGAAACAGGACCGGGTGGAAAGGGATGGGGTGCCAGTTTG
AATGCAGTCTGTCCAGGCTCGTCATTGGAGGTGAACAAGCAAACCCAGAGGGCTCCACTAGGACTTCAAATTGGG
GGTTGGATTTGAAGACTTTTAAGTTTCTTCCAGCCAGAAAGTCTCTCATTCTAGGCCTCCTGGCCAGGTGAG
TCCTAGAGCTACAGGGGTCTTGAAACATTGAGGAGCTTCTGTCTCCAGCTCCTCACTCACCTTCAGTAACC
CCCACTGGACTGACCTGGTCCACAGGGCACCTGCCACCCTGGGCCTGGCAGCTCAGCTTCCCCAACACGCAGGAG
CACACCCAGCCCCACATCCTGTGCCTCCATCAGCTAAACACCACGTCACCTTCATGCAGGTGAAACCCAGTCACT
GTGAGCTCCAGGTGCAGCCAGAGGCACCTCAAGAAGAAGAGGGGCATAAACTTTCTCTTCTGCTAGAGGCC
CCACCTTTGGTGCTTTCCAGAATCCCGTAACACCTGATTAAGTGAAGGCATCCACTTCTTTCAGCAGACTGATCAG
GACCTCCAAGCCACTGAGCAATGTATAACCCCAAAGAAATAATTTTGAATCTCTTTCGAAGTTTCTTAAAAA
AAAAAAAAAAAA

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FIGURE 2078

MASSSGSSPRPAPDENEFFFGCPPTVCQDPKEPRALCCAGCLSENPRNGEDQICPKCRGEDLQSI SPGSRLRTQE
KAHPEVAEAGIGCPFAGVGCSFKGSPQSVQEHEVTSQTSHLNLLLGFMKQWKARLGCGLESGPMALEQNLSDLQL
QAAVEVAGDLEVDCYRAPCSESQEELALQHFMKEKLLAELEGKLRVFENIVAVLNKEVEASHLALATSIHQSQLD
RERILSLEQRVVELQQTLAQKDQALGKLEQSLRLMEEASFDTFLWKITNVTRRCHESACGRTVSLFSPAFYTAK
CYKLCLRLYLNGDGTGKRTHLSLFIIVIMRGEYDALLPWPFRNKVTFMLLDQNNREHAIDAFRDLSSASFQRPQ
TNVASGCPLFFPLSKLQSPKHAYVKDDTMFLKCIVETST

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FIGURE 2079

CCTGGCCCGGTCGCGGTCGCGGCTCTTTCCAGCTCCTGGCAGCCGGGCACCCGAAGGAACGGGTCGTGCAACGAC
GCAGCTGGACCTGGCCCAGCCATGGACCGAAAAGTGGCCCCGAGAATTCCGGCATAAGGTGGATTTTCTGATTGAA
AATGATGCAGAGAAGGACTATCTCTATGATGTGCTGCGAATGTACCACCAGACCATGGACGTGGCCGTGCTCGTG
GGAGACCTGAAGCTGGTCATCAATGAACCCAGCCGTCTGCCTCTGTTTGATGCCATTTCGGCCGCTGATCCCACTG
AAGCACCAGGTGGAATATGATCAGCTGACCCCCCGGCGCTCCAGGAAGCTGAAGGAGGTGCGTCTGGACCGTCTG
CACCCCGAAGGCCTCGGCCTGAGTGTGCGTGGTGGCCTGGAGTTTGGCTGTGGGCTCTTCATCTCCACCTCATC
AAAGGCGGTCAAGCAGACAGCGTCGGGCTCCAGGTAGGGGACGAGATCGTCCGGATCAATGGATATTCCATCTCC
TCCTGTACCCATGAGGAGGTCAACCTCATTGCAACCAAGAAAAGTGTGTCCATCAAAGTGAGACACATCGGC
CTGATCCCCGTGAAAAGCTCTCCTGATGAGCCCCCTACTTGGCAGTATGTGGATCAGTTTGTGTGCGGAATCTGGG
GGCGTGCGAGGCAGCCTGGGCTCCCCCTGGAAATCGGGAAAACAAGGAGAAGAAGGTCTTCATCAGCCTGGTAGGC
TCCCGAGGCCTTGGCTGCAGCATTTCCAGCGGCCCATCCAGAAGCCTGGCATCTTTATCAGCCATGTGAAACCT
GGCTCCCTGTCTGCTGAGGTGGGATTGGAGATAGGGGACCAGATTGTGCAAGTCAATGGCGTCGACTTCTCTAAC
CTGGATCACAAAGGAGGCTGTAAATGTGCTGAAAAATAGCCGCAGCCTGACCATCTCCATTGTAGCTGCAGCTGGC
CGGGAGCTGTTTATGACAGACCGGGAGCGGCTGGCAGAGGCGCGGCAGCGTGAGCTGCAGCGGCAGGAGCTTCTC
ATGCAGAAGCGGCTGGCGATGGAGTCCAACAAGATCCTCCAGGAGCAGCAGGAGATGGAGCGGCAAAGGAGAAAA
GAAATTGCCGAGAAGGCAGCAGAGGAAAATGAGAGATACCGGAAGGAGATGGAACAGATTGTAGAGGAGGAAGAG
AAGTTTAAGAAGCAATGGGAAGAAGACTGGGGCTCAAAGGAACAGCTACTCTTGCCATAAACCATCACTGCTGAG
GTACACCCAGTACCCCTTCGCAAGCCAAAGTATGATCAGGGAGTGGAACTGAGCTCGAGCCCGCAGATGACCTG
GATGGAGGCACGGAGGAGCAGGGAGAGCAGGATTTCCGGAAAATATGAGGAAGGCTTTGACCCCTACTCTATGTTT
ACCCAGAGCAGATCATGGGGAAGGATGTCCGGCTCCTACGCATCAAGAAGGAGGGATCCTTAGACCTGGCCCTG
GAAGGCGGTGTGGACTCCCCCATTTGGGAAGGTGGTCTGTTTCTGCTGTGTATGAGCGGGGAGCTGCTGAGCGGCAT
GGTGGCATTGTGAAAGGGGACGAGATCATGGCAATCAACGGCAAGATTGTGACAGACTACACCCTGGCTGAGGCT
GACGCTGCCCTGCAGAAGGCCTGGAATCAGGGCGGGGACTGGATCGACCTTGTGGTTGCCGTCTGCCCCCAAAG
GAGTATGACGATGAGCTGACCTTCTTGCTGAAGTCCAAAAGGGGAAACCAAATTCACGCGTTAGGAAACAGTGAG
CTCCGGCCCCACCTCGTGAACACAAAGCCTCGGACCAGCCTTGAGAGAGGCCACATGACACACACCAGATGGCAT
CCTTGGGACCTGAATCTATCACCCAGGAATCTCAAACCTCCCTTTGGCCCTGAACCAGGGCCAGATAAGGAACAGC
TCGGGCCACTTTTTTGAAGGCCAATGTGGAGGAAAGGGAGCAGCCAGCCGTTTGGGAGAAGATCTCAAGGATCCA
GACTCTCATTCCTTTCTCTGGCCAGTGAATTTGGTCTCTCCAGCTTTGGGGGACTCCTTCCTTGAACCTTAA
TAAGACCCCACTGGAGTCTCTCTCTCCATCCCTCTCCTCTGCCCTCTGCTCTAATTGCTGCCAGGATTGTCAC
TCCAAACCTTACTCTGAGCTCATTAAATAAAATAAACAGATTATTTTCCAGCTTAAAAAA

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FIGURE 2080

MDRKVAREFRHKVDFLIENDA EKDYLDVLRMYHQTMDVAVLVGDLKLVINEPSRLPLFDAIRPLIPLKHQVEYD
QLTPRRSRKLKEVRLDRLHPEGLGLSVRGGLEFGCGLFISHLIKGGQADSVGLQVGDEIVRINGYSISSCTHEEV
INLIRTKKTVSIKVRHIGLIPVKSSPDEPLTWQYVDQFVSESGGVRGSLGSPGNRENKEKKVFISLVGSRGLGCS
ISSGPIQKPGIFISHVKPGSLSAEVGLEIGDQIVEVNGVDFSNLDHKEAVNVLKNSRSLTISIVAAAGRELFMTD
RERLAEARQRELQRQELLMQKRLAMESNKILQEQQEMERQRRKEIAQKAAEENERYRKEME QIVEEEEEKFKKQWE
EDWGSKEQLLLPKTITAEVHPVPLRKP KYDQGV EPELEPADDLDGGTEEQGEQDFRKYEEGFDPYSMFTPEQIMG
KDVRLLR IKKEGSLDLALEGGVDSPIGKVVS AVYERGAAERHGGIVKGDEIMAIN GKIVTDYTLAEADAALQKA
WNQGGDWIDL VVAVCPPKEYDDELTFLLKSKRGNQIHALGNSEL RPHLVNTKPR TSLERGHMTHTRWHPWDLNLS
PRNLKLPLALNQGQIRNSSGHFFEGQCGGKGAASRLGEDLKDPD SHSFPLAQ

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FIGURE 2081

CAGAGGGCTGCTGGCTGGCTAAGTCCCTCCCGCTCCCGGCTCTCGCCTACTAGGAGCGGCTCTCGGTGCAGCGG
GACAGGGCGAAGCGGCCTGCGCCACGGAGCGCGCAGACTGCCCGGAAGGGACC GCCACCCTTGCCCCCTCAGC
TGCCCACTCGTGATTTCCAGCGGCCTCCGCGCGCGCACGATGCCCTCGGCCACCAGCCACAGCGGGAGCGGCAGC
AAGTCGTCCGGACC GCCACC CGCGCTCGGGTTCTCCGGGAGTGAGGCGGCCGCGGGAGCCGGGGCGCCGCGCCG
GCTTCTCAGCACCCCGCAACCGGCACCGGCGCTGTCCAGACCGAGGCCATGAAGCAGATTCTCGGGGTGATCGAC
AAGAACTTCCGAACCTGGAGAAGAAAAAGGGTAAGCTTGATGATTACCAGGAACGAATGAACAAAGGGGAAAGG
CTTAATCAAGATCAGCTGGATGCCGTTTCTAAGTACCAGGAAGTCACAAATAATTTGGAGTTTGCAAAGAATTA
CAGAGGAGTTTCATGGCACTAAGTCAAGATATTAGAAAACAATAAAGAAGACAGCACGTCGGGAGCAGCTTATG
AGAGAAGAAGCTGAACAGAAACGTTTAAAACTGTACTTGAGCTACAGTATGTTTTGGACAAATTGGGAGATGAT
GAAGTGGGACTGACCTGAAACAAGGTTTGAATGGAGTGCCAATATTGTCCGAAGAGGAGTTGTCTATTGTTGGAT
GAATTCTATAAGCTAGTAGACCTGAACGGGACATGAGCTTGAGGTTGAATGAACAGTATGAACATGCCCTCCATT
CACCTGTGGGACCTGCTGGAAGGGAAGGAAAAACCTGTATGTGGAACCACCTATAAAGTTCTAAAGGAAATTGTT
GAGCGTGTTTTTCAGTCAAACCTACTTTGACAGCACCCACAACCACCAGAAATGGGCTGTGTGAGGAAGAAGAGGCA
GCCTCAGCACCTGCAGTTGAAGACCAGGTACCTGAAGCTGAACCTGAGCCAGCAGAAGAGTACACTGAGCAAAGT
GAAGTTGAATCAACAGAGTATGTAATAGACAGTTTCATGGCAGAAACACAGTTCACCAGTGGTGAAAAGGAGCAG
GTAGATGAGTGGACAGTTGAAACGGTTGAGGTGGTAAATTCCTCCAGCAGCAACCTCAGGCTGCATCCCCCTTCA
GTACCAGAGCCCCACTCTTTGACTCCAGTGGCTCAGGCAGATCCCCCTGTGAGAAGACAGCGAGTACAAGACCTT
ATGGCACAAATGCAGGGTCCCTATAATTTCTATACAGGATTCAATGCTGGATTTTGAAAATCAGACACTTGATCCT
GCCATTGTATCTGCACAGCCTATGAATCCAACACAAAACATGGACATGCCCCAGCTGGTTTGCCCTCCAGTTTCAT
TCTGAATCTAGACTTGCTCAGCCTAATCAAGTTCTGTACAACCAGAAAGCGACACAGGTTCTTTGGTATCATCC
ACAAGTGAGGGGTACACAGCATCTCAACCCTTGTAACAGCCTTCTCATGCTACAGAGCAACGACCACAGAAGGAA
CCAATTGATCAGATTTCAGGCAACAATCTCTTTAAATACAGACCAGACTACAGCATCATCATCCCTTCTGCTGCG
TCTCAGCCTCAAGTATTTTCAGGCTGGGACAAGCAAACCTTTACATAGCAGTGGAATCAATGTAAATGCAGCTCCA
TTCCAATCCATGCAAACGGTGTTCAATATGAATGCCCCAGTTCCCTCCTGTTAATGAACCAGAACTTTAAACAG
CAAAATCAGTACCAGGCCAGTTATAACCAGAGCTTTTCTAGTCAGCCTCACCAGTAGAACAAACAGAGCTTCAG
CAAGAACAGCTTCAAACAGTGGTTGGCACTTACCATGGTTCCCCAGACCAGTCCCATCAAGTGACTGGTAACCAC
CAGCAGCCTCCTCAGCAGAACACTGGATTTCCACGTAGCAATCAGCCCTATTACAATAGTCGTGGTGTGTCTCGT
GGAGGCTCCCGTGTTGCTAGAGGCTTGATGAATGGATACCGGGGCCCTGCCAATGGATTGAGAGGAGGATATGAT
GGTTACCGCCCTTCATTCTCTAACACTCCAACAGTGGTTATACACAGTCTCAGTTCAGTGCTCCCGGGATTAC
TCTGGCTATCAACGGGATGGATATCAGCAGAATTTCAAGCGAGGCTCTGGGCAGAGTGGACCACGGGGAGCCCCA
CGAGGTCGTGGAGGGCCCCCAAGACCAACAGAGGGATGCCGCAAATGAACACTCAGCAAGTGAATTAATCTGAT
TCACAGGATTATGTTTAATCGCCAAAACACACTGGCCAGTGATACCATAATATGTTACCAGAAGAGTTATTATCT
ATTTGTTCTCCCTTTTCAGGAACTTATTGTAAAGGGACTGTTTTTCATCCATAAAGACAGGACTACAATTGTCAG
CTTTCTATTACCTGGATATGGAAGGAACTATTTTTACTCTGCATGTTCTGTCTTAAGCGTCATCTTGAGCCTTG
CACATGATACTCAGATTCTCACCCTTGCTTAGGAGTAAACAATATACTTTACAGGGTGATAATAATCTCCATA
GTTATTTGAAGTGGCTTGAAAAAGGCAAGATTGACTTTTATGACATTGGATAAAATCTACAAATCAGCCCTCGAG
TTATTCAATGATAACTGACAACTAAATTATTTCCCTAGAAAGGAAGATGAAAGGAGTGGAGTGTGGTTTGGCAG
AACAACTGCATTTACAGCTTTTCCAGTTAAATTGGAGCACTGAACGTTTCAGATGCATACCAAATTATGCATGGG
TCCTAATCACACATATAAGGCTGGCTACCAGCTTTGACACAGCACTGTTTCATCTGGCCAAACACTGTGGTTAAA
AACACATGTAAATGCTTTTTAACAGCTGATACTGTATAAGACAAAGCCAAGATGCAAAATTAGGCTTTGATTGG
CACTTTTTGAAAAATATGCAACAAATATGGGATGTAATCCGGATGGCCGCTTCTGTACTTAATGTGAAATATTTA
GATACCTTTTTGAACACTTAACAGTTTCTTTGAGACAATGACTTTTGTAAGGATTGGTACTATCTATCATTCTT
ATGACATGTACATTGTCTGTCTACTAATCCTTGATTGTTGCTGTATTGTACCTAAATTGGTACAGGTACTGATGA
AAATCTCTAGTGGATAATCATAACACTCTCGGTACATGTTTTTCCCTCAGCTTGAAAGCTTTTTTTTTAAAGGA
AAAGATACCAAATGCCTGCTGCTACCACCTTTTCAATTGCTATCTTTGAAAGGCACCAGTATGTGTTTTAGAT
TGATTTCCCTGTTTCAGGGAAATCACGGACAGTAGTTTCAGTTCTGATGGTATAAGCAAACAAATAAAACGTTT
ATAAAAGTTAAAAA

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FIGURE 2082

MKQILGVIDKKLRNLEKKKGKLLDDYQERMNKGERLNQDQLDAVSKYQEVNTNNLEFAKELQRSFMALSQDIQKTIK
KTARREQLMREEAEQKRLKTVLELQYVLDKLGDDDEVRTDLKQGLNGVPILSEEELSLLEDEFYKLVDPERDMSLRL
NEQYEHASIHLDLLEGKEKPVCGTTYKVLKEIVERVFQSNYFDSTHNNHQNGLCEEEEAASAPAVEDQVPEAEPE
PAEYTEQSEVEST EYVNRQFMAETQFTSGEKEQVDEWTVETVEVVNSLQQQPQAASPSVPEPHSLTPVAQADPL
VRRQRVQDLMAQMGPYNFIQDSMLDFENQTLDP AIVSAQPMNPTQNMDMPQLVCPFVHSESRLAQP NQVPVQPE
ATQVPLVSSTSEGYTASQPLYQPSHATEQRPQKEPIDQIQATISLNTDQTTASSSLPAASQPQVFQAGTSKPLHS
SGINVNAAPFQSMQTVFNMNAPVPPVNEPETLKQONQYQASYNQSFSSQPHQVEQTELQQEQLQTVVGTYHGSPD
QSHQVTGNHQPPQQNTGFPRSNQPYNSRGVSRGSGRGARGLMNGYRGFPANGFRGGYDGYRPSFSNTPNSGYTO
SQFSAPRDYSGYQRDGYQQNFKRGSQSGPRGAPRGRGGPPRPNRGMFQMNTQQVN

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FIGURE 2083

CAGCGGCGGCCCAGGAGGCAGCCGGTGAGCGCCTGCGAGCAGAGTGGCGGGGGCCGCTGACAGGTCCCGCGCAGC
CCAGCCCAGCCCAGCCACGCGGCTCACAGGTGGGGTCCAAGAGCAGTTTGGAGCAACCCGGCGCTACGGAGAGGG
GTGGACGGCTCTGCACGGGCTCCTGTCTCCCGCTCGGGCAGAGGGACTCGGGGGGACCTCGCTCCTTGGCCGAG
AGAACCTGAACTCGGGCGGAGAGAACGCGCCAGGCGGGCAAGGGGACCAGAGAAAGCCGGGGCTGGAAGTCACT
GTCGCTCGCCACTGTCTGGAGCGCACGGAGCGCAGAGGCCCGGCAGCCGCGCGTGCCCTCCCGGGGACCGAGCCA
GTGATGCAGGATCGCTGAGCGGAGATCCGCGCCGAGAAGTCTCTCGGGGCCGGGGCTGAGACGCACGCCTTCGAC
ACCGCTGCCAAGACCCCGATTCCGGCGACTCTTGCGGGGAACCGAGGGGCCAAGGCTGCCCAAGCTCAGGACTT
GGGCGAGTCTAAGACGATGGTTTCTTAAGCACGGACCCGCGTTCCCTTCCCGCCCCCTCGACTGGAGGCAGGGA
TCCTGCGCGGGGGCCCCGGGATTCCGTTTCCCGCGGAGCCCCGGCCGCTGCTCCCGGGACAGTTCGCACGGCC
ACAGGGGCGCACGGCGATGTGGCCTCCGTCCAGCGCGCTGGCCCCGCGGGGGGATGCTCTGGCACCTGTGGGGT
CCAGGCCTAGCATGGCCGGCGCGTTGCCCGACGTGCGCTCCGGCTAGGATGCCCCCTCCGGGCCCCGGCCAGTGCC
CTCTCCACCTCGGCCGAGCCGCTGTCCCGCAGCATCTTCCGGAAGTTCTTGCTGATGCTCTGCTCCCTGCTCACG
TCCCTTTACGTCTTCTACTGCTGGCCGAGCGCTGCCAGACCCTGTCCGGCCCCGTCGTGGGGCTGTCCGGCGGC
GGCGAGGAGGCGGGGGCCCCCTGGTGGCGGCGTCTGGCCGGAGGCCCGAGGGAGCTGGCGGTGTGGCCGGCGGCG
GCACAGAGAAAGCGCCTCCTGCAACTGCCGCACTGGCGGAGGCGCCGGCCGCCCGCGCCCCGCGACGACGGCGAG
GAGGCGGCCTGGGAAGAAGAGTCCCCTGGCCTGTGAGGGGGTCCGGGCGGCTCCGGGGCCGGAAGCACCGTGGCC
GAGGCCCCCGCGGGGACCCTGGCGCTGCTCCTGGACGAAGGCAGCAAGCAGCTGCCGCAGGCCATCATCATCGGA
GTGAAGAAGGGCGGCACGCGGGCGCTGCTGGAGTTCTGCGCGTGCACCCGACGTGCGCGCCGTGGGCGCCGAG
CCCCACTTCTTCGACCGCAGCTACGACAAGGGCCTCGCCTGGTACCGGGACCTGATGCCCAGAACCCTGGACGGG
CAGATCACCATGGAGAAGACGCCCAGTTACTTTCGTACGCGGGAGGCCCCCGCGCGCATCTCGGCCATGTCCAAG
GACACCAAGCTCATCGTGGTGGTGGCGGGACCCGGTGACCAGGGCCATCTCGGACTACACGCAGACGCTGTCCAAG
CGGCCCCGACATCCCCACCTTCGAGAGCTTGACGTTCAAAAACAGGACAGCGGGCCTCATCGACACGTCGTGGAGC
GCCATCCAGATCGGCATCTACGCCAAGCACCTGGAGCACTGGCTGCGCCACTTCCCCATCCGCCAGATGCTCTTC
GTGAGCGGCGAGCGGCTCATCAGCGACCCGGCCGGGAGCTGGGCGCGCTGCAAGACTTCCTGGGCCTCAAGAGG
ATCATCACGGACAAGCACTTCTACTTCAACAAGACCAAGGGCTTCCCTGCCTGAAGAAGGCGGAGGGCAGCAGC
CGGCCCCATTGCTGGGCAAGACCAAGGGCAGGACCCATCCTGAGATCGACCGCGAGGTGGTGGCGAGGCTGCGC
GAGTTCTACCGGCCTTTCAACCTCAAGTTCTACCAGATGACCGGGCACGACTTTGGCTGGGATGGATTAACCATAT
AATTTAAAAAGAAAAAAATCAAAATATAATATATTTTTTTTACCAATCGGTAGAGAAGAGACAGTTTAATATT
TGTGCTGAAAATATGTTTCAGTATTTTTTTCAATGAATGTTAAGAGATTGTTCTCACTCCCGCCCCATCTTAATG
TATAACCAACACCAAACACGTGGATCAACAGAAAAGGAAAATTTCACTCGTCTAAACACTTTCAATTTTCAGTTT
TTATTTTATGTTCTATATACCCAGTCATAAAGTATAAGCATCAGTTGTCAATTAAGTTTTTCAGAAAATCTTGAG
GTTAAACATCTCTCTCTCTTTTTTTTAAAATACAAGGCCCTGATAAAATTGATATCTATCCTTATATTTTTCTCCC
TTTTTCCCGTGCCACTTTTTCTTAAATTATTTCCAGTTAGTATTATCATATGTTTGTACCCGTCACAGTTTTCA
TAGTGCTTTCAAATACACCTTTTTTGATCATTAATAAAAAATAAATCTTGAAAAA

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FIGURE 2084

MAPPGPASALSTSAEPLSRIFRKFLMLCSLLTSLYVFYCLAERCQTLSGPVVGLSGGGEEAGAPGGGVLAGGP
RELAVWPAAAQRKRLQLPQWRRRRPPAPRDDGEEAAWEEESPGLSGGPGGSGAGSTVAEAPPGTLALLLDEGSK
QLPQAIIGVKKGGRALLEFLRVHPDVRAVGAEPHFFDRSYDKGLAWYRDLMPTLDGQITMEKTPSYFVTREA
PARISAMSKDTKLIVVVRDPVTRAISDYTQTLKRDPDIPTFESLTFKNRTAGLIDTSWSAIQIGIYAKHLEHWLR
"FFIRQMLFVSGERLISDPAGELGRVQDFLGLKRIITDKHFYFNKTKGFPCLKKAEGSSRPHCLGKTKGRTHPEI
*E'VVRRLREFYRPFNLKFYQMTGHDFGWDG

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FIGURE 2085

CTAAAGCTGGGTTGGTAGCTCCTACCTACTGTGTGGCAAGAAGGTATGGGTCATGAACAGAACCAAGGAGCTGCG
CTGCTACAGATGTTACCACTTCTGTGGCTGCTACCCCACTCCTGGGCCGTCCCTGAAGCTCCTACTCCAATGTGG
CCAGATGACCTGCAAAACCACACATTCTGCACACAGTGTACTGCCAGGATGGGAGTCCCAGTGTGGGACTCTCT
GAGGCCTACGACGAGGACCAGCTTTTCTTCTTCGACTTTTCCCAGAACACTCGGGTGCCTCGCCTGCCGAATTT
GCTGACTGGGCTCAGGAACAGGGAGATGCTCCTGCCATTTTATTTGACAAAGAGTTCTGCGAGTGGATGATCCAG
CAAATAGGGCCAAAACCTTGATGGGAAAATCCCGGTGTCCAGAGGGTTTCCTATCGCTGAAGTGTTACGCTGAAG
CCCCCTGGAGTTTGGCAAGCCCAACACTTTGGTCTGTTTTGTGAGTAATCTCTTCCCACCCATGCTGACAGTGAAC
TGGCAGCATCATTCCGTCCCTGTGGAAGGATTTGGGCCTACTTTTGTCTCAGCTGTGATGGACTCAGCTTCCAG
GCCTTTTCTTACTTAACTTCACACCAGAACCTTCTGACATTTTCTCCTGCATTGTGACTCACGAAATTGACCGC
TACACAGCAATTGCCTATTGGGTACCCCGGAACGCACTGCCCTCAGATCTGCTGGAGAATGTGCTGTGTGGCGTG
GCCTTTGGCCTGGGTGTGCTGGGCATCATCGTGGGCATTGTTCTCATCATCTACTTCCGGAAGCCTTGCTCAGGT
GACTGAATTCTTCCAGACCAGAGTTTGATGCCAGCAGCTTCGGCCATCCAAACAGAGGATGCTCAGATTTCTCACA
TCCTGCCCAGGATCTCCTCTTAGGGTAGAAGAAGTCTCTGGGACATCCCTGGGGTGTGTGTGTAGATTTCCCACC
TGGGGACTCTGCTGTCCCTGGGCTTGCATCCCAGGGATCCCAGAGTGGCCTGCCTATCACAACCACATCCCTTCC
CCCCACAAGGCAATAAATCTCATTTCCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2086

MGHEQNQGAALLQMLPLLWLLPHSWAVPEAPTPMWPDDLQNHTFLHTVYCQDGSPSVGLSEAYDEDQLFFFDfsQ
NTRVPRLPEFADWAQEQGDAPAILFDKEFCEWMIQQIGPKLDGKIPVSRGFP IAEVFTLKPLEFGKPNTLVCFVS
NLFPPMLTVNWQHHSVPVEGFGPTFVSAVDGLSFQAFSYLNFTPEPSDIFSCIVTHEIDRYTAIAYWVPRNALPS
DLLENVLCGVAFGLGVLGIIVGIVLIIYFRKPCSGD

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FIGURE 2087

TTGGGAGGAGCAGTCTCTCCGCTCGTCTCCCGAGCTTTCTCCATTGTCTCTGCCTTTACAACAGAGGGAGACGA
TGGACTGAGCTGATCCGCACCAATGGAGTCTCGGGTCTTACTGAGAACATTCTGTTTGATCTTCGGTCTCGGAGCA
GTTTGGGGGCTTGGTGTGGACCCCTCCCTACAGATTGACGTCTTAACAGAGTTAGAAGTTGGGGAGTCCACGACC
GGAGTGCCTCAGGTCCCGGGGCTGCATAATGGGACGAAAGCCTTTCTCTTTCAAGATACTCCAGAAGCATAAAA
GCATCCACTGCTACAGCTGAACAGTTTTTTTTCAGAAGCTGAGAAATAAACATGAATTTACTATTTTGGTGACCCTA
AAACAGACCCACTTAAATTCAGGAGTTATTCTCTCAATTCACCACTTGGATCACAGGTACCTGGAAGTGGAAAGT
AGTGGCCATCGGAATGAAGTCAGACTGCATTACCGCTCAGGCAGTCACCGCCCTCACACAGAAGTGTTCCTTAC
ATTTTGGCTGATGACAAGTGGCACAAGCTCTCCTTAGCCATCAGTGCTTCCCATTTGATTTTACACATTGACTGC
AATAAAATTTATGAAAGGGTAGTAGAAAAGCCCTCCACAGACTTGCTCTAGGCACAACATTTTGGCTAGGACAG
AGAAATAATGCGCATGGATATTTTAAGGGTATAATGCAAGATGTCCAATTACTTGTCTATGCCCCAGGGATTATT
GCTCAGTGCCCAGATCTTAATCGCACCTGTCCAATTGCAATGACTTCCATGGACTTGTGCAGAAAATCATGGAG
CTACAGGATATTTTAGCCAAAACATCAGCCAAGCTGTCTCGAGCTGAACAGCGAATGAATAGATTGGATCAGTGC
TATTGTGAAAGGACTTGACCATGAAGGGAACCACTACCGAGAATTTGAGTCTGGATAGACGGCTGTAAGAAC
TGCACATGCCTGAATGGAACCATCCAGTGTGAAACTCTAATCTGCCCAAATCCTGACTGCCCACTTAAGTCGGCT
CTTGCGTATGTGGATGGCAAATGCTGTAAGGAATGCAAAATCGATATGCCAATTTCAAGGACGAACCTACTTTGAA
GGAGAAAGAAATACAGTCTATTCTCTTCTGGAGTATGTGTTCTCTATGAGTGCAAGGACCAGACCATGAAACTT
GTTGAGAGTTTCAAGCTGTCCAGCTTTGGATTGTCCAGAGTCTCATCAGATAACCTTGTCTCACAGCTGTTGCAAA
GTTTGTAAAGGTTATGACTTTTGTCTGAAAGGCATAACTGCATGGAGAATTCATCTGCAGAAATCTGAATGAC
AGGGCTGTTTGTAGCTGTGAGATGGTTTTAGGGCTCTTCGAGAGGATAATGCCTACTGTGAAGACATCGATGAG
TGTGCTGAAGGGCGCCATTACTGTCTGAAAATACAATGTGTGTCAACACCCCGGGTTCTTTTATGTGCATCTGC
AAACTGGATACATCAGAATTGATGATTATTCATGTACAGAACATGATGAGTGTATCACAAATCAGCACAACTGT
GATGAAAATGCTTTATGCTTCAACACTGTTGGAGGACACAACCTGTGTTTGCAAGCCGGGCTATACAGGGGAATGGA
ACGACATGCAAAGCATTTTTCAGAAAGATGGCTGTAGGAATGGAGGAGCCTGTATTGCCGCTAATGTGTGTGCCCTGC
CCACAAGGCTTCACTGGACCCAGCTGTGAAACGGACATTGATGAATGCTCTGATGGTTTTGTTCAATGTGACAGT
CGTGCTAATTGCATTAACCTGCCTGGATGGTACCCTGTGAGTGCAGAGATGGCTACCATGACAATGGGATGTTT
TCACCAAGTGGAGAATCGTGTGAAGATATTGATGAGTGTGGGACCGGGAGGCACAGCTGTGCCAATGATACCATT
TGCTTCAATTTGGATGGCGGATATGATTGTCTGATGTCTCATGGAAGAATTGCACAGGGGACTGCATCCATGAT
GGAAAAGTTAAGCACAAATGGTCAGATTTGGGTGTTGGAAAATGACAGGTGCTCTGTGTGCTCATGTGAGAATGGA
TTGTTATGTGTGACGGATGGTCTGTGACTGTGAGAATCCACAGTTGATCTTTTTTGTCTGCCCTGAATGTGAC
CCAAGGCTTAGTAGTCAGTGCCCTCCATCAAAATGGGGAACTTTGTATAACAGTGGTGACACCTGGGTCCAGAAT
TGTCAACAGTGCCGCTGCTTGCAAGGGGAAGTTGATTGTTGGCCCTGCCTTGCCAGATGTGGAGTGTGAATTC
AGCATTCTCCAGAGAATGAGTGTGCCCCGCTGTGTACAGACCCTTGCCAGGCTGACACCATCCGCAATGAC
ATCACCAAGACTTGCTTGACGAAATGAATGTGGTTCGCTTACCGGGTCTCTTGATCAAAATGACACTGAG
TGTACTCTCTGCCAGTGCAAGAATGGCCACATCTGTTGCTCAGTGGATCCACAGTGCCTTCAGGAAGTTGAAGT
TAACTGTCTCATGGGAGATTTCTGTAAAAGAATGTTCTTTTCAATAAAAGACCAAAAAGAAGTTAAACTTAAAT
TGGGTGATTTGTGGGCAGCTAAATGCAGCTTTGTTAATAGCTGAGTGAAGTTTCAATTATGAAATTTGTGGAGCT
TGACAAAATCACAAAAGGAAAATTACTGGGGCAAAATTAGACCTCAAGTCTGCCTCTACTGTGTCTCACATCACC
ATGTAGAAGAATGGGCGTACAGTATATACCGTGACATCCTGAACCTGGATAGAAAGCCTGAGCCCATGGATCT
GTGAAAGCCTCTAGCTTCACTGGTGCAGAAAATTTTCTCTAGATCAGAAATCTTCAGAATCAGTTAGGTTCTCTCA
CTGCAAGAAATAAAATGTGAGGAGTGAATGAATTATATTTTTCAGAAAGTAAAGCAAGCTATAACATGTTAT
GTACAGTACACTCTGAAAAGAAATCTGAAACAAGTTATTGTAATGATAAAAAATAATGCACAGGCATGGTTACTTA
ATATTTTCTAACAGGAAAAGTCATCCCTATTTCTTGTGTTTACTGCACTTAATATTATTTGGTTGAATTTGTTCA
GTATAAGCTCGTTCTTGTGCAAAATTAAATAAATATTTCTCTTACCTT

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FIGURE 2088

MESRVLLRTFCLIFGLGAVWGLGVDPSSLQIDVLTELELGESTTGVRQVPGLHNGTKAFLFQDTPRSIKASTATAE
QFFQKLRNKHEFTILVTLKQTHLNSGVILSIHHLDRYLELESSGHRNEVRLHYRSGSHRPHTEVFPYILADDKW
HKLSLAISASHLILHIDCNKIYERVVEKPSTDLPLGTTFWLGQRNNAHG YFKGIMQDVQLLVMPQGFIAQCPDLN
RTCPTCNDFHGLVQKIMELQDILAKTSAKLSRAEQRMNRLDQCYCERTCTMKGTTYREFESWIDGCKNCTCLNGT
IQCETLICPNPDCPLKSALAYVDGKCCKECKSICQFQGRTYFEGERN TVYSSSGVCVLYECKDQTMKLVESSGCP
ALDCPESHQITLSHSCCKVCKGYDFCSE RHNCMENSICRNLDRAVCSCRDGFALREDNAYCEDIDECAEGRHY
CRENTMCVNTPGSFMCICKTGYIRIDDYSCTEHDECITNQHNCDENALCFNTVGGHNCVCKPGYTGN GTTCKAFC
KDGCRRNGGACIAANVCACPQGF TGPSCETDIDECSDGFVQCD SRANCINLPGWYHCECRDGYHDNGMFSPSGESC
EDIDECGTGRHSCANDTICFNLDGGYDCRCPHGKNCTGDCIHDGKVKHNGQIWVLENDRC SVCSCQNGFVMCRRM
VDCENPTVDLFCCPECDPRLSSQCLHQNGETLYNSGDTWVQNCQQCRCLQGEVDCWPLPCPDVECEFSILPENE
CCPRCVTDPCQADTIRNDITKTCLDEMNVVRFTGSSWIKHGTECTLCQCKNGHICCSVDPQCLQEL

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FIGURE 2089

GTAGTGGTGCCGACTTCCTGTTGTTTGAGGCCGGGTGGGGGTGTGCGATTGTGTGGGACGGTCTGGGGCAGCCC
AGCAGCGGCTGACCCCTGCCTGCGGGGAAGGGAGTCGCCAGGCGGCCGTCATGCGGGTGTGCGAGAGCCAGCTC
AAGAAAATGGTGTCCAAGTACAAATACAGAGACCTAACTGTACGTGAAACTGTCAATGTTATTACTCTATACAAA
GATCTCAAACCTGTTTTGGATTTCATATGTTTTTAACGATGGCAGTTCCAGGGAACCTAATGAACCTCACTGGAACA
ATCCCTGTGCCTTATAGAGGTAATACATACAATATTCCAATATGCCTATGGCTACTGGACACATACCCATATAAT
CCCCCTATCTGTTTTGTTAAGCCTACTAGTTCAATGACTATTAAAAACAGGAAAGCATGTTGATGCAAATGGGAAG
ATATATCTTCCTTATCTACATGAATGGAAACACCCACAGTCAGACTTGTTGGGGCTTATTCAGGTCATGATTGTG
GTATTTGGAGATGAACCTCCAGTCTTCTCTCGTCCTATTTCCGCATCCTATCCGCCATACCAGGCAACGGGGCCA
CCAAATACTTCCTACATGCCAGGCATGCCAGGTGGAATCTCTCCATACCCATCCGGATACCCTCCCAATCCCAGT
GGTTACCCAGGCTGTCCTTACCCACCTGGTGGTCCATATCCTGCCACAACAAGTTCTCAGTACCCTTCTCAGCCT
CCTGTGACCACTGTTGGTCCCAGTAGGGATGGCACAATCAGCGAGGACACCATCCGAGCCTCTCTCATCTCTGCG
GTCAGTGACAACTGAGATGGCGGATGAAGGAGGAAATGGATCGTGCCAGGCAGAGCTCAATGCCTTGAAACGA
ACAGAAGAAGACCTGAAAAAGGGTCACCAGAACTGGAAGAGATGGTTACCCGTTTAGATCAAGAAGTAGCCGAG
GTTGATAAAAAACATAGAACTTTTGAAAAAGAAGGATGAAGAACTCAGTTCTGCTCTGGAAAAAATGGAAAAATCAG
TCTGAAAACAATGATATCGATGAAGTTATCATTCCCACAGCTCCCTTATACAAACAGATCCTGAATCTGTATGCA
GAAGAAAACGCTATTGAAGACACTATCTTTTACTTGGGAGAAGCCTTGAGAAGGGGCGTGATAGACCTGGATGTC
TTCCTGAAGCATGTACGTCTTCTGTCCCGTAAACAGTTCCAGCTGAGGGCACTAATGCAAAAAGCAAGAAAGACT
GCCGGTCTCAGTGACCTCTACTGACTTCTCTGATACCAGCTGGAGGTTGAGCTCTTCTTAAAGTATTCTTCTCTT
CCTTTTATCAGTAGGTGCCCAGAAATAAGTTATTGCAGTTTATCATTCAAGTGAAAAATATTTTGAATCAATAATA
TATTTTCTGTTTTCTTTTGGTAAAGACTGGCTTTTATTAATGCACTTTCTATCCTCTGTAACTTTTTGTGCTGA
ATGTTGGGACTGCTAAATAAAATTTGTTGCATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2090

MAVSESQLKKMVSKYKYRDLTVRETVNVITLYKDLKPVLD SYVFNDGSSRELMNLTGTIPVPYRGNTYNIPICLW
LLDTYPYNPPICFVKPTSSMTIKTGKHDANGKIYLPYLHEWKHPQSDLLGLIQVMIVVFGDEPPVFSRPISASY
PPYQATGPPNTSYMPGMPGGISPYPSGYPPNPSGYPGCPYPPGGPYPATTSSQYPSQPPVTTVGPSRDGTISED
IRASLISAVSDKLRWRMKEEMDRAQAELNALKRTEEDLKKGHQKLEEMVTRLDQEVAEVDKNIELLKKKDEELSS
EKMENQSENNDIDEVVIPTAPLYKQILNLYAEENAIEDTIFYLGEALRRGVIDLDVFLKHVRLLSRKQFQLRA
ARKTAGLSDLV

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FIGURE 2091

GGCCCCCTTGCTCTGCAGAGATGGCTCCCAATGCTTCCTGCCTCTGTGTGCATGTCCGTTCCGAGGAATGGGATTTA
ATGACCTTTGATGCCAACCCATATGACAGCGTGAAAAAATCAAAGAACATGTCCGGTCTAAGACCAAGGTCCT
GTGCAGGACCAGGTTCTTTTGCTGGGCTCCAAGATCTTAAAGCCACGGAGAAGCCTCTCATCTTATGGCATTGAC
AAAGAGAAGACCATCCACCTTACCCTGAAAGTGGTGAAGCCCAGTGATGAGGAGCTGCCCTTGTTTCTTGTGGAG
TCAGGTGATGAGGCAAAGAGGCACCTCCTCCAGGTGCGAAGGTCCAGCTCAGTGGCACAAGTGAAAGCAATGATC
GAGACTAAGACGGGTATAATCCCTGAGACCCAGATTGTGACTTGCAATGGAAAGAGACTGGAAGATGGGAAGATG
ATGGCAGATTACGGCATCAGAAAGGGCAACTTACTCTTCCCTGGCATCTTATTGTATTGGAGGGTGACCAACCTGG
GGATGGGGTGTTGGCAGGGGTCAAAAAGCTTATTTCTTTTAATCTCTTACTCAACGAACACATCTTCTGATGATT
TCCCAAATAATGAGAATGAGATGAGTAGAGTAAGATTTGGGTGGGATGGGTAGGATGAAGTATATTGCCCAAC
TCTATGTTTCTTTGATTCTAACACAATTAATTAAGTGACATGATTTTTACTAATGTATTACTGAGACTAGTAAAT
AAATTTTAAAGGCAAAATAGAGCATT

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FIGURE 2092

MAPNASCLCVHVRSEEWDLMTFDANPYDSVKKIKEHVRSTKVQVQVLLLGSKILKPRRSLSSYGIDKEKTIH
LTLKVVKPSDEELPLFLVESGDEAKRHLLQVRRSSSVAQVKAMIEKTKGIIPETQIVTCNGKRLEDGKMMADYGI
RKGNLLFLASYCIGG

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FIGURE 2093

GCAGACCTTGCTTCATGAGCAAGCTCATCTCTGGAACAACTGGCAAAGCATCTCTGCTGGTGTTTCATCAGAACAA
GACACCATGGCAGAGCATGATTACCATGAAGACTATGGGTTTCAGCAGTTTCAATGACAGCAGCCAGGAGGAGCAT
CAAGACTTCCTGCAGTTCAGCAAGGTCTTTCTGCCCTGCATGTACCTGGTGGTGTTTGTCTGTGGTCTGGTGGGG
AACTCTCTGGTGCTGGTCATATCCATCTTCTACCATAAGTTGCAGAGCCTGACGGATGTGTTTCTGGTGAACCTA
CCCCGGCTGACCTGGTGTTTGTCTGCACTCTGCCCTTCTGGGCCTATGCAGGCATCCATGAATGGGTGTTTGGC
CAGGTATGTGCAAGAGCCTACTGGGCATCTACACTATTAACCTTCTACACGTCCATGCTCATCCTCACCTGCATC
ACTGTGGATCGTTTCATTGTAGTGGTTAAGGCCACCAAGGCCTACAACCAGCAAGCCAAGAGGATGACCTGGGGC
AAGGTCACCAGCTTGCTCATCTGGGTGATATCCCTGCTGGTTTCCCTTGCCCCAAATTATCTATGGCAATGTCTTT
AATCTCGACAAGCTCATATGTGGTTACCATGACGAGGCAATTTCCACTGTGGTTCTTGCCACCCAGATGACACTG
GGGTTCTTCTTGCCACTGCTCACCATGATTGTCTGCTATTAGTCATAATCAAAACACTGCTTCATGCTGGAGGC
TTCCAGAAGCACAGATCTCTAAAGATCATCTTCCCTGGTGATGGCTGTGTTTCTGCTGACCCAGATGCCCTTCAAC
CTCATGAAGTTTCATCCGCAGCACACACTGGGAATACTATGCCATGACCAGCTTTCCTACACCATCATGGTGACA
GAGGCCATCGCATACCTGAGGGCCTGCCTTAACCCTGTGCTCTATGCCTTTGTGAGCCTGAAGTTTCGAAAGAAC
TTCTGGAACCTTGTGAAGGACATTGGTTGCCTCCCTTACCTTGGGGTCTCACATCAATGGAAATCTTCTGAGGAC
AATTCCAAGACTTTTTCTGCCTCCCACAATGTGGAGGCCACCAGCATGTTCCAGTTATTAGGCCTTGCCAGGGTTT
CGAGAAGCTGCTCTGGAATTTGCAAGTCATGGCTGTGCCCTCTTGATGTGGTGAGGCAGGCTTTGTTTATAGCTT
GCGCATTCTCATGGAGAAGTTATCAGACACTCTGGCTGGTTTGGAAATGCTTCTTCTCAGGCATGAACATGTACTG
TTCTCTTCTTGAACACTCATGCTGAAAGCCCCAAGTAGGGGGTCTAAAATTTTAAAGGACTTTCCTTCTCCATCT
CCAAGAATGCTGAAACCAAGGGGGATGACATGTGACTCCTATGATCTCAGGTTCTCCTTGATTGGGACTGGGGCT
GAAGGTTGAAGAGGTGAGCACGGCCAACAAAGCTGTTGATGGTAGGTGGCACACTGGGTGCCCAAGCTCAGAAGG
CTCTTCTGACTACTGGGCAAAGAGTGATAGATCAGAGCAGCAGTGAAAACAAGTGCTGGCACCAAGGCACCTCA
CAGAAATGAGATCAGGCTCTGCCTCACCTTGGGGCTTGACTTTTGTATAGGTAGATGTTTCAAGATTGCTTTGATTA
ATCCAGAATAACTAGCACCAAGGGACTATGAATGGGCAAACTGAATTATAAGAGGCTGATAATTCCAGTGGTCCA
TGGAATGCTTGAAAAATGTGCAAAACAGCGTTTAAAGACTGTAATGAATCTAAGCAGCATTTCTGAAGTGGACTCT
TTGGTGGCTTTGCATTTTAAAAATGAAATTTTCCAATGTCTGCCACACAAACGTATGTAAATGTATATACCCACA
CACATACACATATGTCATATATTACTAGCATATGAGTTTCATAGCTAAGAAATAAACTGTTAAAGTCTCCAA
ACT

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FIGURE 2094

MAEHDYHEDYGFSSFNDSSQEEHQDFLQFSKVFLPCMYLVVFVCGLVGNSLVLVISIFYHKLQSLTDVFLVNLPL
ADLVFVCTLPFWAYAGIHEWVFGQVMCKSLLGIYTFYTSMLILTCITVDRFIVVVKATKAYNQQAQRMTWGKV
TSLLIWVISLLVSLPQIIYGNVFNLDKLCGYHDEAISTVVLATQMTLGFFLPLLTMIVCYSVIIKTLLHAGGFQ
KHRSLKIIFLVMAVFLLTQMPFNLMKFIRSTHWEYYAMTSFHYTIMVTEAIAYLRACLNPVLYAFVSLKFRKNFW
KLVKDIGCLPYLGVSHQWKSSDNSKTFSASHNVEATSMFQL

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FIGURE 2095

CGGAGCGCGAGCAGAGCGAGACCCCCAGGTCCTGCGGGCGCGGAATATCCTGGAACCTTCTTTGTTTGTCTAGCA
GCCAAGGTGTTTCCAGGAAGTTCAGAGAGAACAGAATTTAAGAAGTGCAACATGGCCAGGGGCTGCCTCTGCTGC
TTGAAGTACATGATGTTCTCTTCAATTTGATATTCTGGCTCTGTGGCTGTGGGCTGTGGGAGTGGGCATCTGG
CTCTCCGTGTCCAAGGCAACTTTGCCACCTTCTCCCCAGCTTCCCTTCGTTGTCTGCAGCCAACCTGGTCATT
GCCATAGGCACCATTGTCTGTCATGGTGACGGGCTTCCTCGGCTGCCTGGGGGCCATCAAGGAAAAACAAGTGCCTCCTC
CTCAGCTTTTTTCATCGTCCTGTTGGTCATCCTCCTAGCAGAGCTGATCTTACTCATCCTCTTCTTTGTCTACATG
GACAAGGTGAACGAGAACGCCAAGAAGGACCTGAAGGAAGGCCTGCTGCTGTACCACACCGAGAACAACTGTTGGG
CTGAAGAACGCCTGGAACATCATCCAGGCTGAGATGCGATGCTGTGGTGTCACTGACTACACAGACTGGTACCCA
GTGCTGGGGGAGAACACGGTTCCTGACCGCTGCTGTCATGGAGAACTCCAGGGCTGCGGGCGCAACGCCACCACG
CCTTTGTGGAGAACGGGCTGCTATGAAAAGGTGAAGATGTGGTTCGATGACAATAAGCACGTGCTGGGCACGGTG
GGGATGTGCATCCTCATCATGCAGATCCTGGGCATGGCCTTCTCCATGACCCTCTTCCAGCACATCCACCGGACT
GGTAAGAAGTACGACGCATGAGCGGGCTGGCCGGGAGTGCCACCCCGCCCTGCTGCCCTGTGGAGGGAAGAGGA
TTGAGCTTTGTGTACCTGCCTGCGCTCTCCAGATATGACCCCTGCACCCACCCCCACAGCCTGCCCTACCCCA
CCTACCCTGCCTCAGCCTCGGACTTCTCAGTGGGTGGAGTGCCAGGGAGGAGGAGGCACACGGAGACCTGGGGCT
CGGGGCCCCCTGGATTCTGTCATCTGCATATGCGTATTTGCCAAAGACGACAGGGTGGGCTGGGGTTCGCTCCGGA
GGAACCCCCGGCACTGATGGGCTTCTGCCCCTGCCCTTCCTCACACTGACACTTTGTCCCCACATGGGGTGGGA
GCAGAGTGCCCGCCCCGTGGAGATACCGCCCCAGCGGGGGCTGCGACATCCATGGCCACCATGGGGCACCTGGCG
GGGCGGGGGTCTGCCGGCCTCTGGGCAAGGCCCTGGAGCATCTCGCCAGGCTTTTATACCTTACAATGTAAC
TTTTTTATTTTATTTTACTCTATGATTATTCAGGAATATTATCTCTCAGATAAGTTTAGGGTTAAAAAAAAAAAA
AAAAAA

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FIGURE 2096

MARGCLCCLKYMMFLFNLI FWLCGCGLLGVGIWLSVSQGNFATFSPSFPSLSAANLVIAIGTIVMVTGFLGCLGA
IKENKCLLLSFFIVLLVILLAEIILLILFFVYMDKVNENAKKDLKEGLLLYHTENNVGLKNAWNI IQAEMRCCGV
TDYTDWYPVLGENTVPDRCCMENSQGCGRNATTPLWRTGCEYKVKMWFDNKHVLGTVGMCILIMQILGMAFSMT
LFQHIHRTGKKYDA

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FIGURE 2097

TTGGAACACCTGGCGAGTCCTCGGTGTCGGTGGCCGGCAGTCATCTCGCGGCCGTTT CAGAATTATAAGGCTGTCT
GCAGAGATTTGAAAAATGGCAACAAATGAAAGTGT CAGCATCTTTAGTTCAGCATCCTTGGCTGTGGAATATGTA
GATTCACCTTTTACCTGAGAATCCTCTGCAAGAACCATTTAAAAATGCTTGGAAC TATATGTTGAATAATTATACA
AAGTTCCAGATTGCAACATGGGGATCCCTTATAGTTCATGAAGCCCTTTATTTCTTATTCTGTTTACCTGGATT
TTATTTCAATTTATACCTTATATGAAAAATACAAAATTCAAAAGGATAAGCCAGAGACATGGGAAAACCAATGG
AAGTGTTCAAAGTTCTTCTCTTTAATCACTTCTGTATCCAGCTGCCTTTGATTTGTGGAACCTATTATTTTACA
GAGTATTTCAATATTCCTTATGATTGGGAAAGAATGCCAAGATGGTATTTTCTTTTGGCAAGATGCTTTGGTTGT
GCAGTCATTGAAGATACTTGGCACTATTTTCTGCATAGACTCTTACACCACAAAAGAATATACAAGTATATTCAT
AAAGTTCATCATGAGTTTCAGGCTCCATTTGGAATGGAAGCTGAATATGCACATCCTTTGGAGACTCTAATTCTT
GGAAGTGGATTTTTCATTGGAATCGTGCTTTTGTGTGATCATGTAATTCTTCTTTGGGCATGGGTGACCATTCTG
TTATTAGAAACTATTGATGTCCATAGTGGTTATGATATTCCTCTCAACCCTTTAAATCTGATCCCTTTCTATGCT
GGTTCTCGGCATCATGATTTCCACCACATGAACTTCATTGGAACTATGCTTCAACATTTACATGGTGGGATCGA
ATTTTGGAACAGACTCTCAGTATAATGCCTATAATGAAAAGAGGAAGAAGTTTGAGAAAAAGACTGAATAAATA
TCTCACGTAAACCTTCCTGAAAGATAAACGTTTTCTGAATTCAGAACTAGTAGCTAACATTGCTTCTGGAGAG
CAGAAATAAGCATGTCTTCTGGCTACTAAGTGATAAAAAGAACATTAACAACCTTTAATTACCTTCCTAGTGGA
ACTTTTTCTACTTTACCTACAAGTTCTATATATGTAGAAATGAATAAATATATATTTAAGTACAGTTTTCATGAG
GAAGTTTTAAAAGACCATGTTCCCTAAGCTTCCAAGAAGGTTTTGGATACTAGAAGTATTAATCTATGGCTTTTCT
CCCAGTAAAACCATAGGCCTGAAGTTCACATTGGGTCTTTAAATCTTTTAGATATATACTGGTCATTT CAGAAAA
TTCTTCATAGTGGTATTGGCCTTATATTTAACTTTTTTTTTTTTATTTTTTTTTTTGAGACAAAGCCACACTCTGTCTC
CTTGCTCTGGAGTGTGGTGGCACAGTCTCAGCTCACTGCAACCTCTGCCTCCCAGTTCAAGCAATTCTTCTGCCTC
AGCCTCCCAAGTAGCTGGGATTACAGGCACCCGCCACCACGCCAGCTAATTTTTGTATTTTTGTAGAGATGGGG
TTTCTCGATGTTGGCCAGGCTGGTCTCAAACCTTCTGACCTCAAGTGATCTGCCACCTTGGCCTCCCAAAGTGCT
GGGATTACAGGTGTAAGCCACTGCGCCCGGCCTTTTAACTTTAAACATGTTTTAGAAATTCACCTAAAGATCAAA
ATATCATGGATTGAAC

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FIGURE 2098

MATNESVSIFSSASLAVEYVDSLLPENPLQEPFKNAWNYMLNNTKFIATWGS LIVHEALYFLFCLPGFLFQFI
PYMKKYKIQDKPETWENQWKCFKVLLFNHFCIQLPLICGTYTFTEYFNIPYDWERMPRWYFLLARCFGCAVIED
TWHYFLHRL LHHKRIYKYIHKVHHEFQAPFGMEAEYAHPLETLILGTGFFIGIVLLCDHVILLWAWVTIRLLETI
DVHSGYDIPLNPLNLIPFYAGSRHHDFFHMFIGNYASTFTWWDRIFGTDSQYNAYNEKRKKFEKKTE

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FIGURE 2099

GCCGCCGCCGCCATGAACATTTTCCGGCTGACTGGGGACCTGTCCACCTGGCGGCCATCGTCATCCTGCTGCTG
AAGATCTGGAAGACGCGCTCCTGCGCCGGTATTTCTGGGAAAAGCCAGCTTCTGTTTGCACTGGTCTTCACAACT
CGTTACCTGGATCTTTTTACTTCATTTATTTTCATTGTATAACACATCTATGAAGGTTATCTACCTTGCCTGCTCC
TATGCCACAGTGTAACCTGATCTACCTGAAATTTAAGGCAACCTACGATGGAAATCATGATACCTTCCGAGTGGAG
TTTCTGGTGGTCCCTGTGGGAGGCCTCTCATTTTTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGGACC
TTCTCCATCTACCTGGAGTCCGTGGCTATCCTTCCGCAGCTGTTTATGATCAGCAAGACTGGGGAGGCCGAGACC
ATCACCACCCACTACCTGTTCTTCTGGGCCTCTATCGTGCTTTGTATCTTGTCAACTGGATCTGGCGCTTCTAC
TTTGAGGGCTTCTTTGACCTCATTGCTGTGGTGGCCGGCGTAGTCCAGACCATCCTATACTGTGACTTCTTCTAC
TTGTACATTACAAAAGTACTCAAGGGAAAGAAGCTCAGTTTGCCAGCATATAAGTGCCAAAGACCATCACCAGCATC
TGTCTTCAGGGTGCTCGGACAGAATTCTTACCACAGCAAAGGCATAAGATGCTTGATACGGAAAATCAGAACT
TAACTCTTTTGTTCAGATAGTCATCAGTGGCTCTGTAAAAACGCAGAGGAAAAGAGCCAGAAGGTTTCTGTTTA
ATGCATCTTGCCCTATCTTTTTTTATTACTGTGTACAAAGATTTTTTTACACAAAGAACTTAATGCTGTATTAA
TAAATTCAGTGTGTAGCTTCAATTGGGATAGTTCCAAAAGTGAAGATTTTGTGAGGAATAAGTGCAAATTTTTTT
TTTATTTTAAAAAATTCTTTGAACTCTTAAGTCTTTGTGTCTGCAATGAAATTGTACTCCTTGACAGTTGATAG
ATTATGTATTCTTCCATCCCTCAAACCTGCATTCCACTATATTTATTTTTTGGCAAAGATGAGCTGTATTTGTT
TGAAATCTGAGACACTATGTTCAATTGG

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FIGURE 2100

MNIFRLTGDLSHLAAIVILLLLKIWKTRSCAGISGKSQLLFALVFTTRYLDLFTSFISLYNTSMKVIYLACSYATV
YLIYLFKFKATYDGNHDTFRVEFLVVPVGGLSFLVNHDFSPLEILWTFSIYLESVAILPQLFMISKTGEAETITTH
YLFFLGlyRALYLVNWIWRFYFEGFFDLIAVVAGVVQTILYCDFFYLYITKVLKGKKLSLPA

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FIGURE 2101

GAGGAGTGGATTACATATTCCAACAGTTGTTATTACATTGGTAAGGAAAGAAGAACTTGGGAAGAAAGAGTTTGC
TGGCCTGTGCTTCGAAGAAGCTCTGATCTGCTTTCTATAGATAATGAGGAAGAAATGGTATGTGTGGGGACTTCCC
AGTTGGCTGTAAGTTGCCATTTGAACTAAACGAAATAGATCAGGAAGTGGGACATATCTAAATTTTCTAGTTTT
ATAGAAGGCTTTTATCCACAAGAATCAAGATCTTCCCTCTCTGAGCAGGAATCCTTTGTGCATTGAAGACTTTAG
ATTCTCTCTGCGGTAGACGTGCACCTATAAGTATTTGATGGGGTGGATTTCGTGGTGGGAGGTCTCGACACAGCT
GGGAGATGAGTGAATTTTATAATTATAACTTGGATCTGAAGAAGAGTGATTTTTTCAACACGATGGCAAAAGCAAA
GATGTCCAGTAGTCAAAAGCAAATGTAGAGAAAATGCATCTCCATTTTTTTTTCTGCTGCTTCATCGCTGTAGCCA
TGGGAATCCGTTTCATTATTATGGTAGCAATATGGAGTGCTGTATTCTTAACTCATTATTCAACCAAGAAGTTC
AAATTCCCTTGACCGAAAGTTACTGTGGCCCATGTCTAAAAGCTGGATATGTTACAAAAATAACTGCTACCAAT
TTTTTGATGAGAGTAAAACTGGTATGAGAGCCAGGCTTCTTGTATGTCTCAAAATGCCAGCCTTCTGAAAGTAT
ACAGCAAAGAGGACCAGGATTTACTTAACTGGTGAAGTCATATCATTGGATGGGACTAGTACACATTCCAACAA
ATGGATCTTGGCAGTGGGAAGATGGCTCCATTCTCTACCCAACCTACTAACAATAATTGAAATGCAGAAGGGAG
ACTGTGCACTCTATGCCTCGAGCTTTAAAGGCTATATAGAAAAGCTGTTCAACTCCAAATACATACATCTGCATGC
AAAGGACTGTGTAAAGATGATCAACCATCTCAATAAAAGCCAGGAACAGAGAAGAGATTACACCAGCGGTAACAC
TGCCAACCGAGACTAAAGGAAACAAACAAAAACAGGACAAAATGACCAAAGACTGTCAGATTTCTTAGACTCCAC
AGGACCAAACCATAGAACAATTTCACTGCAAACATGCATGATTCTCCAAGACAAAAGAAGAGAGATCCTAAAGGC
AATTCAGATATCCCCAAGGCTGCCTCTCCCACCACAAGCCCAGAGTGGATGGGCTGGGGGAGGGGTGCTGTTTTA
ATTTCTAAAGGTAGGACCAACACCCAGGGGATCAGTGAAGGAAGAGAAGGCCAGCAGATCAGTGAGAGTGCAACC
CCACCCTCCACAGGAAATTGCCTCATGGGCAGGGCCACAGCAGAGAGACACAGCATGGGCAGTGCCTTCCCTGCC
TGTGGGGTTCATGCTGCCACTTTTAATGGGTCTCCACCCAACGGGGTCAGGGAGGTGGTGTGCCCCAGTGGGC
CATGATTATCTTAAAGGCATTATTCTCCAGCCTTAAGATCTTAGGACGTTTCCTTTGCTATGATTTGTACTTGCT
TGAGTCCCATGACTGTTTCTTCTCTCTTTCTTCTTTTGGGAATAGTAATATCCATCCTATGTTTGTCCCACT
ATTGTATTTTGAAGCACATAACTTGTTTGGTTTCACAGGTTACAGTTAAGAAGGAATTTTGCTCTGAATAAA
TAGAATCTTGAGTCTCATGCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2102

MGWIRGRRSRHSWEMSEFHNYNLDLKKSDFSTRWQKQRCPVVKSCKRENASPPFFCCFIAMGIRFIIMVAIWS
AVFLNSLFNQEVQIPLTESYCGPCPKNWICYKNNCYQFFDESKNWYESQASCMSQNASLLKVYSKEDQDLLKLVK
SYHWMGLVHIPTNGSWQWEDGSILSPNLLTIIEMQKGDALYASSFKGYIENCSTPNTYICMORTV

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FIGURE 2103

CTCGTGCCGAATTTCGGCACGAGACCGCGTGTTTCGCGCCTGGTAGAGATTTCTCGAAGACACCAGTGGGCCCCGTGT
GGAACCAAACCTGCGCGCGTGGCCGGGCGTGGGACAACGAGGCCGCGGAGACGAAGGCGCAATGCGCGAGGAAGT
TATCTGTAATCTTGATCCTGACCTTTGCCCTCTCTGTACAAATCCCCTTCATGAACATAAAGCAGCTGCTTTCC
CCCAGACCACTGAGAAAAATTAGTCCGAATTGGGAATCTGGCATTAAATGTTGACTTGGCAATTTCCACACGGCAAT
ATCATCTACAACAGCTTTTCTACCGCTATGGAGAAAAATAATTCTTTGTGAGTTGAAGGGTTCAGAAAAATTACTTC
AAAATATAGGCATAGATAAGATTAAAAGAATCCATATACACCATGACCACGACCATCACTCAGACCACGAGCATC
ACTCAGACCATGAGCGTCACTCAGACCATGAGCATCACTCAGACCACGAGCATCACTCTGACCATAATCATGCTG
CTTCTGGTAAAAATAAGCGAAAAGCTCTTTGCCAGACCATGACTCAGATAGTTTCAAGTAAAGATCCTAGAAACA
GCCAGGGGAAAGGAGCTCACCAGCAGAACATGCCAGTGGTAGAAGGAATGTCAAGGACAGTGTTAGTGCTAGTG
AAGTGACCTCAACTGTGTACAACACTGTCTCTGAAGGAACACTCTTCTAGAGACAATAGAGACTCCAAGACCTG
GAAAACTCTTCCCCAAAGATGTAAGCAGCTCCACTCCACCCAGTGTACATCAAAGAGCCGGGTGAGCCGGCTGG
CTGGTAGGAAAACAAATGAATCTGTGAGTGAGCCCCGAAAAGGCTTTATGTATTCCAGAAACACAAATGAAAATC
CTCAGGAGTGTTTCAATGCATCAAAGCTACTGACATCTCATGGCATGGGCATCCAGGTTCCGCTGAATGCAACAG
AGTTCAACTATCTCTGTCCAGCCATCATCAACCAAATTGATGCTAGATCTTGTCTGATTACATAAGTGAAAAGA
AGGCTGAAATCCCTCCAAAGACCTATTTCATTACAAATAGCCTGGGTGGTGGTTTTATAGCCATTTCCATCATCA
GTTTCTGTCTCTGCTGGGGGTTATCTTAGTGCTCTCATGAATCGGGTGTTTTTCAAATTTCTCCTGAGTTTCC
TTGTGGCACTGGCCGTTGGGACTTTGAGTGGTGATGCTTTTTTACACCTTCTTCCACATTCTCATGCAAGTCACC
ACCATAGTCATAGCCATGAAGAACCAGCAATGGAAATGAAAAGAGGACCACTTTTCACTCATCTGTCTTCTCAA
ACATAGAAGAAAGTGCCATTTTTTGATTCCACGTGGAAGGGTCTAACAGCTCTAGGAGGCCGTGATTTTCATGTTTC
TTGTTGAACATGTCCTCACATTGATCAACAATTTAAAGATAAGAAGAAAAAGAAATCAGAAGAAACCTGAAAATG
ATGATGATGTGGAGATTAAGAAGCAGTTGTCCAAGTATGAATCTCAACTTTCAACAAATGAGGAGAAAGTAGATA
CAGATGATCGAACTGAAGGCTATTTACGAGCAGACTCACAAGAGCCCTCCCACTTTGATTCTCAGCAGCCTGCAG
TCTTGGAAAGAAGAAGAGGTGATGATAGCTCATGCTCATCCACAGGAAGTCTACAATGAATATGTACCCAGAGGGT
GCAAGAATAAATGCCATTACATTTCCACGATACACTCGGCCAGTCAGACGATCTCATTACACCACCATCATGACT
ACCATCATATTTCTCCATCATCACACCACCAAAACCACCATCCTCACAGTCACAGCCAGCGCTACTCTCGGGAGG
AGCTGAAAGATGCCGGCGTCGCCACTTTGGCCTGGATGGTGATAATGGGTGATGGCCTGCACAAATTCAGCGATG
GCCTAGCAATTTGGTGCTGCTTTTACTGAAGGCTTATCAAGTGGTTTAAAGTACTTCTGTTGCTGTGTTCTGTCATG
AGTTGCCTCATGAATTAGGTGACTTTGCTGTTCTACTAAAGGCTGGCATGACCGTTAAGCAGGCTGTCCCTTTATA
ATGCATTGTCAGCCATGCTGGCGTATCTTGAATGGCAACAGGAATTTTCATTGGTCATTATGCTGAAAATGTTT
CTATGTGGATATTTGCACTTACTGCTGGCTTATTCATGTATGTTGCTCTGTTGATATGGTACCTGAAATGCTGC
ACAATGATGCTAGTGACCATGGATGTAGCCGCTGGGGGTATTTCTTTTTACAGAATGCTGGGATGCTTTTGGGTT
TTGGAATTATGTTACTTATTTCCATATTTGAACATAAAATCGTGTTCGTATAAATTTCTAGTTAAGGTTTAAAT
GCTAGAGTAGCTTAAAAAGTTGTCATAGTTTCAGTAGGTCATAGGGAGATGAGTTTGTATGCTGTACTATGCAGC
GTTTAAAGTTAGTGGGTTTTGTGATTTTTGTATTGAATATTGCTGTCTGTTACAAAGTCAGTTAAAGGTACGTTT
TAATATTTAAGTTATTCTATCTTGGAGATAAAATCTGTATGTGAATTCACCGGTATTACCAGTTTATTATGTAA
ACAAGAGATTTGGCATGACATGTTCTGTATGTTTCAGGGAAAAATGTCTTTAATGCTTTTCAAGAACTAACACA
GTTATTCTTATACTGGATTTTAGGTCTCTGAAGAACTGCTGGTG

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FIGURE 2104

MARKLSVILILTFALSVTNPLHELKAAAFPQTTEKISPNWESGINVDLAISTROYHLQQLFYRYGENNSLSVEGF
RKLLQNIGIDKIKRIHIHHDHSDHEHSDHERHSDHEHSDHEHSDHNHAASGKNKRKALCPDHDSDSSGK
DPRNSQGGKAHRPEHASGRRNVKDSVSASEVTSTVYNTVSEGTHFLETIETPRPGKLFPKDVSSSTPPSVTSKSR
VSRLAGRKTNESVSEPRKGFMYSRNTNENPQECFNASKLLTSHGMGIQVPLNATEFNILCPAIINQIDARSCLIH
TSEKKAIEIPPKTYSLQIAWVGGFIAISIIISFLSLLGVILVPLMNRVFFKFLLSFLVALAVGTLSGDAFLHLLPHS
HASHHHSHSHEEPAMEMKRGLFSLSSQNIEESAYFDSTWKGLTALGGLYFMFLVEHVLTLIKQFKDKKKKNQK
KPENDDVEIKKQLSKYESQLSTNEEKVDTDRTGYLRADSQEP SHFDSQQPAVLEEEVMIHAHPQEVYNEY
VPRGCKNKCHSHFDTLGQSDDLHHHHHDYHHILHHHHHQNHHPHSHSQRYREELKDAGVATLAWMVIMGDGLH
NFSGGLAIGAAFTGLSSGLSTSVAVFCHELPHELGDFAVLLKAGMTVKQAVLYNALSAMLAYLGMATGIFIGHY
AENVSMWIFALTAGLFMYVALVDMVPEMLHNDASDHGCSRWGYFFLQAGMLLGFGIMLLIPYLNKSCSYKFLV
KV

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FIGURE 2105

GTATCTGTGGTAAACCCAGTGACACGGGGGAGATGACATACAAAAGGGCAGGACCTGAGAAAGATTAAGCTGCA
GGCTCCCTGCCCATAAAACAGGGTGTGAAAGGCATCTCAGCGGCTGCCCCACCATGGCTACCTGGGCCCTCCTGC
TCCTTGACCCATGCTCCTGGGCAACCCAGGTCTGGTCTTCTCTCGTCTGAGCCCTGAGTACTACGACCTGGCAA
GAGCCCACCTGCGTGATGAGGAGAAATCCTGCCCGTGCTGGCCCAGGAGGGCCCCCAGGGTGACCTGTTGACCA
AAACACAGGAGCTGGGCCGTGACTACAGGACCTGTCTGACGATAGTCCAAAACTGAAGAAGATGGTGGATAAGC
CCACCCAGAGAAGTGTTTCCAATGCTGCGACCCGGGTGTGTAGGACGGGGAGGTCACGATGGCGCGACGTCTGCA
GAAATTTTCATGAGGAGGTATCAGTCTAGAGTTACCCAGGGCCTCGTGGCCGGAGAACTGCCCAGCAGATCTGTG
AGGACCTCAGGTTGTGTATACCTTCTACAGGTCCCCTCTTGAGCCCTCTCACCTTGTCTGTGGAAGAAGCACAGG
CTCCTGTCTCAGATCCCGGGAACCTCAGCAACCTCTGCCGGCTCCTCGCTTCCTCGATCCAGAATCCACTCTCC
AGTCTCCCTCCCCTGACTCCCTCTGCTGTCTCCTCCCCTCTCACGAGAATAAAGTGTCAGCAAG

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FIGURE 2106

MATWALLLLAAMLLGNPGLVFSRLSPEYYDLARAHLRDEEKSCPCLAQEGPQGDLLTKTQELGRDYRTCLTIVQK
LKKMVDKPTQRSVSNAATRVCRTGRSRWRDVCRNFMRRYQSRVTQGLVAGETAQQICEDLRLCIPSTGPL

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FIGURE 2107

CGGTTCTCCAAGCACCCAGCATCCTGCTAGACGCGCCGCGCACCGACGGAGGGGACATGGGCAGAGCAATGGTG
CCAGGCTGGGGCTGGGGCTGCTGCTGCTGGCACTGCTCCTACCCACGCAGATTTATTCCAGTGAAACAACA
GAACTTCAAGTAACTCCTCCAGAGTACTTCCAACCTCTGGGTTGGCCCCAAATCCAATAATGCCACCACCAAGG
CGGCTGGTGGTGGCCTGCAGTCAACAGCCAGTCTCTTCGTGGTCTCAGTCTCTCTTCTGCACTCTACTCTTAAG
AGACTCAGGCCAAGAAACGTCTTCTAAATTTCCCATCTTCTAAACCCAATCCAATGGCGTCTGGAAGTCCAAT
GTGGCAAGGAAAAACAGGTCTTCATCGAATCTACTAATTCACACCTTTTATTGACACAGAAAAATGTTGAGAATC
CCAAATTTGATTGATTTGAAGAACATGTGAGAGGTTTGACTAGATGATGAATGCCAATATTAAATCTGCTGGAGT
TTCATGTACAAGATGAAGGAGAGGCAACATCCAAAATAGTTAAGACATGATTTCTTGAATGTGGCTTGAGAAAT
ATGGACACTTAATACTACCTTGAAAAATAAGAATAGAAATAAAGGATGGGATTGTGGAATGGAGATTGAGTTTCA
TTGGTTTCAATTAATTCTATAAGGCCATAAAACAGGTAATATAAAAAGCTTCCATCGATCTATTATATGTACATGA
GAAGGAATCCCCAGGTGTTACTGTAATTCCTCAACGTATTGTTTCGACGGCACTAATTTAATGCCGATATACTCT
AGATGAATGTTTACATTGTTGAGCTATTGCTGTTCTCTTGGGAACGAACTCACTTCTCTCTGAGGCTTTGGAT
TTGACATTGCATTTGACCTTTTAGGTAGTAATTGACATGTGCCAGGGCAATGATGAATGAGAATCTACCCAGAT
CCAAGCATCCTGAGCAACTCTTGATTATCCATATTGAGTCAAATGGTAGGCATTTCCTATCACCTGTTTCCATT
AACAAGAGCACTACATTCTTTTAGCTAAACGATTCCAAAGAGTAGAATTGCATTGACCACGACTAATTTCAAAA
TGCTTTTTTATTATTATTATTTTTTAGACAGTCTCACTTTGTGCGCCAGGCCGGAGTGCAGTGGTGCGATCTCAGA
TCAGTGTACCATTTGCCTCCCGGGCTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCAC
CTGCCACCATGCCCAGCTAATTTTTGTAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCAGGCTGGTTTAGA
ACTCCTGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCCCCGCGCCCA
GCCATCAAAATGCTTTTTTATTCTGCAATATGTTTGAATACTTTTTTACAATTTAAAAAATGATCTGTTTTGAAGG
CAAAATTGCAAATCTTGAAATTAAGAAGGCAAAATGTAAAGGAGTCAAATATAAATCAAGTATTTGGGAAGTGA
AGACTGGAAGCTAATTTGCATAAATTCACAACTTTTATACTCTTCTGTATATACATTTTTTTCTTTAAAAA
CAACTATGGATCAGAATAGCAACATTTAGAACACTTTTTGTTATCAGTCAATATTTTAGATAGTTAGAACCTGG
TCCTAAGCCTAAAAGTGGGCTTGATTCTGCAGTAAATCTTTTACAACCTGCCTCGACACACATAAACCTTTTTAA
AATAGACACTCCCCGAAGTCTTTTGTGTTGATGGTCACACACTGATGCTTAGATGTTCCAGTAATCTAATATGGC
CACAGTAGTCTTGATGACCAAAGTCCTTTTTTCCATCTTTAGAAAACCTACATGGGAACAAACAGATCGAACAGT
TTTGAAGCTACTGTGTGTGTAATGAACACTCTTGCTTTATTCAGAAATGCTGTACATCTATTTTGGATTGTATA
TTGTGGTTGTGATTTACGCTTTGATTCATAGTAACCTCTTATGGAATTGATTTGCATTGAACGACAAACTGTAA
ATAAAAAGAAACGGTG

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FIGURE 2108

MGRAMVARLGGLGLLLLALLLPTQIYSSETTTGTSSNSSQSTSNGLAPNPTNATTKAAGGALQSTASLFVVSLSL
LHLYS

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FIGURE 2109

CTTCGCGGCTTGGTAAACATAAAAGTTTGTTCACACGTAAGCCGGACCTCGCACTCCGGTCCCGGTCTCGTCGC
CAAGATGGTGAAGCCCAAGTACAAAGGACGGAGCACCATCAACCCGTCCAAGGCCAGCACAAACCCAGATCGAGT
GCAGGGAGCAGGAGGCCAAAACATGAGGGACCGGGCCACCATCCGGCGCCTGAATATGTATAGGCAAAAGGAGCG
CAGGAACAGTCGTGGTAAAAATAATTAAACCCCTGCAATATCAATCAACGGTGGCTTCTGGCACAGTGGCAAGAGT
AGAGCCAAATATTAAATGGTTTGGAAACACACGTGTGATTAAGCAGTCATCATTACAAAAATTTCAAGAGGAAAT
GGATACAGTTATGAAGGATCCATACAAAGTTGTCTATGAAGCAAAGCAAGTTACCAATGTCTCTTCTCCATGATCG
AATCCGGCCTCATAACTTGAAGGTGCACATTCTTGATACTGAAAGTTTGAAGTACATTTGGCCCTAAGTCACA
GAGGAAACGACCAAACTTATTTGCAAGTGATATGCAGTCTCTTATCGAAAATGCTGAAATGTCCACTGAGAGCTA
TGACCAGGGCAAGGATCGTGATTTGGTAACTGAAGACACTGGTGTGAGAAATGAAGCTCAAGAAGAGATCTATAA
AAAGGGACAGTCCAAAAGAATATGGGGTGAGCTCTACAAGGTGATAGATTTCATCAGATGTTGTAGTTCAAGTTCT
TGATGCTAGAGATCCAATGGGTACTCGTTCCCTCACATTGAACTTACCTGAAGAAGGAAAAACCTTGGAACA
CCTCATTTTTGTACTTAACAAATGTGACCTTGTTCACCTGGGCAACAAAACGGTGGGTGCTGTCTCTCCCA
GGATTATCCAACACTTGCTTTCCATGCAAGCCTTACTAACCCGTTTGGAAGGGAGCATTTCATTAGCTTCTGCG
GCAGTTTGGAAGTTGCACACTGACAAGAAACAGATCAGTGTGGGTTCATTGGCTATCCAAATGTTGGCAAGAG
CTCTGTGATAAATACATTGCGTTCTAAGAAAGTTTGCAACGTGGCTCCCATTCAGAGTGAAACAAAGGTCTGGCA
GTATATTACTTTGATGCGTCGGATATTCTTGATTGACTGTCCAGGTGTGGTTTACCCCTCTGAGGACTCCGAGAC
AGACATTGTGCTAAAAGGAGTTGTTCAAGTAGAAAAAATTAAGAGTCTGAAGACCACATTGGTGCTGTACTTGA
ACGAGCAAAGCCAGAATATATCAGCAAAACATACAAGATTGATTCTTGGGAGAATGCTGAGGACTTTCTTGAGAA
GCTCGCTTTCCGGACTGGGAAGTTACTAAAGGGTGAGAGCCCCGACTTGCAAGTGTGGGTAAAGATGGTCCTCAA
TGACTGGCAGAGGGGCCGATTCCCTTTCTTTGTCAAGCCACCCAATGCAGAGCCACTTGTGGCCCCCAGCTTCT
ACCCTCCTCATCTTTGGAAGTTGTCCCAGAAGCAGCCAGAACAATCCAGGGGAGGAAGTCACAGAACTGCAGG
TGAAGGGTCAGAATCCATCATTAAAGGAAGAAACAGAAGAGAACAGTCACCTGTGATGCTAACACAGAGATGCAGCA
GATTCTCACACGAGTTTCGGCAGAACCTTGGTAAATCAACGTGGTGCCTCAGTTTTCTGGGGATGACCTGGTTCC
TGTGGAGGTGTGAGATCTTGAGGAAGAGCTTGAGAGCTTTTCTGATGAAGAGGAGGAGGAACAGGAGCAACAAAG
AGATGATGCGGAAGAGTCTTCCTCGGAGCCTGAGGAGGAAAATGTGGGAAACGACACCAAAGCCGTTATTAAAGC
ACTGGATGAGAAGATTGCCAAATATCAGAAGTTTCTAGACAAAGCCAAAGCCAAAAGTTTTCAGCAGTCAGAAT
ATCCAAGGGACTGAGTGAAAAGATATTTGCAAAACCTGAAGAACAAGAAAAACACTGGAAGAAGATGTAGATGA
CAGAGCACCTTCCAAAAGGGAAAGAAGCGGAAGGCACAAAGGGAAGAGGAACAGGAACATTCAAATAAAGCTCC
CAGGGCGCTTACATCAAAAGAACGGAGGCGAGCAGTACGACAGCAACGGCCGAAAAAGTTGGTGTGCGCTACTA
TGAAACACACAACGTGAAAAATAGGAACAGGAACAAAAGAAGACCAATGACTCAGAGGGACAGAAACACAAACG
CAAAAATTCAGACAAAAGCAGTAATGTTTAAAGGTTTTTATTAAATTATACAAAACAGGCCAAAAA
AAAAA

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FIGURE 2110

MVKPKYKGRSTINPSKASTNPDRVQGAGGQNMRRATIRRLNMYRQKERRNSRGKIIKPLQYQSTVASGTVARVE
PNIKWFGNTRVIKQSSLQKFEEMDTVMKDPYKVVMKQSKLPMSLLHDIRPHNLKVHILDTEFETTFGPKSQR
KRPNLFASDMQSLIENAEMSTESYDQGKDRDLVTEDTGVRNEAQEEIYKKGQSKRIWGELYKVIDSSDVVVQVLD
ARDPMGTRSPHIETYLKKEKPWKHLIFVLNKC DLVPTWATKRWVAVLSQDYPTLAFHASLTNPF GKAFIQLLRQ
FGKLHTDKKQISVGFIGYPNVGKSSVINTLRSKKVCNVAPIAGETKVWQYITLMRRIFLIDCPGVVYPSEDSETD
IVLKGVVQVEKIKSPEDHIGAVLERAKPEYISKTYKIDSWENAEDFLEKLAFRTGKLLKGGEPLQTVGKMVLND
WQRGRIPFFVKPPNAEPLVAPQLLPSSSLEVPEAAQNNPGEEVTETAGEGSESIKEETEENSHCDANTEMQOI
LTRVRQNF GKINVVPQFSGDDLVPVEVSDLEEELESFSDEEEEEEQEQRDDAEESSEPEEENVGNDTKAVIKAL
DEKIAKYQKFLDKAKAKKFSAVRISKGLSEKIFAKPEEQRKTL EEDVDDRAPSKKGKKRKAQREEEQEHSNKAPR
ALTSKERRRAVRQQRPKKVGVRYETHNVKNRNRNKKKTNDSEGQKHKKKFRQKQ

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FIGURE 2111

GGCACGAGGGCTGCCACGGCATGGAGAATGGCTCCGCTTCTGTTGCAGCTGGCGGTGCTCGGCGCGGCGCTGGCG
GCCGCAGCCCTCGTACTGATTTCCATCGTTGCATTTACAAGTCTACAAAAATGCCAGCACTCCATCGACATGAA
GAAGAGAAATTCTTCTTAAATGCCAAAGGCCAGAAAGAACTTTACCCAGCATATGGGACTCACCTACCAAACAA
CTTTCTGTGCTTGTGCCTTCATACAATGAAGAAAAACGGTTGCCTGTGATGATGGATGAAGCTCTGAGCTATCTA
GAGAAGAGACAGAAACGAGATCCTGCGTTCACTTATGAAGTGATAGTAGTTGATGATGGCAGTAAAGATCAGACC
TCAAAGGTAGCTTTTAAATATTGCCAGAAATATGGAAGTGACAAAGTACGTGTGATAACCTTGGTGAAGAATCGT
GGAAAAGGTGGAGCGATTAGAATGGGTATATTCAAGTTCTCGAGGAGAAAAGATCCTTATGGCAGATGCTGATGGA
GCCACAAAGTTTCCAGATGTTGAGAAATTAGAAAAGGGGCTAAATGATCTACAGCCTTGGCCTAATCAAATGGCT
AATAGCATGTGGATCTCGAGCTCATTTAGAAAAAGAATCAATTGCTCAGCGTTCTTACTTCCGTACTCTTCTCATG
TATGGGTTCCACTTTCTGGTGTGGTTCCCTTTGTGTCAAAGGAATCAGGGACACACAGTGTGGGTTCAAATTATTT
ACTCGAGAAGCAGCTTCACGGACGTTTTTCATCTCTACACGTTGAACGATGGGCATTTGATGTAGAACTACTGTAC
ATAGCACAGTTCTTTAAATTTCCAATAGCAGAAATTGCTGTCAACTGGACAGAAATTGAAGGTTCTAAATTAGTT
CCATTCTGGAGCTGGCTACAAATGGGTAAAGACCTACTTTTTATACGACTTCGATATTTGACTGGTGCCTGGAGG
CTTGAGCAAACCTCGGAAAATGAATTAGGTTGTTTGCAGTCTTCAGTTGTGTTCTTATGCTTCAGTGTACATTTT
ATTCATTTGAAACTAAAATTTTAAGTAAAGCTGAAATAAACTTCTTGTGATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2112

MAPLLLQLAVLGAALAAAALVLISIVAFTTATKMPALHRHEEEKFFLNAKGQKETLPSIWDSP TKQLSVVPSYN
EEKRLPVMMDEALSYLEKRQKRDP AFTYEIVVDDGSKDQTSKVAFKYCQKYGSDKVRVITLVKNRGKGG AIRMG
IFSSRGEKILMADADGATKFPDVEKLEKGLNDLQPWPNQMAIACGSRAHLEKESIAQRSYFRTL LMYGFHFLVWF
LCVKGIRD TQCGFKLFTREAASRTFSSLHVERWAFDVELLYIAQFFKIP IAEIAVNWTEIEGSKLVPFWSWLQMG
KDLLFIRLRYLTGAWRLEQTRKMN

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FIGURE 2113

GCCTTGCAGAACTTCTACTTGCCTGCCTCCCTGCCTCTGGCCATGGCCTGCCGGTGCCTCAGCTTCCTTCTGATG
GGGACCTTCCTGTCAGTTTCCCAGACAGTCCTGGCCCAGCTGGATGCACTGCTGGTCTTCCCAGGCCAAGTGGCT
CAACTCTCCTGCACGCTCAGCCCCCAGCACGTCACCATCAGGGACTACGGTGTGTCTGGTACCAGCAGCGGGCA
GGCAGTGGCCCTCGATATCTCCTCTACTACCGCTCGGAGGAGGATCACCACCGGCCTGCTGACATCCCCGATCGA
TTCTCGGCAGCCAAGGATGAGGCCCAATGCCTGTGTCCTCACCATTAGTCCCGTGCAGCCTGAAGACGACGCG
GATTACTACTGCTCTGTTGGCTACGGCTTTAGTCCCTTAGGGGTGGGGTGTGAGATGGGTGCCTCCCCCTCTGCCTC
CCATTTCTGCCCCCTGACCTTGGGTCCCTTTTAAACTTTCTCTGAGCCTTGCTTCCCCCTCTGTAAAATGGGTTAAT
AATATTCAACATGTCAACAAAAA

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FIGURE 2114

MACRCLSFLLMGTFLSVSQTVLAQLDALLVFPQVAQLSCTLSPQHVTIRDYGVSWYQQRAGSAPRYLLYYRSEE
DHHRPADIPDRFSAKDEAHNACVLTISPVPEDDADYYCSVGYGFSF

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FIGURE 2116

MCRKICAALDLWSNPHNHQYCLRLPAGSQGLRDSIFKGICTSLSSCTLVFYSLQPRITTPQSFFAPYLCSDLQQNV
FHLSFKSVACNLCPH

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FIGURE 2117

CAGTGCGGCGGATGTACGGATGATTTCAGTGGCTGGCAGGAAGCCCGCCCTGCCCGCCCGCCAGTGTCAGTGGTGT
TGGCATCAGCTTGGGCAGGTGTGCGGGCTCAGGATGGGGCGGCCGTGTTGAGGAACCCCTGGACTCTCAGAGATGG
AATTTACCGTGTTGCCTAGGCTGGTCTGGAGCTCTTGATCTCAAGCGATCCTCCCTGCCCTCGGCCCTCCCAACGT
GCTGGGATTATAGGCGTGAGCCACCGCTCCTGGCCAGGGTCTGTTCCCTAGTTGCAACAGTTCTTGGAACCCACT
CGAGAGGGCCACGCCTCCATTACCAGGCCACGCATCACAAGAGGCAACACCAGGAGCCAACATGAGCTCGGGGA
CTGAACTGCTGTGGCCCGGAGCAGCGCTGCTGGTGCTGTTGGGGGTGGCAGCCAGTCTGTGTGTGCGCTGCTCAC
GCCCAGGTGCAAAGAGGTGAGAGAAAATCTACCAGCAGAGAAGTCTGCGTGAGGACCAACAGAGCTTTACGGGT
CCCGGACCTACTCCTTGGTCGGGCAGGCATGGCCAGGACCCCTGGCGGACATGGCACCCACAAGGAAGGACAAGC
TGTTGCAATTCTACCCACAGCCTGGAGGATCCAGCATCTTCCAGGTACCAGAACTTCAGCAAAGGAAGCAGACAG
GGTCGGAGGAAGCCTACATAGACCCATTGCCATGGAGTATTACAACGGGGGCGGTTCTCGAAGCCCCCAGAAG
ATGATGATGCCAATTCTACGAGAATGTGCTCATTTGCAAGCAGAAAACACAGAGACAGGTGCCAGCAGGAGG
GCATAGGTGGCCTCTGCAGAGGGGACCTCAGCCTGTCACTGGCCCTGAAGACTGGCCCCACTTCTGGTCTCTGTC
CCTCTGCCCTCCCGGAAGAAGATGAGGAATCTGAGGATTATCAGAACTCAGCATCCATCCATCAGTGGCGCGAGT
CCAGGAAGGTCATGGGGCAACTCCAGAGAGAAGCATCCCCTGGCCCGGTGGGAAGCCCAGACGAGGAGGACGGGG
AACCGGATTACGTGAATGGGGAGGTGGCAGCCACAGAAGCCTAGGGCAGACCAAGAAGAAAGGAGCCAAGGCAAA
GAGGGACCACTGTGCTCATGGACCCATCGCTGCCTTCCAAGGACCATTTCCCAGAGCTACTCAACTTTTAAGCCC
CTGCCATGGTTGCTCCTGGAAGGAGAACCAGCCACCCTGAGGACCACCTGGCCATGCGTGCACAGCCTGGGAAAA
GACAGTTACTCACGGGAGCTGCAGGCCCCGTCACCAAGCCCTCTCCCGACCCAGGCTTTGTGGGGCAGGCACCTGG
TACCAAGGGTAACCCGGCTCCTGGTATGGACGGATGCGCAGGATTTAGGATAAGCTGTCAACCCAGTCCCCATAAC
AAAACCACTGTCCAACACTGGTATCTGTGTTCTTTTGCTATGAATTTGGATTCTTAATTGCTATTGTTGGTTG
CTGGGGTTTTAAATGATTGATAAGCTTGTACAGTTAACTTATAGAGGGGGAGCCATATTTAATCTGGATTTT
AGAGTAGAGATTTCTGTGTTGTCTCCTAGAAAGCATTACATGTAGTTTATTTTCAGCATCCTTGTGGGTGGGGCC
CTGGCTCTCTTCCCTTTGGTGGGACCTCCCCTTTCTTTGGGCTTCAGTTCACTCAGGAAGAAATGAGGCTGTCC
CCATCTTTATGTGCTTCCAGTGGAATGTCACTTGCTACAGACAATAGTGCATGAGAGTCTAGAGAAGTAGTGAC
CAGAACAGGGCAGAGTAGGTCCCCTCCATGGCCCTGAATCCTCCTCTGCTCCAGGGCTGGCCTCTGCAGAGCTGA
TTAAACAGTGTTGTGACTGTCTCATGGGAAGAGCTGGGGCCCAGAGGGACCTTGAGTCAGAAATGTTGCCAGAAA
AAGTATCTCCTCCAACCAAAACATCTCAATAAAACCATTTTAGTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2118

MSSGTELLWPGAALLVLLGVAASLCVRCSRPGAKRSEKIYQQRSLREDQQSFTGSRTYSLVGQAWPGPLADMAPT
RKDKLLQFYPSLEDPASSRYQNFSGSRHGSEEAYIDPIAMEYYNWGRFSKPPEDDDANSYENVLICKQKTTETG
AQQEGIGGLCRGDLSSLALKTGPTSGLCPSASPEEDEESEDYQNSASIHQWRESRKVMGQLQREASPGPVGSPD
EEDGEPDYVNGEVAATEA

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FIGURE 2119

GGTCGCTTGGTGGCTCCGTCTGTTGTCCGTCCGCCCGCGGGTGCCATCATGGCGGACGCGGCCAGTCAGGTGCTC
CTGGGCTCCGGTCTCACCATCCTGTCCCAGCCGCTCATGTACGTGAAAGTGCTCATCCAGGTGGGATATGAGCCT
CTTCCTCCAACAATAGGACGAAATATTTTTGGGCGGCAAGTGTGTCAGCTTCCTGGTCTCTTTAGTTATGCTCAG
CACATTGCCAGTATCGATGGGAGGCGCGGGTTGTTACAGGCTTAACTCCAAGACTGTGTTGCGGAGTCCTTGGA
ACTGTGGTCCATGGTAAAGTTTTACAGCATTACCAGGAGAGTGACAAGGGTGAGGAGTTAGGACCTGGAAATGTA
CAGAAAGAAGTCTCATCTTCCTTTGACCACGTTATCAAGGAGACAACTCGAGAGATGATCGCTCGTTCTGCTGCT
ACCCTCATCACACATCCCTTCCATGTGATCACTCTGAGATCTATGGTACAGTTCATTGGCAGAGAATCCAAGTAC
TGTGGACTTTGTGATTCCATAATAACCATCTATCGGGAAGAGGGCATTCTAGGATTTTTTCGCGGGTCTTGTTCCT
CGCCTTCTAGGTGACATCCTTTCTTTGTGGCTGTGTAACCTACTGGCCTACCTCGTCAATACCTATGCACTGGAC
AGTGGGGTTTTCTACCATGAATGAAATGAAGAGTTATTCTCAAGCTGTCACAGGATTTTTTGCGAGTATGTTGACC
TATCCCTTTGTGCTTGTCTCCAATCTTATGGCTGTCAACAACCTGTGGTCTTGCTGGTGGATGCCCTCCTTACTCC
CCAATATATACGTCTTGGATAGACTGTTGGTGCATGCTACAAAAAGAGGGGAATATGAGCCGAGGAAATAGCTTA
TTTTTCCGGAAGGTCCCTTTGGGAAGACTTATTGTTGTGACCTGAAAATGTTAATTTGAAGATGTGGGCAGGG
ACAGTGACATTTCTGTAGTCCCAGATGCACAGAATTATGGGAGAGAATGTTGATTTCTATACAGTGTGGCGCGCT
TTTTTAATAATCATTTAATCTTGGGAAAATTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2120

MADAASQVLLGSGLTILSQPLMYVKVLIQVGYEPLPPTIGRNIFGRQVCQLPGLFSYAQHIASIDGRRGLFTGLT
PRLCSGVLGTVVHGKVLQHYQESDKGEELGPGNVQKEVSSSFDHVIKETTREMIARSAATLITHPFHVITLRSMV
QFIGRESKYCGLCDSIITIYREEGILGFFAGLVPRLGDILSLWLCNSLAYLVNTYALDSGVSTMNEMKSYSQAV
TGFFASMLTYPFVLVSNLMAVNNCGLAGGCPPYSPIYTSWIDWCMLQKEGNMSRGNLSLFFRKVPFGKTYCCDLK

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FIGURE 2121

AGCTGCGGGCGGCCGAGGTTCCAAAGCGGGTCCGAGCCGCCGCCGCGCGCGCCGCGCACTGCAGCCCCAGGCC
CCGGCCCCCCCCACCCACGTCTGCGTTGCTGCCCGCCTGGGCCAGGCCCCAAAGGCAAGGACAAAGCAGCTGTCAG
GGAACCTCCGCCGAGTCGAATTTACGTGCAGCTGCCGGCAACCACAGGTTCCAAGATGTTTTGCGGGGGCTTCG
CGTGTTCCAAGAACTGCCTGTGCGCCCTCAACCTGCTTTACACCTTGGTTAGTCTGCTGCTAATTGGAATTGCTG
CGTGGGGCATTGGCTTCGGGCTGATTTCCAGTCTCCGAGTGGTCGGCGTGGTCATTGCAGTGGGCATCTTCTTGT
TCCTGATTGCTTTAGTGGGTCTGATTGGAGCTGTAAAACATCATCAGGTGTTGCTATTTTTTATATGATTATTC
TGTTACTTGATTTATTGTTTCAGTTTTCTGTATCTTGCGCTTGTTTAGCCCTGAACCAGGAGCAACAGGGTCAGC
TTCTGGAGGTTGGTTGGAACAATACGGCAAGTGCTCGAAATGACATCCAGAGAAATCTAAACTGCTGTGGGTTCC
GAAGTGTTAACCCAAATGACACCTGTCTGGCTAGCTGTGTTAAAAGTGACCACTCGTGCTCGCCATGTGCTCCAA
TCATAGGAGAATATGCTGGAGAGGTTTTGAGATTTGTTGGTGGCATTGGCCTGTTCTTCAGTTTTACAGAGATCC
TGGGTGTTTGGCTGACCTACAGATACAGGAACCAGAAAGACCCCCGCGCGAATCCTAGTGCATTCTTTTGATGAG
AAAACAAGGAAGATTTCTTTTCGTATTATGATCTTGTTCACTTTCTGTAATTTTCTGTTAAGCTCCATTTGCCAG
TTTAAGGAAGGAAACACTATCTGGAAAAGTACCTTATTGATAGTGGAAATTATATATTTTTACTCTATGTTTCTCT
ACATGTTTTTTTTCTTTCCGTTGCTGAAAAATATTTGAAACTTGTTGGTCTCTGAAGCTCGGTGGCACCTGGAATTT
ACTGTATTCAATTGTCGGGCACTGTCCACTGTGGCCTTTCTTAGCATTTTTACCTGCAGAAAACTTTGTATGGTA
CCACTGTGTTGGTTATATGGTGAATCTGAACGTACATCTCACTGGTATAATTATATGTAGCACTGTGCTGTGTAG
ATAGTTCCTACTGGAAAAAGAGTGGAAATTTATTAATAATCAGAAAGTATGAGATCCTGTTATGTTAAGGGAAATC
CAAATTCCTAATTTTTTTTTTGGTCTTTTTAGGAAAAGATGTGTTGTGGTAAAAAGTGTTAGTATAAAAAATGATAATT
TACTTGTAGTCTTTTATGATTACCAATGTATTCTAGAAATAGTTATGTCTTAGGAAATTGTGGTTTTAATTTTT
GACTTTTACAGGTAAGTGCAAAGGAGAAGTGGTTTTCATGAAATGTTCTAATGTATAATAACATTTACCTTCAGCC
TCCATCAGAATGGAACGAGTTTTGAGTAATCAGGAAGTATATCTATATGATCTTGATATTGTTTTATAATAATTT
GAAGTCTAAAAGACTGCATTTTTTAAACAAGTTAGTATTAATGCGTTGGCCACGTAGCAAAAAGATATTTGATT
TCTTAAAAATTGTTAAATACCGTTTTCATGAAAGTTCTCAGTATTGTAACAGCAACTTGTCAAACCTAAGCATAT
TTGAATATGATCTCCATAATTTGAAATTGAAATCGTATTGTGTGGCTCTGTATATTCTGTAAAAAAATTAAAGG
ACAGAAACCTTTCTTTGTGTATGCATGTTTGAATTAAAAGAAAGTAATGGAAGAATTGATCGATGAAAAAAAAA

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FIGURE 2122

MVCGGFACSKNCLCALNLLYTLVSLLLIGIAAWGIGFGLISSLRVVGVIIVGIFLFLIALVGLIGAVKHHQVLL
FFYMIILLLVFIVQFSVSCACLALNQEQQGQLEVGWNNTASARNDIQRNLNCCGFRSVNPNDTCLASCVKSDHS
CSPCAPIIGEYAGEVLRVGGIGLFFSFTEILGVWLTIRYRNQKDPRANPSAFL

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FIGURE 2123

GGCACGAGGAAAATCAAGATAAAAAATGTTTACAATTAAGCTCCTTCTTTTTATTGTTCTCTAGTTATTTCTCTCC
AGAATTGATCAAGACAATTCATCATTTGATTCTCTATCTCCAGAGCCAAAATCAAGATTTGCTATGTTAGACGAT
GTAAAAATTTTAGCCAATGGCCTCCTTCAGTTGGGACATGGTCTTAAAGACTTTGTCCATAAGACGAAGGGCCAA
ATTAATGACATATTTCAAAAACCTCAACATATTTGATCAGTCTTTTTATGATCTATCGCTGCAAACCAAGTGAAATC
AAAGAAGAAGAAAAGGAACTGAGAAGAACTACATATAAACTACAAGTCAAAAATGAAGAGGTAAAGAATATGTCA
CTTGAACCTCAACTCAAAACTTGAAAGCCTCCTAGAAGAAAAAATTCTACTTCAACAAAAAGTGAAATATTTAGAA
GAGCAACTAACTAACTTAATTCAAAATCAACCTGAAACTCCAGAACACCCAGAAGTAACTTCACTTAAAACTTTT
GTAGAAAAACAAGATAATAGCATCAAAGACCTTCTCCAGACCGTGGAAGACCAATATAACAATTAAACCAACAG
CATAGTCAAAATAAAAGAAATAGAAAATCAGCTCAGAAGGACTAGTATTCAAGAACCCACAGAAATTTCTCTATCT
TCCAAGCCAAGAGCACCAAGAACTACTCCCTTTCTTCAGTTGAATGAAATAAGAAATGTAAACATGATGGCATT
CCTGCTGAATGTACCACCATTTATAACAGAGGTGAACATACAAGTGGCATGTATGCCATCAGACCCAGCAACTCT
CAAGTTTTTTCATGTCTACTGTGATGTTATATCAGGTAGTCCATGGACATTAATTCAACATCGAATAGATGGATCA
CAAACTTCAATGAAACGTGGGAGAACTACAAATATGGTTTTGGGAGGCTTGATGGAGAATTTTGGTTGGGCCTA
GAGAAGATATACTCCATAGTGAAGCAATCTAATTATGTTTTACGAATTGAGTTGGAAGACTGGAAGACAACAAA
CATTATATTGAATATTCTTTTTACTTGGGAAATCACGAAACCAACTATACGCTACATCTAGTTGCGATTACTGGC
AATGTCCCAATGCAATCCCGGAAAACAAAGATTTGGTGTCTTCTACTTGGGATCACAAGCAAAAGGACACTTC
AACTGTCCAGAGGGTTATTCAGGAGGCTGGTGGTGGCATGATGAGTGTGGAGAAAACAACCTAAATGGTAAATAT
AACAAACCAAGAGCAAAATCTAAGCCAGAGAGGAGAAGAGGATTATCTTGGAAGTCTCAAAATGGAAGGTTATAC
TCTATAAAATCAACCAAAATGTTGATCCATCCAACAGATTGAGAAAGCTTTGAATGAACTGAGGCAAAATTTAAAA
GGCAATAATTTAAACATTAACCTCATTCCAAGTTAATGTGGTCTAATAATCTGGTATTAAATCCTTAAGAG

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FIGURE 2124

MFTIKLLLFIVPLVISSRIDQDNSSFDLSPEPKSRFAMLDDVKILANGLLQLGHGLKDFVHKTKGQINDIFQKL
NIFDQSFYDLSLOTSEIKEEEKELRRTTYKLQVKNEEVKNMSLELNSKLESLEEKILLOQKVYLEEQLTNLIQ
NQPETPEHPEVTSKTFVEKQDNSIKDLLQTVEDQYKQLNQHSQIKEIENQLRRTSIQEPTEISLSSKPAPRT
TPFLQLNEIRNVKHDGIPAECTTIYNRGEHTSGMYAIRPSNSQVFHVYCDVISGSPWTLIQHRIDGSQNFNETWE
NYKYGFGRLDGEFWLGLEKIYSIVKQSNYVLRIELEDWKNKHYIEYSFYLGNETNYTLHLVAITGNVPNAIPE
NKDLVFSTWDHKAKGHFNCPEGYSGGWWWHDECGENNLNGKYNKPRAKSKPERRRGLSWKSQNGRLYSIKSTKML
IHPTDSESFE .

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FIGURE 2125

TGGTAGTAAGTTCTATAGAGCAAAAACAAGTTTTAAAGAAGGAGGTTGGGGGGAGGGGGCGATCGCGAAGCTCCGG
GTGGCTTACGAGTACACGGAAGCCGAGGACAAGAGCATCCGGCTCGGCTTGTTTCTCATCATCTCCGGCGTCGTG
TCGCTCTTCATCTTCGGCTTCTGCTGGCTGAGTCCCGCGCTGCAGGATCTGCAAGCCACGGAGGCCAATTGCACG
GTGCTGTCGGTGCAGCAGATCGGCGAGGTGTTTCGAGTGCACCTTCACCTGTGGCGCCGACTGCAGGGGCACCTCG
CAGTACCCCTGCGTCCAGGTCTACGTGAACAACCTCTGAGTCCAACCTCTAGGGCGCTGCTGCACAGCGACGAGCAC
CAGCTCCTGACCAACCCCAAGTGCTCCTATATCCCTCCCTGTAAGAGAGAAAAATCAGAAGAATTTGGAAAGTGTC
ATGAATTGGCAACAGTACTGGAAAGATGAGATTGGTTCCAGCCATTTACTTGCTATTTTAATCAACATCAAAGA
CCAGATGATGTGCTTCTGCATCGCACTCATGATGAGATTGTCTCCTGCATTGCTTCCTCTGGCCCCCTGGTGACA
TTTGTGGTGGGCGTTCTCATTGTGGTCCTGACCATCTGTGCCAAGAGCTTGGCGGTCAAGGCGGAAGCCATGAAG
AAGCGCAAGTTCTCTTAAAGGGGAAGGAGGCTTGTAGAAAGCAAAGTACAGAAGCTGTACTCATCGGCACGCGTC
CACCTGCGGAACCTGTGTTTCCTGGCGCAGGAGATGGACAGGGCCACGACAGGGCTCTGAGAGGCTCATCCCTCA
GTGGCAACAGAAACAGGCACAACCTGGAAGACTTGGAACCTCAAAGCTTGTATTCCATCTGCTGTAGCAATGGCTA
AAGGGTCAAGATCTTAGCTGTATGGAGTAACTATTTTCAAGAAACCCCTATAAGAAGTTCATTTTCTTTCAAAGTA
ACAGTATATTATTTGTACAGTGTAGTATACAAACCATTATGATTTATGCTACTTAAAAATATTAAATAGAGTGG
TCTGTGTTATTTTCTATTTCTTTTTTATGCTTAGAACACCAGGGTTAAAAAAAAAAAAAAGGTGAGGACATCT
GGGTCTCATTGCTTCTGCTAGGTTAACTTTTACTTGACAACAAGGATTCCTGCT

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FIGURE 2126

MAKLRVAYEYTEAEDKSIRLGLFLIISGVVSLFIFGFCWLSPALQDLQATEANCTVLSVQQIGEVFECTFTCGAD
CRGTSQYPCVQVYVNNSESNSRALLHSDEHQLLTNPKCSYIPPCRENQKNLESVMNWQQYWKDEIGSQPFTCYF
NQHQRPDDVLLHRTHDEIVLLHCFLWPLVTFVVGVLIVVLTICAKSLAVKAEAMKKRKFS

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FIGURE 2127

ACTGTCTGCACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGG
GCCTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCGGGCCCCACCCAGGTCCCCTGGTGAAATCAGAAGAG
ACAGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCCTTCTGCACAGAGAAGGGAAAGTTTAAGGAC
ACTTTGCGCCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAATTCTCCATCGGTCCCCATGATGCAAGAC
CTTGACAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGCTCCCAGTGACCCTCTG
GACATCGTCATCACAGGTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCCACGGTTCTGGCAGGAGAG
AGCGTGACCTTGTCCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGAGGCCCATGAA
CGTAGGTTCTCTGCAGGGCCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCCTGCCACCCACGGA
GGAACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACCTCGAGTGACCCACTGCTTGTT
TCTGTACAGGAAACCCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCGAAACCGGTAACCCATACAC
CTGCATGTTCTGATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCCTCTTCTTTCTCCTTCATCGCTGG
TGCTGCAACAAAAAAATGCTGTTGTAATGGACCAAGAGCCTGCAGGGAAACAGAACAGTGAACAGGGAGGACTCT
GATGAACAAGACCCCTCAGGAGGTGACATATGCACAGTTGAATCACTGCGTTTTACACAGAGAAAAATCACTCAC
CCTTCTCAGAGGCCCAAGACACCCCCAACAGATATCATCGTGTACACGGAACCTCCAAATGCTGAGCCCTTGATCC
AAAGTTGTCTCCTGCCCATGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGACAACAGCCCTGTCTCA
AAACTGGGTTGCCAGCTCCAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTGCATCTTAGGGCATCGCTCT
TCCTCACACCACAAATCTGAACGTGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAGA
AAACACACTCCTTTTGCTTAGCCCACAATTCTCCATTTCACTTGACCCCTGCCCACTCTCCAACCTAACTGGCTT
ACTTCCTAGTCTACTTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAAACATACAAGAGGCTCCCTCTTAA
CACGGCACTTAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTCCACCTCCCCTCAGACTAGCTTTCAGCCTTC
TGTCAGCAGTAAAACTTATATATTTTTTAAATAATTTCAATGTAGTTTTCCCTCCTTCAAATAAACATGTCTGC
CCTCAAAAAAA

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FIGURE 2128

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLRAHPGPLVKSEETVILQCWSDVRFEHFLLHREGKFKDTLRLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWPSPTEPSSETGNPIHLHVLIGTSVVIILFILLFFLLHRWCCNKKNAVVMQEPAGNRTVNREDSDEQDPQE
VTYAQLNHCVFTQRKITHPSQRPKTPPTDIIIVYTELPNAEP

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FIGURE 2129

GGGACCGCTATAAGGCCAGTCGGACTGCGACATAGCCCATCCCCTCGACCGCTCGCGTCGCATTGCGCCGCCTCC
CTACCGCTCCAAGCCCAGCCCTCAGCCATGCGCATGCCCCCTGGATCAGGCCATTGGCCTCCTCGTGGCCATCTTC
CACAAGTACTCCGGCAGGGAGGGTGACAAGCACACCCTGAGCAAGAAGGAGCTGAAGGAGCTGATCCAGAAGGAG
CTCACCATTGGCTCGAAGCTGCAGGATGCTGAAATTGCAAGGCTGATGGAAGACTTGGACCGGAACAAGGACCAG
GAGGTGAACTTCCAGGAGTATGTCACCTTCCTGGGGGCCTTGGCTTTGATCTACAATGAAGCCCTCAAGGGCTGA

AAATAAATAGGGAAGATGGAGACACCTCTGGGGGTCCTCTCTGAGTCAAATCCAGTGGTGGGTAATTGTACAATA
AATTTTTTTTTGGTCAAATTT

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FIGURE 2130

MACPLDQAIGLLVAIFHKYSGREGDKHTLSKKELKELIQKELTIGSKLQDAEIARLMEDLDRNKDQEVNFQEYVT
FLGALALIYNEALKG

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FIGURE 2131A

GAGCAGATTCCCTACTGTTCTTAAAGGACAGTAATGCCTTTTGTAGTCTGGTCTGAAGAACATAACAGGTCTGTGAT
CAGAAGTAGGTTGCATCTCTCTCAACTTTAATTTCTTAGCTATACCTGTAGGGATGACTTAAGCCTAGGGGAGC
TCCTATATTTGGGAAGCTTGTGCACAGGGAAGCCTTAAATGATGGTGCCTGCAGATTGGATCTAGTAGAAATTAG
GTCCTTGGGCATGGATGCTTGGGGAACCTCTCAGTGACCTCAGGTGAACTTGTGCTCGTAGAGCCAAGAGGCGA
AGTTAATTCAGGCCTTCCCTTTTGACCACTGCCCCCTCTTCCCTAGGCCTTGGCCCCCTCCACCAGAGGAAGGTGCTG
CCACGTGTCTGCTCCTTCTGAACCTCCAGGTTTCTGCTACGTTGCCCATGAGGACACACCCCCCTCACTCAGC
TGCTCCGACTGTCTCAGCGCCACTTTCCAGCCTCCAGAGCTCTCTCGGCACCGAGAAGTGTCCATCCATCTCCC
AACCAGGACAGTGAGGAGGCTGACAGCATCCCTCGGCCCTACCGTTGTCTCAGCAGTGTGGGCGGGGCTACCGTCAC
CCCGGGAGCCTGGTTAACCATCGTCCGACCCACGAGACTGGCCTTTTCCCTGTACCACCTGTGGCAAGGACTTC
TCCAATCCCATGGCTCTCAAGAGCCATATGAGGACACATGCTCCTGAGGGCCGCCGAGGCACAGGCCCCCAGCG
CCCAAGGAAGCCACTCCACACCTCCAGGGTGAGACGGTGTCCACTGACTCCTGGGGCCAAAGGCTTGGCTCTAGT
GAAGGCTGGGAAAACAGACAAAACATACAGAAGAGACACCTGACTGTGAATCTGTACCTGACCCAGGGCAGCT
TCGGGTACGTGGGAAGATCTGCCCACCAGACAAAGAGAAGGCTTGGCAAGCCACCCAGGTCTGAGGATGGTGCA
GACGGCTGGGGACCCTCCACTAACTCTGCCAGAGCCCCCTCTCTCCCCATCCAGCCAGCAGCCTTCTTAGCAAC
TTGGAACAGTATCTGGCTGAATCAGTAGTGAACCTTACAGGGGGCCAGGAGCCACCCAGTCCCCCTCTGTCTGAG
GAGGAGCGGCGGTACAAATGTAGTCAGTGTGGCAAGACCTACAAGCACGCCGGGAGCCTCACCAACCACCGCCAG
AGCCACACGCTGGGCATCTACCCCTGTGCCATCTGTTTCAAGGAGTTCTCTAACCTCATGGCTCTGAAGAACCAC
TCTCGACTGCATGCCCAGTATCGGCCTTACCCTGTCCCCACTGCCCCCGTGTCTTCCGGCTCCCCCGGGAGCTG
CTGGAACACCAGCAGTCCCATGAGGGTGAAAGGCAGGAGCCACGCTGGGAGGAGAAAGGGATGCCACCACCAAT
GGGCACACAGATGAGAGCAGCCAGGACCAGCTCCCCAGTGCACAGATGCTGAATGGCTCTGCGGAGCTCAGCACC
TCTGGGGAGCTGGAGGACAGTGGCCTGGAGGAATACCGGCCTTTCCGCTGTGGGGACTGTGGCCGTACTTACCGC
CATGCTGGGAGCCTCATCAACCATCGAAAGAGCCACCAGACAGGTGTCTACCCCTGTCTACTCTGTTCTAAGCAG
CTGTTCAATGCGGTGCCCTCAAAAACCATGTGCGGGCTCATCACAGGCCCAGGCAAGGAGTTGGGGAAAATGGG
CAGCCATCAGTCCCACCAGCTCCCCCTGCTGCTGGCTGAGACCACCCACAAAGAGGAAGAGGACCCACCACCACC
CTGGACCATCGGCCCTATAAGTGCAGTGAGTGTGGTCTGCTTACCGCCACCGGGGGAGCCTGGTGAACCATCGC
CACAGCCATCGGACTGGAGAGTACCAGTGCTCACTCTGTCCCCGCAAGTACCCCAATCTCATGGCCCTGCGCAAC
CACGTGCGGGTACATTGCAAGGCTGCTCGCCGAAGTGCAGACATCGGGGCTGAGGGTGGCCCCAGCCACCTCAAG
GTAGAACTCCCGCCTGACCCAGTGGAGGCAGAGGCAGCCCCGCACACAGATCAGGACCATGTGTGCAACATGAA
GAAGAGGCCACGGACATCACCCAGCAGCAGACAAGACAGCAGCACATATCTGTAGCATCTGTGGGCTGCTCTTT
GAAGACGCTGAGAGCCTTGAACGTCTATGGCCTGACTCATGGGGCAGGGGAAAAGGAAAATAGCAGAACAGAGACC
ACAATGTACCTCCTAGGGCCTTTGCTGCGGAGACTGTGGAAAGAGCTATCGCCACTCAGGCAGCCTTATCAAC
CACAGGCAGACCCACCAGACAGGAGACTTCAGTTGTGGGGCCTGTGCCAAGCACTTCCACACCATGGCTGCCATG
AAGAACCCTTGCGCCGGCACAGTCGGCGGGCAGCAGGCGGCATCGGAAGCGGGCTGGCGGTGCCAGCGGTGGG
AGAGAAGCCAACTCCTGGCAGCGGAGAGCTGGACCCGGGAGCTAGAAGACAATGAAGGCCTGGAGTCTCCCCAA
GACCCCTCAGGGGAAAGTCTCATGGGGCTGAAGGCAACCTGGAAAGTGATGGGGACTGTTTGCAGGCTGAATCT
GAAGGGGACAAATGTGGGCTTGAGAGGGATGAGACCCATTTCCAGGGTGATAAAGAGAGCGGAGGCACTGGGGAA
GGACTGGAAAGGAAGGATGCCAGTTTACTTGACAACCTGGACATCCAGGTGAGGAAGGTGGTGGCACTCACTTC
TGCGATAGCCTCACTGGGGTGGATGAAGACCAGAAGCCAGCCACTGGCCAACCCAACTCCTCTTCCCACTCTGCC
AATGCTGTCACTGGCTGGCAGGCTGGGGCCGCTCACACATGCTCTGACTGTGGGCATTCTTTCCCCCATGCCACT
GGCCTGTCTGAGCCACAGGCCCTGCCACCCACCAGGCATCTATCAGTGTCTCCCTCTGCCCGAAGGAGTTTGACTCT
CTGCCTGCCCTCCGCAGCCACTTCCAGAACCATAGGCCTGGGGAGGCGACCTCAGCACAGCCTTTCCTCTGTCTGC
CTCTGTGGCATGATCTTCCCTGGGCGGGCTGGCTACAGGCTTACCGGCGCCAGGCCACAGCTCCTCTGGCATG
ACTGAGGGCTCAGAGGAGGAGGGGGAAGAGGAAGGAGTGGCAGAGGCAGCCCCCTGCACGCAGTCCACCCTGCAG
CTCTCGGAAGCAGAGCTGCTGAATCAGCTGCAGCGGGAGGTGGAAGCGCTGGACAGTGCAGGGTATGGGCACATC
TGTGGCTGTCTGGTTCAGACCTACGATGACCTGGGGAGCCTGGAGCGTCAACACCAAGTCAGAGTTCTGGGACT
ACTGCAGACAAGGCTCCAGCCCCCTTGGGAGTGGCAGGTGATGCCATGGAGATGGTCTGGACAGTGTCTTGGAG
GACATAGTGAATTCTGTCTCTGGAGAGGGTGGAGATGCCAAGTCTCAAGAGGGAGCAGGCACCCCTTGGGAGAC
AGCCTCTGCATCCAGGGTGGGGAAAGTTTGTGGAGGCTCAGCCCCGCCCTTCCGCTGCAACCAGTGTGGCAAG

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FIGURE 2131B

ACCTATCGCCATGGGGGCAGCCTGGTGAACCACCGCAAGATCCACCAGACTGGAGACTTTCTCTGCCCTGTCTGC
TCCCGCTGCTACCCCAACCTGGCTGCCTACCGTAATCATCTGCGGAACCACCCTCGCTGCAAAGGCTCTGAGCCC
CAGGTTGGGCCCATCCCAGAGGCAGCAGGTAGCAGTGAGCTGCAGGTTGGGCCCATCCCAGAAGGAGGCAGCAAC
AAGCCCCAGCACATGGCAGAGGAGGGGCCGGGGCAAGCAGAAGTCGAGAAGCTCCAGGAAGAACTTAAAGTGGAG
CTGGAGGAAGTGGCCAGGGTGAAAGAAGAGGTGTGGGAGGAGACCCTGTGAAGGGGGAGGAGATAGAGCCC
TGGAGACTGCCGAGAAGGGCTGCCAGACTGAAGCCAGCTCTGAGCGGCCCTTCAGCTGCGAGGTGTGTGGC
CTCTACAAGCACGCCGGCAGCCTCATCAACCACCGGCAGAGCCACCAGACCGGCCACTTTGGCTGTAGGGC
TGCTCCAAGGGCTTCTCAAACCTCATGTCCCTCAAGAACCACCGGCGCATCCATGCAGATCCCCGACGTTTCCGC
GCGAGTGTGGGAAGGCCTTCCGCCCTGCGGAAACAGCTGGCCAGCCACCAGCGGGTCCACATGGAACGGCGT
GGTGGGGGACCCGAAAGGCGACTCGGGAAGATCGGCCCTTCCGCTGTGGGCAGTGCGGGCGGACCTATCGC
CGGCAGCCTCCTGAACCACCGGCGCAGCCACGAGACGGGCCAGTACAGCTGCCCCACCTGCCCAAGACC
TCCAACCGCATGGCCCTGAAGGACCACCAGAGGCTGCACTCAGAGAATCGGCGGCGACGGGTGGACGGTCC
AGGCGCACAGCTGTGCGTTGCGCCCTCTGTGGCCGAGCTTCCCTGGCCGGGATCTTTGGAGCGGCACCTGCGG
GAGCATGAGGAGACAGAAAGGGAGCCAGCCAATGGCCAGGGAGGCTGGATGGCACAGCGGCCAGTGAGGCGAAC
CTGACTGGCAGCCAGGGACTAGAGACCCAATTGGGTGGTGCTGAGCCAGTACCCCACTTGGAGGATGGAGTCCCA
AGGCCAGGGGAGCGCAGTCAGAGCCCCATCAGGGCAGCAAGCTCAGAAGCCCCAGAGCCACTGTCTGGGGTGCA
GGGAAGGCAGGTGGGTGGCCGGTAGGTGGGGGACTGGGGAATCATAGTGGAGGCTGGGTTCCTCAGTTCCTAACT
AGGTCAGAGGAGCCAGAGGACAGTGTCCACAGGAGTCTTGCCACGCTGGTGACTGCCAGCTCAATGGACCTACT
CTGAGTCACATGGATAGCTGGGACAACAGAGACAACAGCTCTCAGCTGCAGCCAGGGAGCCACTCCTCTGACAGC
CAGTGTGGCAAGACTTACTGCCAGTCAGGCAGCCTCTGAACCACAACACCAACAAGACAGACCGACACTATTGC
CTGCTCTGCTCCAAGGAGTTCTTAAATCCTGTGGCCACAAAGAGCCACAGCCACAACCACATAGACGCCAGACC
TTTGCTGTCTGACTGTGGCAAAGCCTTTGAGTCCCACCAGGAAGTGGCCAGCCACCTGCAGGCTCATGCCCGG
GGCCACAGCCAGGTGCCAGCCCAGATGGAGGAGGCCAGAGATCCCAAAGCCGGGACTGGGGAGGACCAGGTGGTT
CTCCCTGGTCAAGGGAAAGCCCAGGAGGCCCATCAGAAACCCCCAGAGGCCAGGAGAGAGTGTGGAGAGAGCC
AGGGGAGGACAAGCGGTGACGTCCATGGCGGCTGAGGACAAGGAGCGGCCCTTCCGCTGCACCCAGTGCGGGCGC
TCCTACCGCCATGCTGGCAGCCTGCTGAACCACCAGAAGGCCACACCACAGGGTGTACCCGTGCTCCCTCTGT
CCCAAATCTCTCCCTAACCTGCTGTCTCTTAAGAACCACAGCAGGACCCACACGGACCCCAAGCGCCACTGCTGC
AGCATCTGTGGCAAGGCCTTTTCGGACAGCTGCCCCGGCTGGAGGGCCACGGGCGGGTCCATGCACCCCGGGAGGGG
CCTTTCACCTGCCCCATTGTCCCGCCACTTCCGCCGCCGAATCAGCTTCGTGCAGCACCAGCAGCAGCACCAG
GAGGAGTGGACGGTGGCCGGCTCCGGTAGGGGGCATGAAGGGTCCAGGAGGAGGTGGGCACACAGTGGAGGGGG
AAGTCCAGCCCCAAAGTCGGTGGGGGAGCAAGGAGTGAGAGGAGAGAGCCCCGGGGATTCTAAGAGGTGGGTGGG
GGCTTGGCTATGGGGTGAGAGAAGTAGCTTGAGGATGTGCTGAGCTGAGCACCCGCAAGTCAGGTATAACAAATA
GCAGGGTGGGTGGGCAGCACGTGGGGGCGTGGTCAGGCCGAGGCTGCTACCTGGGCTCCTCCATTACACTGTAG
CCAGAATGGAATGGTCTTTCTGTTACAGGGGAAGGTCACTGGGTACCCCTGGCTGCTGTGTCTGGAAACCTCCT
GAGTCAGCCAGTAAAGTAATGACTTCCAGAGAAAAAGAGGAAGCCATTGGTTTGGTCTAGGTTCCATTCTTTCT
GGAGCAGGCCGGGTGCCAGGGAACAAGGGATGGGGCATGGGCTCCACGGCTTCCCTGCTGACTTGGCCACGGAAA
CTGGTTCACTGGTTGGCACCCCTACTCCCTGTCCCTCTTTCCCTGCGCCTTGTCTCTGCTGCTCCTCTCCTTGGAA
ACTAGACCTCTGGTCCTTCCCTGTGAGTGTGCTCCCATCTCTTCTCTAACCTTTATTACAGCCCTTTTCCCTCT
GCTGCCAACGGCCTTTTTAGGATCCAACCAACCACCTTTCTACCTGCGCACCCCTGCCACCTCTGCACACCTT
TAACTGGAGGACTGAGTCACAGATAATTGTTTCTTGAAGTCCAGGCCAGCTGCAGCAACAACAGTCATTAGCC
CGTGTACATCCCTGATCAGAGGCATCTCCGTGGGGAATCGCTCCACCCAGCACTGCTGGAAGCCGCGGCTGC
CAGGGAGTGGGGCGGCCGGTTCCCTCAGCAGGACCTGGGCTGGCCTCTCCACCTCCCTAGTAGAGGCGGACCCA
TTCCATCTAGTGGCCACCGAGGGTGGGTGGCCCTGAGATGGTGGGCCCTTGACAGGCCTTGTGAGAGCAGAGGGC
AGGTGGGAGTCACCTGAAAGCTGAAGGAATGGCTTTAAGGATAGAAGATTTCTCATGACCTCAAGGGATATGAGG
GAGGAGCCAGTTTGCAGGGCTGGGAAAATAATTAGGAGGCCTAGAATCCCTGTTCTCATCTGGGCCTCCGGGGC
CAGGGGCAGGGGAATGGCTGCAGGGCTGGGAGGGGGTACACGCTGTGCGGGGTCTGCCCTCAGTTGGTGACCT
CCTCTCTCTCTCCCCCAGGAGCCCCAGTGGCACCAGTGACGGGCAGAGGGGACTTGGCATTGCCCCCTCCACCC
ACCCACAGACCCCACTCCTGGATCCTTACCCCAAGTGGCCTGCAGACCTCAGCTTCTCCCTCTGAACCTCAAGT

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FIGURE 2131C

CTCCAAAGATCAGAATCTGGGGGAGGGAGCGCGTGCAGGGAGGGGCTTGATCTCCACATTTTCTCAGGAGTAGTT
CGGGCATCCCCATATCTTCTCCTCTCCCCITGTGAAGAGGACCCAGATCTGGCTTCTTTCCCAAGGAGGGGGTGG
GGTGTTCCCTCGCGTCCCTGTCCTTGAAGGACCTCCTTCCCCAGCCTCATCACCGTGCTCTTCTCAGCGCCACCC
TCAGCAGCCAGATTGCAACACCAGGGAGAGGTGGATGCAGAGCCCCACCGGTGGGAAAAGTTGCCTGTGGAAGGGA
GCCTTTTGCTACAATTGTAACTTATTTTCTAAAGTCTATTTTGTAACAATTTATTTAAGTTTAAAAAAGGAAA
ACTGCTGCCCCCAAAAAAAGAAATTTTC

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FIGURE 2132

MEDTPPSLSCSDCQRHFPSPFELSRHRELLHPSPNQDSEEADSI PRPYRCQQCGRGYRHGSLVNHRRTHETGLF
PCTTCGKDFSNPMALKSHMRTHAPEGRRRRHRPPRPKEATPHLQGETVSTD SWGQRLGSSEGWENQTKHTEETPDC
ESVPDPRAASGTWEDLPTRQREGLASHPGPEDGADGWGPSTNSARAPPLP IPASSLLSNLEQYLAESVVNFTGGQ
EPTQSPPAEEERRYKCSQCGKTYKHAGSLTNHRQSHTLGIYPCAICFKEFSNLMALKNHSRLHAQYRPHYCPHCP
RVFRLPRELLEHQSHHEGERQEPRWEEKGMPTTNGHTDESSQDQLPSAQMLNGSAELSTSGELED SGLEEYRPF
CGDCGRTYRHAGSLINHRKSHQTGVYPCSLCSKQLFNAAALKNHVRAHHRPRQGVGENGQPSVPPAPLLLAETH
KEEDPTTTLDHRPYKCECGRAYRHRGSLVNHRHSHRTGEYQCSLCPRKYPNLMALRNHVRVHCKAARRSADIG
AEGAPSHLKVELPPDPVEAEAAPH TDQDHVCKHEEEATDITPAADKTAAHICSICGLLFEDAESLERHGLTHGAG
EKENSRTETTMSPPRAFACRDCGKSYRHSGLINHRQTHQTGDFSCGACAKHFHTMAAMKNHLRRHSRRRSRRHR
KRAGGASGGREAKLLAAESWTRELEDNEGLESQDP SGESPHGAEGNLESDGDCLQAESEGDCKGLERDETHFQG
DKESGGTGEGLERKDASLLDNLDIPGEEGGGTHFCDSL TGVDQKPATGQPNSSSHSANAVTGWQAGAAHTCSD
CGHSFPHATGLLSHRPCHPPGIYQCSLCPKFDSL PALRSHFQNHPRGEATSAQPFLLCCLCGMIFPGRAGYRLHR
RQAHSSSGMTEGSEEEGEEGVAEAPARSPPLQLSEAELLNQLQREVEALDSAGYGHICGCCGQTYDDLGSLE
HHQSQSSGTTADKAPSP LGVAGDAMEMVVD SVLEDIVNSVSGEGGDAKSQEGAGTPLGDSL CIQGGESLLEAQPR
PFRCNQCGKTYRHGGS LVNHRKIHQ TGDFLCPVCSRCYPNLAAYRNHLRNHPRCKGSEPQVGP IPEAAGSSELQV
GPIPEGGSNKPQHMAEEGPGQAEVEKLOEELKVEPLEEVARVKEEVWEETTVKGEEIEPRLETAEKGCQTEASSE
RPFSCVEVCGRSYKHAGSLINHRQSHQTGHFGCQACSKGFSNLMSLKNHRRIHADPRFRFCSECGKAFRLRKQLAS
HQRVHMERRGGGGTRKATREDRPFRCGQCGRTYRHAGSLLNHRSHETGQYSCPTCPKTYSNRMALKDHQRLHSE
NRRRRAGRSRRTAVRCALCGRSFPGRGSLERHLREHEETEREPANGQGGLDGTAAASEANLTGSQGL ETQLGGAEP
VPHLEDGVPRP GERSQSPIRAASSEAPEPLSWGAGKAGGWVPGGGLGNHSGGWVPQFLTRSEEPEDSVHRSPCHA
GDCQLNGPTLSHMDSWDNDRDNSSQLQPGSHSSCSQCGKTYCQSGSLLNHNTNKTDRHYCLLSKEFLNPVATKSH
SHNHIDAQTFACPD CGKAFESHQELASHLQAHARGHSQVPAQMEEARDPKAGTGEDQVVLPGQGKAQEAPSETPR
GPGESVERARGGQAVTMAAEDKERPFRC TQCGRSYRHAGSLLNHQKAHTTGLYPCSLCPKLLPNLLSLKNHSRT
HTDPKRHCCSICGKAFRTAARLEGHGRVHAPREGPFTCPHCPRHFRRI SFVQHQQQHQEWTVAGSGRGHEGSQ
EEVGTQWRGKSSPKVGGGARSERREPRGF

[illegible]

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FIGURE 2133B

ACTCGGAGCTGCTCTGCTACTTCATCATCATCCTCAACCACATGGTCACGGCCTCCGCCGGCTCCCTGGTGCTGC
CCGTGCTCGTCTTCCTGTGGGCCATGCTGTGATCCCGAGGCCAGCAAGCGCTTCTGGATGACGGCCATCGTCT
TCACCGAGATCGCGGTGGTCGTCAAGTACCTGTTCCAGTTTGGGTTCTTCCCCTGGAACAGCCACGTGGTGCTGC
GGCGCTACGAGAACAGCCCTACTTCCCGCCCCGCATCCTGGGCCTGGAGAAGACTGACGGCTACATCAAGTACG
ACCTGGTGACGCTCATGGCCCTTTTCTTCCACCGCTCCCAGCTGCTGTGCTATGGCCTCTGGGACCATGAGGAGG
ACTCACCATCCAAGGAGCATGACAAGAGCGGCGAGGAGGAGCAGGGAGCCGAGGAGGGGCCAGGGGTGCCTGCGG
CCACCACCGAAGACCACATTCAGGTGGAAGCGAGGGTCGGACCCACGGACGGGACCCCAAGACCCCAAGTGGAGC
TCAGGCCCCGTGATACGAGGCGCATCAGTCTACGTTTTAGAAAGGAAGAAGGAGGGGCCAGCACGGAAAGGAG
CGGCAGCCATCGAAGCTGAGGACAGGGAGGAAGAAGAGGGGGAGGAAGAGAAAGAGGGCCCCACGGGGAGAGAGA
AGAGGCCAAGCCGCTCTGGAGGAAGAGTAAGGGCGGCCGGGCGGCGGCTGCAGGGCTTCTGCCTGTCCCTGGCCC
AGGGCACATATCGGCCGCTACGGCGCTTCTTCCACGACATCCTGCACACCAAGTACCGCGCAGCCACCGACGTCT
ATGCCCTCATGTTCTGGCTGATGTTGTGACCTTCATCATCATATTTTGGCTTCTGGGCCTTTGGGAAGCACT
CGGCGGCCACAGACATCACGTCTCCCTATCAGACGACCAGGTACCCGAGGCTTCTCTGGTATGCTGCTGATCC
AGTTCAGTACCATGGTGGTTGACCGCGCCCTCTACCTGCGCAAGACCGTGCTGGGCAAGCTGGCCTTCCAGGTGG
CGCTGGTGCTGGCCATCCACCTATGGATGTTCTTCATCCTGCCCCGCGTCACTGAGAGGATGTTCAACCAGAAATG
TGGTGGCCCAGCTCTGGTACTTTCGTGAAGTGATCTACTTCGCCCTGTCCGCCTACCAGATCCGCTGCGGCTACC
CCACCCGCATCCTCGGCAACTTCTTCCACCAAGAAGTACAATCATCTCAACCTCTTCTCTTCCAGGGGTTCCGGC
TGGTGCCGTTTCTGGTGGAGCTGCGGGCAGTGATGGACTGGGTGTGGACGGACACCACGCTGTCCCTGTCCAGCT
GGATGTGTGTGGAGGACATCTATGCCAACATCTTCATCATCAAATGCAGCCGAGAGACAGAGAAGAAATACCCGC
AGCCCAAGGGCAGAAGAAGAAGAAGATCGTCAAGTACGGCATGGGTGGCCTCATCATCCTCTTCTCATCGCCA
TCATCTGTTTCCCGCTGCTCTTCATGTGCTGGTGCGCTCCGTGGTTGGGGTTGTCAACCAGCCCATCGATGTCA
CCGTACCCCTCAAGCTGGGCGGCTATGAGCCGCTGTTACCATGAGCGCCAGCAGCCGTCCATCATCCCCTTCA
CGGCCCAGGCCTATGAGGAGCTGTCCCGGCAGTTTGACCCCAAGCCGCTGGCCATGCAGTTCATCAGCCAGTACA
GCCCTGAGGACATCGTCACGGCGCAGATTGAGGGCAGCTCCGGGGCGCTGTGGCGCATCAGTCCCCCAGCCGTG
CCCAGATGAAGCGGGAGCTCTACAACGGCACGGCCGACATCACCTGCGCTTACCTGGAACCTTCCAGAGGGACC
TGGCGAAGGGAGGCACTGTGGAGTATGCCAACGAGAAGCACATGCTGGCCCTGGCCCCCAACAGCACTGCACGGC
GGCAGCTGGCCAGCCTGCTCGAGGGCACCTCGGACCAGTCTGTGGTCATCCCCAATCTCTTCCCCAAGTACATCC
GTGCCCCCAACGGGCCCCGAAGCCAACCCTGTGAAGCAGCTGCAGCCCAATGAGGAGGCCGACTACCTCGGCGTGC
GTATCCAGCTGCGGAGGGAGCAGGGTGCGGGGGCCACCGGCTTCTTCAATGGTGGGTTCATCGAGCTGCAGGAGT
GCCGACCGACTGCAACCTGCTGCCCATGGTCATTTTTCAGTGACAAGGTACAGCCACCGAGCCTCGGCTTCTTGG
CTGGCTACGGCATCATGGGGCTGTACGTGTCCATCGTGCTGGTCATCGGCAAGTTTCGTGCGCGGATTCTTACGCG
AGATCTCGCACTCCATTATGTTTCGAGGAGCTGCCGTGCTGGACCGCATCCTCAAGCTCTGCCAGGACATCTTCC
TGGTGCGGGAGACTCGGGAGCTGGAGCTGGAGGAGGAGTTGTACGCCAAGCTCATCTTCTCTACCGCTACCGG
AGACCATGATCAAGTGGACTCGTGAGAAGGAGTAGGAGCTGCTGCTGGCGCCCGAGAGGGAAGGAGCCGGCCTGC
TGGGCAGCGTGGCCACAAGGGGCGGCACTCCTCAGGCCGGGGAGCCACTGCCCCGTCCAAGGCCGCCAGCTGTG
ATGCATCCTCCCGGCTGCTGAGCCCTGATGCTGCTGTCAGAGAAGGACACTGCGTCCCCACGGCCTGCGTGGC
GCTGCCGTCCCCCACGTGTACTGTAGAGTTTTTTTTTTAATTAAAAATGTTTTATTTATACAAATGG

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FIGURE 2134

MDLRPELPPTTLGPVSLRQLGLEHTRYPCLDLGAMLLYTLTFWLLLRFVKEKLLKWAESPAALTEVTVADTEPTR
TQTLQLSLGELVKGVYAKYWIYVCAGMFIVVSFAGRLVVYKIVYMFLFLLCLTLFQVYYSLWRKLLKAFWWLVVA
YTMLVLI AVYTFQFQDFPAYWRNLTGFTDEQLGDLGLEQFSVSELFSSILVPGFFLLACILQLHYFHRPFMQLT
MEHVS L P G T R L P R W A H R Q D A V S G T P L L R E E Q Q E H Q Q Q Q E E E E E E D S R D E G L G V A T P H Q A T Q V P E G A A K W G L V A E
R L L E L A A G F S D V L S R V Q V F L R R L L E L H V F K L V A L Y T V W V A L K E V S V M N L L L V V L W A F A L P Y P R F R P M A S C L S T V W
T C V I I V C K M L Y Q L K V V N P Q E Y S S N C T E P F P N S T N L L P T E I S Q S L L Y R G P V D P A N W F G V R K G F P N L G Y I Q N H L Q V L
L L L V F E A I V Y R R Q E H Y R R Q H Q L A P L P A Q A V F A S G T R Q Q L D Q D L L G C L K Y F I N F F F Y K F G L E I C F L M A V N V I G Q R M
N F L V T L H G C W L V A I L T R R H R Q A I A R L W P N Y C L F L A L F L L Y Q Y L L C L G M P P A L C I D Y P W R W S R A V P M N S A L I K W L Y
L P D F F R A P N S T N L I S D F L L L C A S Q Q W Q V F S A E R T E E W Q R M A G V N T D R L E P L R G E P N P V P N F I H C R S Y L D M L K V A
V F R Y L F W L V L V V V F T G A T R I S I F G L G Y L L A C F Y L L L F G T A L L Q R D T R A R L V L W D C L I L Y N V T V I I S K N M L S L L A
C V F V E Q M Q T G F C W V I Q L F S L V C T V K G Y D P K E M M D R D Q D C L L P V E E A G I I W D S V C F F F L L Q R R V F L S H Y Y L H V R
A D I Q A T A L L A S R G F A L Y N A A N L K S I D F H R R I E E K S L A Q L K R Q M E R I R A K Q E K H R Q G R V D R S R P Q D T L G P K D P G L E
P G P D S P G G S S P P R R Q W W R P W L D H A T V I H S G D Y F L F E S D S E E E E E A V P E D P R P S A Q S A F Q L A Y Q A W V T N A Q A V L R R
R Q Q E Q E Q A R Q E Q A G Q L P T G G G P S Q E V E P A E G P E E A A G R S H V V Q R V L S T A Q F L W M L G Q A L V D E L T R W L Q E F T R H H
G T M S D V L R A E R Y L L T Q E L L Q G G E V H R G V L D Q L Y T S Q A E A T L P G P T E A P N A P S T V S S G L G A E E P L S S M T D D M G S P L
S T G Y H T R S G S E E A V T D P G E R E A G A S L Y Q G L M R T A S E L L L D R R L R I P E L E E A E L F A E G Q G R A L R L L R A V Y Q C V A A H
S E L L C Y F I I I L N H M V T A S A G S L V L P V L V F L W A M L S I P R P S K R F W M T A I V F T E I A V V V K Y L F Q F G F F P W N S H V V L R
R Y E N K P Y F P P R I L G L E K T D G Y I K Y D L V Q L M A L F F H R S Q L L C Y G L W D H E E D S P S K E H D K S G E E E Q G A E E G P G V P A A
T T E D H I Q V E A R V G P T D G T P E P Q V E L R P R D T R R I S L R F R R R K K E G P A R K G A A A I E A E D R E E E E G E E E K E A P T G R E K
R P S R S G G R V R A A G R R L Q G F C L S L A Q G T Y R P L R R F F H D I L H T K Y R A A T D V Y A L M F L A D V V D F I I I I F G F W A F G K H S
A A T D I T S S L S D D Q V P E A F L V M L L I Q F S T M V V D R A L Y L R K T V L G K L A F Q V A L V L A I H L W M F F I L P A V T E R M F N Q N V
V A Q L W Y F V K C I Y F A L S A Y Q I R C G Y P T R I L G N F L T K K Y N H L N L F L F Q G F R L V P F L V E L R A V M D W V W T D T T L S L S S W
M C V E D I Y A N I F I I K C S R E T E K Y P Q P K G Q K K K I V K Y G M G G L I I L F L I A I I W F P L L F M S L V R S V V G V V N Q P I D V T
V T L K L G G Y E P L F T M S A Q Q P S I I P F T A Q A Y E E L S R Q F D P Q P L A M Q F I S Q Y S P E D I V T A Q I E G S S G A L W R I S P P S R A
Q M K R E L Y N G T A D I T L R F T W N F Q R D L A K G G T V E Y A N E K H M L A L A P N S T A R R Q L A S L L E G T S D Q S V V I P N L F P K Y I R
A P N G P E A N P V K Q L Q P N E E A D Y L G V R I Q L R R E Q G A G A T G F L E W W V I E L Q E C R T D C N L L P M V I F S D K V S P P S L G F L A
G Y G I M G L Y V S I V L V I G K F V R G F F S E I S H S I M F E E L P C V D R I L K L C Q D I F L

GUCGAGCTAAGCCGGAGGATGTGTACAGTCTGCGGCGGGCGGGCGGGGCTACGAAGAGGACAGGGGACAGGCGCCGTGCG
AACCAGAGCCAGCCAGCCGAGGACGCGGGCAGGGCGGGACGGGAGCCCGGACTCGTCTGCCGCCGCCGTCTGTCG
CCGTCTGTCCGGCCCCCGCTCCCCGCGCGGAGCGGGAGGAGCCGCCACCTCGCGCCCCGAGCCGCCCTAGC
GCGCGCCGGGCATGGTCCCCCTCTTAAAGGCGCAGGCCGCGGCGGGGGGCGGGCGTGCAGAAACAAAGCGCCGGC
GGGGCTGCGGGCGGCTCGGGGGCCGCGATGGGCGCGGGCGGGCCCCGCGGCGGCGGCGGCGCTGCCCGGGCCGG
TCGCGGCGCTAGGGCGGGCTGGCCTCCGCGGGCGGGGCGAGCGGGCGCGGGCATGGCCGCGCGCGGCCGCGCGCTGGCTCA
GCGTGTCTGCTCGGGCTCGTCTCTGGGCTTCGTGCTGGCCTCGCGGCTCGTCTCTGCCCGGGCTTCCGAGCTGAAGC
CGGGGGCCACGGCGCCGCGCCAGCCCCGAGGGCTGCCGGTCCGGGCAGGCGGCGGCTTCCAGGCCGGCGGGG
CGCGGCGATGCGCGCGGGGGCGCAGCTCTGGCCGCCCGGCTCGGACCCAGATGGCGGCCCGCGCGACAGGAAC
CTCTTCTCGTGGGAGTCATGACCGCCAGAAATACCTGCAGACTCGGGCCGTGGCCGCTACAGAACATGGTCCA
CAATTCCTGGGAAAGTTTCTTCTCAAGTGAGGGTTCTGACACATCTGTACCAATTCAGTAGTGCCAC
GCGGGGTGTGGACGACTCCTACCCGCCCCAGAAGAAGTCCTTCATGATGCTCAAGTACATGCACGACCACTACT
TGACAAGTATGAATGGTTTATGAGAGCAGATGATGACGTGTACATCAAAGGAGACCGTCTGGGAACTTCTCTGA
GGAGTTTGAACAGCAGCGAGCCCCCTCTTCTTGGGCGACAGGCCCTGGGCACCACGGAAGAAATGGGAAAACCTGG
CCCTGGAGCCTGGTGAGAACTTCTGCATGGGGGGGCTGGCGTGATCATGAGCCGGGAGGTGCTTCGGAGAATGG
TGCCCGACATTGGCAAGTGTCTCCGGGAGATGTACACCACCCATGAGGACGTGGAGGTGGGAAGGTGTGTCCGA
GGTTTGCAGGGGTGCAGTGTGTCTGGTCTTATGAGATGCAGCAGCTTTTTTATGAGAATTACGAGCAGAACAAAA
AGGGGTACATTAGAGATCTCCATAACAGTAAATTCACCAAGCTATCACATTACCCCCAACAAAAACCCACCCT
ACCAGTACAGGCTCCACAGCTACATGCTGAGCCGCAAGATATCCGAGCTCCGCCATCGCACAAATACAGCTGCACC
GCGAAATTGTCTGATGAGCAAAATACAGCAACACAGAAATTCATAAAGAGGACCTCCAGCTGGGAATCCCTCCCT
CCTTCATGAGGTTTCAGCCCCGCCAGCGAGAGGAGATTCTGGAATGGGAGTTTCTGACTGGAAAATACTTGTATT
CGGCAGTTGACGGCCAGCCCCCTCGAAGAGGAATGGACTCCGCCAGAGGGAAGCCTTGGACGACATTGTCTATGC
AGGTTCATGGAGATGATCAATGCCAACGCCAAGACCAGAGGGCGCATCATTGACTTCAAAGAGATCCAGTACGGCT
ACCGCCGGGTGAACCCCATGTATGGGGCTGAGTACATCCTGGACCTGCTGCTTCTGTACAAAAGCACAAAGGGA
AGAAAATGACGGTCCCTGTGAGGAGGCACGCGTATTTACAGCAGACTTTCAGCAAAATCCAGTTTGTGGAGCATG
AGGAGCTGGATGCACAAGAGTTGGCCAAGAGAATCAATCAGGAATCTGGATCCTTGTCTTTCTCTCAAACCTCC
TGAAGAAGCTCGTCCCCCTTCAGCTCCCTGGGTGCAAGAGTGAGCACAAAGAACCCAAAGATAAAAAGATAAAACA
TACTGATTCTTTGTCTGGGCGTTTCGACATGTTTGTGAGATTTATGGGAACTTTGAGAAGACGTGTCTTATCC
CCAATCAGAACGTCAAGCTCGTGGTTCGTCTTTCAATTCTGACTCCAACCCTGACAAGGCCAAACAAGTTGAAC
TGATGACAGATTACCGCATTAAGTACCCTAAAGCCGACATGCAGATTTTGCCTGTGTCTGGAGAGTTTTCAAGAG
CCCTGGCCCTGGAAGTAGGATCCTCCAGTTTAAACAATGAATCTTTGCTCTTCTTCTGCGACGTGACCTCGTCT
TTACTACAGAATTCCTTCAGCGATGTGAGCAAAATACAGTTCTGGGCCAACAAATATATTTTCCAATCATCTTCA
GCCAGTATGACCCAAAGATTGTTTATAGTGGGAAAGTTCCAGTGACAACCATTTTGCCTTTACTCAGAAAACCTG
GCTTCTGGAGAACTATGGGTTTGGCATCAGTGTATTTATAAGGGAGATCTTGTCCGAGTGGGTGGCTTTGATG
TTCCATCCAAGGCTGGGGGCTGGAGGATGTGGACCTTTTCAACAAGGTTGTCCAGGCAGGTTTGAAGACGTTTA
GGAGCCAGGAAGTAGGAGTAGTCCACGTCCACCATCCTGTCTTTTGTGATCCCAATCTTGACCCCAACAGTACA
AAATGTGCTTGGGGTCAAAGCATCGACCTATGGGTCCACACAGCAGCTGGCTGAGATGTGGCTGGAAAAAATG
ATCCAAGTTACAGTAAAAGCAGCAATAATAATGGCTCAGTGAGGACAGCCTAATGTCCAGCTTTGCTGGAAAAGA
CGTTTTTAATTATCTAATTTATTTTTCAAAAATTTTTTGTATGATCAGTTTTTGAAGTCCGTATACAAGGATATA
TTTTACAAGTGGTTTTCTTACATAGGACTCCTTTAAGATTGAGCTTTCTGAACAAGAAGGTGATCAGTGTGTGCC
TTTGAACACATCTTCTGTGAACATTATGTAGCAGACCTGCTTAACTTTGACTTGAATGTACCTGATGAACAA
AACTTTTTTAAAAAATGTTTTCTTTTGAGACCCTTTGCTCCAGTCTTATGGCAGAAAACGTGAACATTCTTGCA
AAGTATTATTGTAACAAAACACTGTAACCTCTGGTAAATGTTCTGTTGTGATTGTTAACATTCCACAGATTCTACC
TTTTGTGTTTTGTTTTTTTTTTTTTACAATTGTTTTAAAGCCATTTTCATGTTCCAGTTGTAAGATAAGGAAATGT
GATAATAGCTGTTTCATCATTGTCTTCAGGAGAGCTTTCCAGAGTTGATCATTTCCTTCATGGTACTCTGTCTCA
GCATGGCCACGTAGGTTTTTTGTTTGTGTTTTGTTTCTTTTTTTGAGACGGAGTCTCACTCTGTTACCCAGGC
TGGAAATGCAGTGGCGCAATCTTGGCTCACTTTAACCTCCACTTCCCTGGTTCAAGCAATTCCCTGCCTTTGCCT

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FIGURE 2135B

CCCGAGTAGCTGGGATTACAGGCACACACCACCACGCCAGCTAGTTTTTTTGTATTTTTAGTAGAGACGGGGTT
TCACCATGCAAGCCCAGCTGGCCACGTAGGTTTTAAAGCAAGGGGCGTGAAGAAGGCACAGTGAGGTATGTGGCT
GTTCTCGTGGTAGTTCATTTCGGCCTAAATAGACCTGGCATTAAATTTCAAGAAGGATTGGCATTCTCTCTCTT
GACCCTTCTCTTTAAAGGGTAAATATTAATGTTTGAATGACAAAGATGAATTATTACAATAAATCTGATGTAC
ACAGACTGAAACACACACACATACACCCTAATCAAAACGTTGGGGAAAAATGTATTTGGTTTTGTTTCCTTTCATC
CTGTCTGTGTTATGTGGGTGGAGATGGTTTTTATTCTTTTATTACTGTTTTGTTTTATCCTTTGTATCTGAAATA
CCTTTAATTTATTTAATATCTGTTGTTTTCAGAGCTCTGCCATTTCTTGAGTACCTGTTAGTTAGTATTATTTATGT
GTATCGGGAGTGTGTTTAGTCTGTTTTATTTGCAGTAAACCGATCTCCAAAGATTTCTTTTGGAAACGCTTTTT
CCCCTCCTTAATTTTTATATTCCTTACTGTTTTACTAAATATTAAGTGTCTTTGACAATTTTGGTGCTCATGTG
TTTTGGGGACAAAAGTGAAATGAATCTGTCTATTATACCAGAAAGTTAAATTCAGATCAAATGTGCCTTAATAA
ATTTGTTTTCAATTTAGATTTCAAACAGTGATAGACTTGCCATTTAATACACGTCATTGGAGGGCTGCGTATTTG
TAAATAGCCTGATGCTCATTTGGAAAAATAAACAGTGAACAATATTTTCTATTGTACTTTTCAGAACCATTTT
GTCTCATTATTCCTGTTTTAGCTGAAGAATTGTATTACATTTGGAGAGTAAAAAACTTAAACACG

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FIGURE 2136

MAARGRAWLSVLLGLVLGFVLASRLVLPRASELKRAGPRRRASPEGCRSGQAAASQAGGARGDARGAQLWPPGS
DPDGGPRDRNFLFVGVMATAKYLOTRAVAAAYRTWSKTIPGKVQFFSSEGS DTSVP IPVVPLRGVDDSYPPQKKSF
MMLKYMHDHYLDKYEFMRADDDVYIKGDRLNENFLRSLNSSEPLFLGQTGLGTTEEMGKLALPGENFCMGGPGV
IMSREVLRRMVPHIGHKCLREMYTTTHEDVEVGRCVRRFAGVQCVWSYEMQQLFYENYEQNKKGYIRDLHNSKIHOA
ITLHPNKNPPYQYRLHSYMLSRKISELRHRTIQLHREIVLMSKYSNTEIHKEDLQLGIPPSFMRFPQPRQREEILE
WEFLTGKYLYSAVDGQPPRRGMDSAQREALDDIVMQVMEMINANAKTRGRIIDFKEIQYGYRRVNP MYGAEYILD
LLLLYKKHKGKKMTVPVRRHAYLQQTFSKIQFVEHEELDAQELAKRINQESGSLSFSLNSLKKLVFPQLPGSKSE
HKEPKDKKINILIPLSGRFDMFVRFMGNFEKTCLIPNQNVKLVLLFNSDSNPDKAKQVELMTDYRIKYPKADMQ
ILPVSGEFSRALALEVGSSQFNNESSLFFCDVDLVFTTEFLQRCRANTVLGQQIYFPIIFSQYDPKIVYSGKVPS
DNHFAFTQKTGFWRNYGFGITCIYKGD LVRVGGFDVSIQGWGLEDDVDFNKVVQAGLKTFRSQEVGVVHVHHPVF
CDPNLDPKQYKMCLGSKASTYGSTQQLAEMWLEKNDPSYKSSNNNGSVRTA

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FIGURE 2137

ACAGGAGGAGACAGCCTCCCGGCCCGGGGAGGACAAGTCGCTGCCACCTTTGGCTGCCGACGTGATTCCCTGGGA
CGGTCCGTTTCCTGCCGTCAACTGCCGGCCGAGTTGGGTCTCCGTGGTTCAGGCCGGCTCCCCCTTCCTGGTCTC
CCTTCTCCCGCTGGGCCGTTTTATCGGGAGGAGATTGTCTTCCAGGGCTAGCAATTGGACTTTTGATGATGTTG
ACCCAGCGGCAGGAATAGCAGGCAACGTGATTTCAAAGCTGGGCTCAGCTCATGTTTCTTCTCTCGTGAATCGC
AAAACCCATTTTGGAGCAGGAATTCCAATCATGTCTGTGATGGTGGTGAGAAAGAAGGTGACACGGAAATGGGAG
AAACTCCCAGGCAGGAACACCTTTTGCTGTGATGGCCGCGTCATGATGGCCCGGCAAAAGGGCATTTCCTACCTG
ACCCTTTTCCTCATCCTGGGGACATGTACACTCTTCTTCGCCCTTGAGTGCCGCTACCTGGCTGTTGAGGACCAGCTTCAGTGAC
CCTGCCATCCCTGTATTTGCTGCCATGCTCTTCCCTTCTCCATGGCTACACTGTTGAGGACCAGCTTCAGTGAC
CCTGGAGTGATTCTCGGGCGCTACCAGATGAAGCAGCTTTCATAGAAATGGAGATAGAAGCTACCAATGGTGCG
GTGCCGGGCTACCAGCGACCACCGCCTCGTATCAAGAATTTCCAGATAAACAACCAGATTGTGAAACTGAAATAC
TGTTACACATGCAAGATCTTCCGGCCTCCCCGGGCCTCCCATTCAGCATCTGTGACAACCTGTGTGGAGCGCTTC
GACCATCACTGCCCCTGGGTGGGGAATTGTGTTGGAAAGAGGAACCTACCGCTACTTCTACCTCTTCATCCTTTCT
CTCTCCCTCCTCACAATCTATGTCTTCGCCCTTCAACATCGTCTATGTGGCCCTCAAATCTTTGAAAATTGGCTTC
TTGGAGACATTGAAAGAACTCCTGGAACCTGTTCTAGAAGTCCTCATTGCTTCTTTACACTCTGGTCCGTCGTG
GGACTGACTGGATTTTCACTTTTCTCGTGGCTCTCAACCAGACAACCAATGAAGACATCAAAGGATCATGGACA
GGGAAGAATCGCGTCCAGAATCCCTACAGCCATGGCAATATTGTGAAGAACTGCTGTGAAGTGCTGTGTGGCCCC
TTGCCCCCAGTGTGCTGGATCGAAGGGGTATTTTGCCACTGGAGGAAAGTGGAAGTCGACCTCCAGTACTCAA
GAGACCAGTAGCAGCCTCTTGCCACAGAGCCAGCCCCACAGAACACCTGAACTCAAATGAGATGCCGGAGGAC
AGCAGCACTCCCGAAGAGATGCCACCTCCAGAGCCCCAGAGCCACCACAGGAGGCAGCTGAAGCTGAGAAGTAG

CCTATCTATGGAAGAGACTTTTGTGTTGTTTAATTAGGGCTATGAGAGATTTGAGGTGAGAAGTTAAACCTGAG
ACAGAGAGCAAGTAAGCTGTCCCTTTTAAATTGTTTTCTTTGGTCTTTAGTCACCCAGTTGCACACTGGGCATTT
TCTTGGCTGGCAAGCTTTTTTTTAAAATTGCTGAACTTCAAGGGCAGTGGCCAGGAAGGATGTTGAGTTACCT
CTGGATAAACTGGGAAAAATGGGGTCTCTTGGGGCCGGGCACCTGGTTT

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FIGURE 2138

MFLLS CNRKTHFGAGIPIM SVMVVRKKVTRKWEKLPGRNTFCCDGRVMMARQKGIFYLTFLILGTCTLFFAFEC
RYLAVQLSPAIPVFAAMLFLFSMATLLRTSFSDPGVIPRALPDEAAFIEMEIEATNGAVPGYQRPPPRIKNFQIN
NQIVKLKYCYTCKIFRPPRASHCSICDNCVERFDHHC PWVGN CVGKRNYRYFYLFILSLSLTIYVFAFNIVYVA
LKSLKIGFLET LKETPGTVLEV LICFFTLWSVVGLTG FHTFLVALNQTTNEDIKGSWTGKNRVQNPYSHGNIVKN
CCEVLCGPLPPSVLDRRGILPLEESGSRPPSTQETSSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPEPPEPPQ
EAAEAEK

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FIGURE 2139

CTTTGTTTTGCTTCGAGATGGCTGCGGGGATGTATTTGGAACATTATCTGGACAGTATTGAAAACCTTCCCTTTG
AATTACAGAGAACTTTCAGCTCATGAGGGACCTAGACCAAAGAACAGAGGACCTGAAGGCTGAAATTGACAAGT
TGGCCACTGAGTATATGAGTAGTGCCCGCAGCCTGAGCTCCGAGGAAAAATTGGCCCTTCTCAAACAGATCCAGG
AAGCCTATGGCAAGTGCAAGGAATTTGGTGACGACAAGGTGCAGCTTGCCATGCAGACCTATGAGATGGTGGACA
AACACATTCGGCGGGCTGGACACAGACCTGGCCCGTTTTGAGGCTGATCTCAAGGAGAAAACAGATTGAGTCAAGTG
ACTATGACAGCTCTTCCAGCAAAGGCAAAAAGAAAGGCCGACTCAAAAGGAGAAGAAAAGCTGCTCGTGCTCGTT
CCAAAGGGAAAACTCGGATGAAGAAGCCCCAAGACTGCCAGAAGAAGTTAAAGCTCGTGCGACAAGTCCTG
AGTATGGGATGCCCTCAGTGACCTTTGGCAGTGTCCACCCCTCTGATGTGTTGGATATGCCTGTGGATCCCAACG
AACCCACCTATTGCCTTTGTCACCAGGTCTCCTATGGAGAGATGATTGGCTGTGACAACCCTGATTGTTCCATTG
AGTGTTTCCATTTTGCTGTGTGGGGCTGACAACCAAGCCTCGGGGGAAATGGTTTTGCCACGCTGCTCCCAAG
AACGGAAGAAGAAATAGATAAGGGCCTTGGAATCCAACACAGTTTCTTCCACATCCCCTGACTTGGGCTAGTGGG
CAGAGGAATGCCTGTGCTGGGGCCAGGGGTTCAAGGAGGAGTGGATGGCACAGTGCTGTTCATCCCTTCTCCTCCC
CTCTCCCCACTCCCGGTGCTGAGGCTGCATCAGACCCTGGTAGGGAGGGGTGCCGCAGCCACTAACGGTATGTGC
TCTCCTTCAGCCCTCTCCTTCGGAGGGACGTGGTCTTGCCCACTGTCTTTTGCCTCCATGCTGAGGTGCGTGCT
GTATTTCAAGGGAGGGTCCTTTTCAATTCTCCTTGCTTTGTATTTAAGGACTGGGGCATAGCATGGGGCAGTCC
CCCAGACCTCTTCATTCCCCCTCCTGTGGTGAGGGCTAGGTGTGATCAACACTTTTCTTCTCCATTCCCTTCCTG
CTTTTTTCATGGTGGGGATCCACCAGGTCATCTAGCTCTGGCCCTAGTTGAAGGGCACCCCTTCCTCTGTGCCAA
GAGGATTCATCCTGGGAGAGGGGGCAAGGTGGAATGCAGATAACTCACATGTAAAAGGAACCTGGGTAGGTAAAT
AAAAGCTATACATGTTGAAAAA

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FIGURE 2140

MAAGMYLEHYLDSIENLPFELQRNFQLMRDL DQRTEDLKAEIDKLATEYMSSARSL SSEEKLALLKQIQEAYGKC
KEFGDDKVQLAMQTYEMVDKHIRRLDTDLARFEADLKEKQIESDYDSSSSKGKKKGRTQKEKKAARARSKGKNS
DEEAPKTAQKKLKLVRTSPEYGMPSVTFGSVHPSDVL DMPVDPNEPTYCLCHQVSYGEMIGCDNPDCSIEWFHFA
CVGLTTKPRGKWFCPRCSQERKKK

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FIGURE 2141

TGCAGTCTGTCTGAGGGCGGCCGAAGTGGCTGGCTCATTTAAGATGAGGCTTCTGCTGCTTCTCCTAGTGGCGGC
GTCTGCGATGGTCCGGAGCGAGGCCCTCGGCCAATCTGGGCGGCGTGCCAGCAAGAGATTAAAGATGCAGTACGCC
ACGGGGCCGCTGCTCAAGTTCCAGATTTGTGTTTCTGAGGTTATAGGCGGGTGTTTGAGGAGTACATGCGGGTT
ATTAGCCAGCGGTACCCAGACATCCGCATTGAAGGAGAGAATTACCTCCCTCAACCAATATATAGACACATAGCA
TCTTTCCTGTCTAGTCTTCAAACCTAGTATTAATAGGCTTAATAATTGTTGGCAAGGATCCTTTTGCTTCTTTGGC
ATGCAAGCTCCTAGCATCTGGCAGTGGGGCCAAGAAAATAAGGTTTATGCATGTATGATGGTTTTCTTCTTGAGC
AACATGATTGAGAACCAGTGTATGTCAACAGGTGCATTTGAGATAACTTTAAATGATGTACCTGTGTGGTCTAAG
CTGGAATCTGGTCACCTTCCATCCATGCAACAACCTTGTTCAAATTCTTGACAATGAAATGAAGCTCAATGTGCAT
ATGGATTCAATCCCACACCATCGATCATAGCACCACCTATCAGCACTGAAAACCTCTTTTGCAATTAAGGGATCATT
GCAAGAGCAGCGTGACTGACATTATGAAGGCCTGTACTGAAGACAGCAAGCTGTAGTACAGACCAGATGCTTTC
TTGGCAGGCTCGTTGTACCTCTTGGAACCTCAATGCAAGATAGTGTTCAGTGCTGGCATATTTTGGAATTCT
GCACATTCATGGAGTGCAATAATACTGTATAGCTTTCCCCACCTCCCACAAAATCACCCAGTTAATGTGTGTGT
GTGTGTTTTTTTTAAGGTAAACATTACTACTTGTAACTTTTTTTCTTTAGTCATATTTGGAAAAAGTAGAAAATT
GGAGTTACATTTGGATTTTTTTTCCAA

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FIGURE 2142

MQYATGPLLKFQICVSXGYRRVFEEYMRVISQRYPDRIEGENYLPQPIYRHIASFLSVFKLVLIIGLIIVGKDPF
AFFGMQAPSIWQWGQENKVYACMMVFFLSNMIENQCMSTGAFEITLNDVPVWSKLESGHLPSMQQLVQILDNEMK
LNVHMDSIPHRS

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FIGURE 2143

CGGCCTTGTCAGCTCACAGCAGGCGTTAACAGCCTCTAATTGAGGAACTGTGGCTGGACAGGTTGCAAGGCAGT
TCTGCTCCCCATCGTCCTCTTGCTGACTGGGGACTGCTGAGCCCGTGCACGGCAGAGAGTCTGGTGGGGTGGAGG
GGCTGGCCTGGCCCCTCTGTCTGTGGAAATGCTGGGGCAAGTGGTCACCCTCATACTCCTCTGCTCCTCAAGG
TGTATCAGGGCAAAGGATGCCAGGGATCAGCTGACCATGTGGTTAGCATCTCGGGAGTGCCTCTTCAGTTACAAC
CAAACAGCATAACAGACGAAGGTTGACAGCATTGCATGGAAGAAGTTGCTGCCCTCACAAAATGGATTTTCATCACA
TATTGAAGTGGGAGAATGGCTCTTTGCCTTCCAATACTTCCAATGATAGATTTCAGTTTTATAGTCAAGAACTTGA
GTCTTCTCATCAAGGCAGCTCAGCAGCAGGACAGTGGCCTCTACTGCCTGGAGGTACCAGTATATCTGGAAAAG
TTCAGACAGCCACGTTCCAGGTTTTTGTATTTGATAAAGTTGAGAAACCCCGCCTACAGGGGCAGGGGAAGATCC
TGGACAGAGGGAGATGCCAAGTGGCTCTGTCTTGCTTGGTCTCCAGGGATGGCAATGTGTCTATGCTTGGTACA
GAGGGAGCAAGCTGATCCAGACAGCAGGGAACCTCACCTACCTGGACGAGGAGGTTGACATTAATGGCACTCACA
CATATACCTGCAATGTCAGCAATCCTGTTAGCTGGGAAAGCCACACCCTGAATCTCACTCAGGACTGTCAGAATG
CCCATCAGGAATTCAGATTTTGGCCGTTTTTGGTGTATCATCGTGATTCTAAGCGCACTGTTCTTGGCACCCCTTG
CCTGCTTCTGTGTGTGGAGGAGAAAGAGGAAGGAGAAGCAGTCAGAGACCAGTCCCAAGGAATTTTGTACAATTT
ACGAAGATGTCAAGGATCTGAAAACAGGAGAAATCACGAGCAGGAGCAGACTTTTCTGGAGGGGGGAGCACCA
TCTACTCTATGATCCAGTCCCAGTCTTCTGTCTCCACGTCAACAAGAACCTGCATATACATTATATTCATTAATTC
AGCCTTCCAGGAAGTCTGGATCCAGGAAGAGGAACACAGCCCTTCTTCAATAGCACTATCTATGAAGTGATTG
GAAAGAGTCAACCTAAAGCCCAGAACCCTGCTCGATTGAGCCGCAAAGAGCTGGAGAACTTTGATGTTTATTCTT
AGTTGCTGCAGCAATTCTCACCTTTCTTGACATCAGCATCTGCTTTGGGAATTGGCACAGTGGATGACGGCACA
GGAGTCTCTATAGAACACTTCCTAGTCTGGAGAGGATATGGAAATTTGTTCTTGTCTATATTTGTTTTGAAAA
TGATGTCTAACAACCATGATAAGAGCAAGGCTGTTAAATAATATCTTCCAATTTACAGATCAGACATGAATGGGT
GGAGGGGTTAGGTTGTTACAAAAGGCCACATTCCAAGTATTTGTAATCTAGAAAGTGTTATGTAAGTGATGTTA
TTAGCATCGAGATTCCCTCCACCTGATTTTCAAGCTGTCACTTGTTTCTTCTTCTCCCTCTCTGGGTTGACTGC
ATTTCTAGACTCTCGCCGGCCAGGCCCATCTTCCAAAGCAAGAGGAAGGAATGATAATGGTGACTCAGGGGAAG
AAGAAACAGCCCTCCTCTGAAAGCCTGGACTGTCCGGCTGTGAACTGGCTGGCAGGTTCTGCACGTGGGTGGGG
CCAGGGCCTGGGCTTTACTCAATTGCAGAGAAAAAACTTTCTCCCTGCATCTCATACCTTTACCTCTGGCCAGTT
GGCCACCAGGGGAGTGGGCTGAAGGGAGAGTAGATGGTGCAAAGCAAGCCCATCTCTGAGTAGAAAAATCACCC
AGAGCACATGCTGACCTGATAACTGGGGTGTGAGACCAGCTTTGTCCATGGTATGATGTTTGATTTATGAAGAC
GCATTGTTAGAAATCCATTTGGCTTCTTCATAGAAGTGGCTTCCCAGAGGAAGAGGCCTCTCAGAAACCATGTTT
TATTTAAGTTCTGAGTCTGATGAGTGTTCCTCAGGATGCACATTGAAGGGAGGGCTCAGGCAGCTGAGGGCTGA
GAATGAGGCAGTTGGAATCTAGACACTATGCTGGGTTCCTGAGTCGTGAGGCCAGACATTTCAACAAGGCTGTG
GGGAGCAGGGCTGTGACTCTGGCTGAGCCAGGAAAGCGACAAGGTTGAACTGGGAGAGGACTTACTCAGAGACC
CCAACAGGTGATACTGCACAAAGCCTGGTTCTTCAATTTTCTACCTGTATCTAACATAGGAGTTTCATATAAA
ACGGTGATATCATGCAGATGCAGTCTGAATTCCTTGCCTG

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FIGURE 2144

MLGQVVTLILLILLKVVYQGKGCQGSADHVVSISGVPLQLQPNISIQTKVDSIAWKLLPSQNGFHHILKWENGLP
SNTSNDRFSEFIVKNLSLLIKAAQQQDSGLYCLEVTSISGKVQTATFQVFVFDKVEKPRLQGQGGKILDRGRCQVAL
SCLVSRDGNVSYAWYRGSKLIQTAGNLTYLDEEVDINGHTYTCNVSNPVSWEHTLNLTQDCQNAHQEFWF
LVIIIVILSALFLGTLACFCVWRRKRKEKQSETSPKEFLTIYEDVKDLKTRRNHEQEQTFFPGGGSTIYSMIQSQSS
APTSQEPAYTLYSLIQPSRKSGSRKRNHSPSFNSTIYEVIGKSQPKAQNPARLSRKELENFDVYS

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FIGURE 2145A

GGCCCCGGCTGCGAGGAGGAGGCGGCGGCGGCGCAGGAGGATGTACTTGGTGGCGGGGGACAGGGGGTTGGCCGGC
TGC GGCGACCTCCTGGTCTCGCTGCTGGGGCTGCTGCTGCTGCTGGCGCGCTCCGGCACCCGGGCGCTGGTCTGC
CTGCCCTGTGACGAGTCCAAGTGCAGGAGCCAGGAACTGCCCGGGGAGCATCGTGAGGGCGTCTGCGGCTGC
TGCTACACGTGCCCGAGCCAGAGGAACGAGAGCTGCGGCGGCACCTTCGGGATTTACGGAACCTGCGACCGGGG
GTTGTGTCATCCGCCCCCGCTCAATGGCGACTCCCTCACCAGTACGAAGCGGGCGTTTGCGAAGATGAG
TGGACTGATGACCAACTGCTTGGTTTTAAACCATGCAATGAAAACCTTATTGCTGGCTGCAATATAATCAAT
GAAATGTGAATGTAACACCATTGCAACCTGCAGCAATCCCTTTGAGTTTCCAAGTCAGGATATGTGCCTTTCA
GCTTTAAAGAGAATTGAAGAAGAGAAGCCAGATTGCTCCAAGGCCGCTGTGAAGTCCAGTTCTCTCCACGTTGT
GGAAGATTCTGTTCTGATCGAGGGTTATGCTCCTCGGGAGTGTGTGCCCTTACCCAGCCGCTGCGTGTGC
AACCCGCGAGGCTGTCTGCGCAAAGTCTGCCAGCCGGGAAACCTGAACATACTAGTGTCAAAGCCTCAGGGAAG
GAGAGTGTGTGACCTCTATGAGTGCAAACCAAGTTTTCGGCGTGGACTGCAGGACTGTGGAATGCCCTCCT
GAGCAGACCGCGTGTCCCCCGGACAGCTATGAACTCAAGTCAGACTAAGTGCAGATGGTTGCTGTACTTTG
AACAAGATGCGAGTGTCTCTCTGGCTTATGTGGTTTCCCGTGTGTGAGGTGGGATCCACTCCCCGCATAGTC
TCTCGTGGCGATGGGACACCTGGAAAGTGTGTGATGTCTTTGAATGTGTTAATGATACAAAGCCAGCCTGCGTA
TTTAAACAATGTGGAATATTATGATGGAGACATGTTTCGAATGGACAACCTGTCGGTTCTGTGATGCCAAGGGGGC
GTTGCCATCTGCTTCACTGCCCAGTGTGGTGAGATAAAGTGCAGAGGTAAGTACGTGCCCCAAGGAGAGTGTGC
CCAGTGTGTGAAGATCCAGTGTATCCTTTTAAATAATCCCGCTGGCTGCTATGCCAATGGCCTGATCCTTGCCAC
GGAGACCGGTGGCGGGAAGACGACTGCACATTCTGCCAGTGCCTCAACGGTGAACGCCACTGCGTTGCGACCGTC
TGCGGACAGACCTGCACAAACCCTGTGAAAGTGCCTGGGGAGTGTGCCCCTGTGTGCGAAGAACCAACCATCATC
ACAGTTGATCCACCTGCAATGTGGGGAGTTATCAAAGTGCCTCTGACAGGGAAGGACTGCATTAAATGGTTTCAA
CGCGATCACAATGGTTGTGCGACCTGTGAGTGCATAAACCAGGAACTATGTTCAAGACGTAAACAAGGCTGC
ACCTTGAAGTGTCCCTTCGGTTTCCCTTACTGATGCCCAAACTGTGAGATCTGTGAGTGCCGCCCCAAGGCCAAG
AAGTGCAGACCCATAATCTGTGACAAGTATTGTCCACTTGGATTGCTGAAGAATAAGCACGGCTGTGACATCTGT
CGCTGTAAGAAATGTCCAGAGCTCTCATGCAGTAAGATCTGCCCCTTGGGTTTCCAGCAGGACAGTCACGGCTGT
CTTATCTGCAAGTGCAGAGAGGCTCTGCTTCAGCTGGGCCACCCATCCTGTGCGGCACTTGTCTCACCCTGGAT
GGTCATCATCATAAAATGAGGAGAGCTGGCAGCATGGGTGCCGGGAATGCTACTGTCTCAATGGACGGGAAATG
TGTGCCCTGATCACCTGCCCGGTGCCTGCCTGTGGCAACCCACCATTACCCCTGGACAGTGTGCCCCATCATGT
GCAGATGACTTTGTGGTGCAGAAGCCAGAGCTCAGTACTCCCTCCATTGACCAGCCCCCTGGAGGAGAATACTTT
GTGGAAGGAGAAACGTGGAACATTGACTCCTGTACTCAGTGCACCTGCCACAGCGGACGGGTGCTGTGTGAGACA
GAGGTGTGCCACCGCTGCTCTGCCAGAACCCCTCACGCACCCAGGATTCTGCTGCCACAGTGTACAGATCAA
CCTTTTCGGCCTTCTTGTCCCGCAATAACAGCGTACCTAATTACTGCAAAAATGATGAAGGGGATATATTCTCTG
GCAGCTGAGTCTGGAAGCCTGACGTTTGTACCAGCTGCATCTGCATTGATAGCGTAATTAGCTGTTTTCTCTGAG
TCCTGCCCTTCTGTATCCTGTGAAAGACCTGTCTTGAGAAAAGGCCAGTGTGTGCCCTACTGCATAGAAGACACA
ATTCCAAAGAAGGTGGTGTGCCACTTCACTGGGAAGGCCTATGCCGACGAGGAGCGGTGGGACCTTGACAGCTGC
ACCCACTGCTACTGCCTGCAGGGCCAGACCTCTGCTCGACCGTCAGCTGCCCCCTCTGCCCTGTGTTGAGCCC
ATCAACGTGGAAGGAAGTTGCTGCCCAATGTGTCCAGAAATGTATGTCCAGAACCAACCAATATACCCATTGAG
AAGACAAACCATCGAGGAGAGGTTGACCTGGAGGTTCCCTGTGGCCCACGCCTAGTGAAGATGATATCGTCCAT
CTCCCTAGAGATATGGGTACCTCCAGGTAGATTACAGAGATAACAGGCTGCACCCAAGTGAAGATTCTTCACTG
GACTCCATTGCTCAGTTGTGGTTCCCATTAATTATGCTCTCTATTATAATAGCATTCTTATTATCAATCAG
AAGAAACAGTGGATACCACTGCTTTGCTGGTATCGAACACCAACTAAGCCTTCTTCTTAAATAATCAGCTAGTA
TCTGTGGACTGCAAGAAAGGAACAGAGTCCAGGTGGACAGTTCCAGAGAATGCTAAGAATTGCAGAACCAGAT
GCAAGATTCACTGGCTTCTACAGCATGCAAAAACAGAACCATCTACAGGCAGACAATTCTACCAAACAGTGTGA

AGAAAGGCAACTAGGATGAGGTTTCAAAGACGGAAGACGACTAAATCTGCTCTAAAAAGTAACTAGAAATTTGT
GCACTTGCTTAGTGATTGTATTGGATTGTGACTTGATGTACAGCGCTAAGACCTTACTGGGATGGGCTCTGTCT
ACAGCAATGTGCAGAACAGCATTCCCACTTTTCTCAAGATAACTGACCAAGTGTCTTCTTAGAACCAAGTTT
TTAAAGTTGCTAAGATATATTGCTGTAAAGATAGCTGTAGAGATATTTGGGGTGGGGACAGTGAGTTTGGATGG
GGAAATGGGTGGGAGGGTGGTGTGGGAAGAAAATTGGTTCAGCTTGGCTCGGGGAGAAACCTGGTAACATAAAA
CGAGTTCACTGGCCAGAGGTTATTTTTTCTATTGCTCTGAAGACTGCACTGGTTGCTGCAAGCTCAGGCCT

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FIGURE 2145B

GAATGAGCAGGAAACAAAAAGGCCTTGCGACCCAGCTGCCATAACCACCTTAGAACTACCAGACGAGCACATCA
GAACCCCTTTGACAGCCATCCCAGGTCTAAAGCCACAAGTTTCTTTTCTATACAGTCACAAGTGCAGTAGGCAGTG
AGGAAGCCAGAGAAATGCGATAGCGGCATTTCTCTAAAGCGGGTTATTAAGGATATATACAGTTACACTTTTTGC
TGCTTTTATTTTCTTCCAAGCCAATCAATCAGCCAGTTCTAGCAGAGTCAGCACATGAACAAGATCTAAGTCAT
TTCTTGATGTGAGCACTGGAGCTTTTTTTTTTTTACAACGTGACAGGAAGAGGAGGGAGAGGGTGACGAACACCA
GGCAATTCAGGGGCTATATTTCACTGTTTGTGTTGCTTTGTTCTGTTATATTGTTGGTTGTTTCATAGTTTTTG
TTGAAGCTCTAGCTTAAGAAGAACTTTTTTTTAAAAAGACTGTTTGGGGATTCTTTTTCTTATTATATACTGAT
TCTACAAAATAGAACTACTTCATTTTAATTGTATATTATCAAGCACCTTTGTTGAAGCTCAAAAAAATGATG
CCTCTTTAACTTTAGCAATTATAGGAGTATTATGTAACCTATCTTATGCTTCAAAAAACAAAAGTATTTGTGTG
CATGTGTATATAATATATATATATACATATATATTTATACACATACAATTTATGTTTTCTGTTGAATGTATTTT
TATGAGATTTTAACCAGAACAAAGGCAGATAAACAGGCATTCCATAGCAGTGCTTTTGTATCAAAATTTTT
TGAATAACACAAAATCTCATTCTACCTGCAGTTTAATTGGAAAGATGTGTGTGTGAGAGTATGTATGTGTGTGTG
TGTGTGTGTGTGTGTGCGCGCGCACGCACGCCCTTGAGCAGTCAGCATTGCACCTGCTATGGAGAAGGGTATTCCT
TTATTAAATCTTCCTCATTTGGATTTGCTTTTCAGTTGGTTTTCAATTTGCTCACTGGCCAGAGACATTGATGGC
AGTTCTTATCTGCATCACTAATCAGCTCCTGGATTTTTTTTTTTTTTTTTTCAACAATGGTTTGAAACAACCTAC
TGGAATATTGTCCACAATAAGCTGGAAGTTTGTGTAGTATGCCTCAAATATAACTGACTGTATACTATAGTGGT
AACTTTTCAAACAGCCCTTAGCACTTTTATACTAATTAACCCATTTGTGCATTGAGTTTTCTTTTAAAAATGCTT
GTTGTGAAAGACACAGATACCCAGTATGCTTAACGTGAAAAGAAAATGTGTTCTGTTTTGTAAAGGAACTTTCAA
GTATTGTTGTAAATACTTGGACAGAGGTTGCTGAACTTTAAAAAAAATTAATTTATTATTATAATGACCTAATTT
ATTAATCTGAAGATTAACCATTTTTTGTCTTAGAATATCAAAAAGAAAAGAAAAGGTGTTCTAGCTGTTTGC
ATCAAAGGAAAAAAGATTTATTATCAAGGGCAATATTTTTATCTTTTCCAAAATAAATTTGTTAATGATACAT
TACAAAAATAGATTGACATCAGCCTGATTAGTATAAATTTTGTGGTAATTAATCCATTCTGGCATAAAAAGTC
TTTATCAAAAAAATTTGTAGATGCTTGCTTTTTTGTTTTTTCAATCATGGCCATATTATGAAAATACTAACAGGAT
ATAGGACAAGGTGTAAATTTTTTTTATTATTATTTTAAAGATATGATTATCCTGAGTGCTGTATCTATTACTCTT
TTACTTTGGTTCTGTTGTGCTCTTGTAAGAAAATATAATTTCTGAAGAATAAAATAGATATATGGCACTT
GGAGTGCATCATAGTTCTACAGTTTGTTTTTGTTTTCTTCAAAAAAGCTGTAAGAGAATTATCTGCAACTTGATT
CTTGGCAGGAAATAAACATTTTGAGTTGAAATCAAAAAA

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FIGURE 2146

MYLVAGDRGLAGCGHLLVSLGLLLLLLARSGLTRALVCLPCDESKCEEPRNCPGSIVQGVCGCCYTCASQRNE SCG
GTFGIYGTCDRGLRCVIRPPLNGDSLTEYEAGVCEDENWTDDQLLGFKPCNENLIAGCNIINGKCECNTIRTCSN
PFEFPSQDMCLSALKRIEEKPDCKARCEVQFSRCPEDSVLIEGYAPPGECCPLPSRCVCNPAGCLRKVCQPG
NLNILVSKASGKPGECDDLYECKPVFGVDCRTVECPVQQTACPPDSYETQVRLTADGCCTLPTRCECLSGLCGF
PVCEVGSTPRIVSRGDGTPGKCCDVFEVNDTKPACVFNNVEYYDGMFMRDNCRCRCQGGVAICFTAQCGEIN
CERYVPEGECCPVCEDPVYPFNNPAGCYANGLILAHGDRWREDDCTFCQCVNGERHCVATVCGQTCTNPVKVPG
ECCPVCEEPTIITVDPPACGELSNCTLTGKDCINGFKRDHNGCRTCQCINTEELCSERKQGCTLNCPFGFLTDAQ
NCEICECRPRPKKCRPIICDKYCPLGLLKNKHGCDICRCKKCPLESCSKICPLGFQQDSHGCLICKCREASASAG
PPILSGTCLTVDGHHHKNEESWHDGCRECYCLNGREMCALITCPVPACGNPTIHPGQCCPSCADDFVVKPELST
PSICHAPGGEYFVEGETWNIDSCTQCTCHSGRVLCETEVCPPLLCQNPSTQDSCCPQCTDQFPRPSLSRNNSVP
NYCKNDEGDIFLAAESWKPDVCTSCICIDSVISCFSESCPSVSCERPVLKRGQCCPYCIEDTIPKKVVCHFSGKA
YADEERWDLDSCTHCYCLQGQTLCTVSCPPLPCVEPINVEGSCCPMCPEMYVPEPTNIPIEKTNHRGEVDLEVP
LWPTPSENDIVHLPRDMGHLQVDYRDNRLHPSSEDSSLDIASVVVPIIICLSIIIAFLFINQKKQWIPLLCWYRT
PTKPSSLNNQLVSVDCCKGTRVQVDSSQRMRLRIAEPDARFSGFYSMQKQNLQADNFIQTV

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FIGURE 2147

AACTCGGTGAACAACCTGAGGGAACCAAACCAGAGACGCGCTGAACAGAGAGAATCAGGCTCAAAGCAAGTGGAAAG
TGGGCAGAGATTCCACCAGGACTGGTGCAAGGCGCAGAGCCAGCCAGATTTGAGAAGAAGGCAAAAAGATGCTGG
GGAGCAGAGCTGTAATGCTGCTGTTGCTGCTGCCCTGGACAGCTCAGGGCAGAGCTGTGCCTGGGGGCAGCAGCC
CTGCCTGGACTCAGTGCCAGCAGCTTTACAGAAGCTCTGCACACTGGCCTGGAGTGCACATCCACTAGTGGGAC
ACATGGATCTAAGAGAAGAGGGAGATGAAGAGACTACAAATGATGTTCCCCATATCCAGTGTGGAGATGGCTGTG
ACCCCCAAGGACTCAGGGACAACAGTCAGTTCTGCTTGCAAAGGATCCACCAGGGTCTGATTTTTTTATGAGAAGC
TGCTAGGATCGGATATTTTCACAGGGGAGCCTTCTCTGCTCCCTGATAGCCCTGTGGGCCAGCTTCATGCCTCCC
TACTGGGCCTCAGCCAACCTCCTGCAGCCTGAGGGTCACCACTGGGAGACTCAGCAGATTCCAAGCCTCAGTCCCA
GCCAGCCATGGCAGCGTCTCCTTCTCCGCTTCAAATCCTTCGCAGCCTCCAGGCCTTTGTGGCTGTAGCCGCCC
GGGTCTTTGCCCATGGAGCAGCAACCCTGAGTCCCTAAAGGCAGCAGCTCAAGGATGGCACTCAGATCTCCATGG
CCCAGCAAGGCCAAGATAAATCTACCACCCAGGCACCTGTGAGCCAACAGGTTAATTAGTCCATTAATTTTAGT
GGGACCTGCATATGTTGAAAATTACCAATACTGACTGACATGTGATGCTGACCTATGATAAGGTTGAGTATTTAT
TAGATGGGAAGGGAAATTTGGGGATTATTTATCCTCCTGGGGACAGTTTGGGGAGGATTATTTATTGTATTTATA
TTGAATTATGTACTTTTTTCAATAAAGTCTTATTTTTGTGGCTAAAAAAA

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FIGURE 2148

MLGSRAVMLLLLLPWTAAQGRAVPGGSSPAWTQCQQLSQKLCTLAWSAHPLVGHMDLREEGDEETTNDVPHIQCGD
GCDPQGLRDNSQFCLQRHQGLIFYEKLLGSDIFTGEP SLLPDSPVGQLHASLLGLSQLLQPEGHHWETQQIPSL
SPSQPWQRLLLRFKILRSLQAFVAVAAARVFAHGAATLSP

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FIGURE 2149

GCAGGTAGGTGGACGGAGAGATAGCAGCGACGAGGACAGGCCAAACAGTGACAGCCACGTAGAGGATCTGGCAGA
CAAAGAGACAAGGTGAGAAGGAGACTTTGGAAGTGACCCACCATGGGGCTCAGCATCTTTTGCTCCTGTGTGTT
CTTGGGCTCAGCCAGGCAGCCACACCGAAGATTTTCAATGGCACTGAGTGTGGGCGTAACTCACAGCCGTGGCAG
GTGGGGCTGTTTGAGGGCACCAGCCTGCGCTGCGGGGGTGTCTTATTGACCACAGGTGGGTCTCACAGCGGCT
CACTGCAGCGGCAGCAGGTACTGGGTGCGCCTGGGGGAACACAGCCTCAGCCAGCTCGACTGGACCGAGCAGATC
CGGCACAGCGGCTTCTCTGTGACCCATCCCGGCTACCTGGGAGCCTCGACGAGCCACGAGCACGACCTCCGGCTG
CTGCGGCTGCGCCTGCCCGTCCGCGTAACCAGCAGCGTTCAACCCCTGCCCCTGCCCAATGACTGTGCAACCGCT
GGCACCGAGTGCCACGTCTCAGGCTGGGGCATCACCAACCACCCACGGAACCCATTCCCGGATCTGCTCCAGTGC
CTCAACCTCTCCATCGTCTCCCATGCCACCTGCCATGGTGTGTATCCCGGGAGAATCACGAGCAACATGGTGTGT
GCAGGCGGCGTCCCGGGGCAGGATGCCTGCCAGGGTGATTCTGGGGGCCCCCTGGTGTGTGGGGGAGTCCTTCAA
GGTCTGGTGTCTGGGGGTCTGTGGGGCCCTGTGGACAAGATGGCATCCCTGGAGTCTACACCTATATTTGCAAC
TCCACTCTTGTGGCCTGGGAACCTTCTTGGAACCTTAACTCCTGCCAGCCCTTCTTAAGACCCACGAGCGGGGTGA
GAGAAGTGTGCAATAGTCTGGAATAAATATAAATGAAGGAGGGGC

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FIGURE 2150

MGLSIFLLLCVLGLSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLIDHRWVLTAAHCSGSRYWVRLGEH
SLSQLDWTEQIRHSGFSVTHPGYLGASTSHEHDLRLLRLRPVRVTSSVQPLPLPNDCATAGTECHVSGWGITNH
PRNFPDLLQCLNLSIVSHATCHGVYPGRITSNMVCAGGVPGQDACQGDSSGGLVCGGVLQGLVSWGSVGPCGQD
GIPGVITYICNSTLVGLGTSWNFNNSCQPF

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FIGURE 2151

GGGATTTTTAAAAAATCAAAATACAAATCCAACCTTTTTGAGTTTTCGTTGTCATTGCTCTTATCTTTCTGAGTC
ACTTCCCATTTTCCAAACTCAGCAACCCAGTTTGGGAGTCTGGTTTTCATGAACCTTTGTAAGGTGTTTGGTGCG
GTCACRGTGTATACTTGCCGTGTAGTATTTGACTCAGCGCATCTGCCTTGAGTCATTTTACCGCGGCCATTTAC
TACTGCCGTTGAGCCCTGTCCACGCCTTGGGAGTGTTGATATGTTGAGAGTTTTCTGTCTGGCTGRGGAGGGATC
ATTTAGTTTTTGGCGACGTATGTTGCACTGAGGATTTAGGGAGAGAGCAAGATTTCTGTTGAGGAGGTTTCAAG
TATAAGGAATCGGGAGAGTAGATAGGAGTGAAGCATTGGCAGCGTAAAGAAGCTTGGCTTAGCTTTAATGGATT
AGGGAGAGATTGCTATCTAGCATTATTACATGTTATTGTTCTCTTTGCTATTTTATACACCTAGAACAACTTTT
CCTCGGGGTTAACAAACATCTTCAACTCTGTTTTCTGTATGGCTCCTGACTCTTACCTTTGTTTTAGGAGGCTTC
CCTCTTCAGAGGAACTGGGAGAAGCCAATTTCCACTGCTTCTTTTTCTGTGCTTTTTTAACACTCAAACCCAG
AACACTTAATCCTCTGCAGCTCGTGCAAAAATTCAGTCTGTAATTTAAAATGTGTGCACGGTACACTGCTGACCA
TGGGCATGTCTATTGTTTGTATCTGTAATGTGTATGTCCATTTGAGTGTGCTGTTTTAGTATGCAGGTGATAG
ACTAGAGAAACAAGACCTCTGTCTCCGTAGCATCCTGGAGCAGTCTGAATGCCAGAAATGGATAACCGTTTTGCTAC
AGCATTTGTAATTGCTTGTGTGCTTAGCCTCATTTCACCATCTACATGGCAGCCTCCATTGGCACAGACTTCTG
GTATGAATATCGAAGTCCAGTTCAAGAAAATTCAGTGATTTGAATAAAAGCATCTGGGATGAATTCATTAGTGA
TGAGGCAGATGAAAAGACTTATAATGATGCACTTTTTCGATACAATGGCACAGTGGGATTGTGGAGACGGTGTAT
CACCATACCCAAAACATGCATTGGTATAGCCCACCAGAAAGGACAGAGTCATTTGATGTGGTCACAAAATGTGT
GAGTTTCACACTAACTGAGCAGTTTCATGGAGAAATTTGTTGATCCCGAAACCACAATAGCGGGATTGATCTCCT
TAGGACCTATCTTTGGCGTTGCCAGTTCCTTTTTACCTTTTGAGTTTAGGTTTGATGTGCTTTGGGGCTTTGAT
CGGACTTTGTGCTTGCAATTTGCCGAAGCTTATATCCCACCATTGCCACGGGCATTCTCCATCTCCTTGAGGTCT
GTGTACACTGGGCTCAGTAAGTTGTTATGTTGCTGGAATTGAACTACTCCACCAGAACTAGAGCTCCCTGACAA
TGTATCCGGTGAATTTGGATGGTCTTCTGCCTGGCTTGTGTCTCTGCTCCCTTACAGTTTCATGGCTTCTGCTCT
CTTCATCTGGGCTGCTCACACCAACCGGAAAGAGTACACCTTAATGAAGGCATATCGTGTGGCATGAGCAAGAAA
CTGCCTGCTTTACAATTGCCATTTTTATTTTTTTAAAATAATACTGATATTTTCCCCACCTCTCAATTGTTTTTA
ATTTTTATTTGTGGATATACCATTTTATTATGAAAATCTATTTTTATTTATACACATTCACCACTAAATACACACT
TAATACCACTAAAATTTATGTGGTTTACTTTAAGCGATGCCATCTTTCAAATAAACTAATCTAGGTCTAGACAGA
AAGAAATGGATAGAGACTTGACACAAATTTATGAAAGAAAATTGGGAGTAGGAATGTGACCGAAAACAAGTTGTG
CTAATGTCTGTTAGACTTTTCAGTAAACATAAAGTAACTGTATCTGTTCAACTAAAACTCTATATTAGTTTCTT
TGGGAAACCTCTCATCGTCAAACTTTATGTTCACTTTGCTGTTGTAGATAGCCAGTCAACCAGCAGTATTAGTG
CTGTTTTCAAAGATTTAAGCTCTATAAAATTGGGAAATTATCTAAGATCATTTTCCCTAAGCATTGACACATAGC
TTCATCTGAGGTGAGATATGGCAGCTGTTTGTATCTGCACTGTGTCTGTCTACAAAAAGTGAAAAATACAGTGTT
TACTTGAAATTTTAACTTTGTAAGTGAAGAATTCAGTTTCAGCCGGGCGAGGATTAGTATTATTTTTAACTCTC
CGTAAGATTTTTCAGTACCACCAATTTGTTTTGGATTTTTTTTTCTTTCTCTTCACATACCAGGGTTATTAAAGT
GTGCTTTCTTTTTACATTATATTACAGTTACAAGGTAAATTCCTCAACTGCTATTTATTATTCCAGCCCAGTA
CTATAAAGAACGTTTACCATAATGACCCCTCCAGAGCTGGGAAACCTACCACAAGATCTAAAGTTCTGGCTGTCC
ATTAACCTCCAACATATGGTCTTTATTTCTTGTGGTAATATGATGTGCTTTCTTGCCTAAATCCCTTCTGGTG
TGTATCAACATTATTTAATGTCTTCTAATTCAGTCATTTTTTTATAAGTATGTCTATAAACATTGAACTTTAAAA
AACTTATTTATTTATTCCTACTGTAGCAATTGACAGATTAAAAAATGTAACCTCATAATTTCTTACCATAAC
CTCAATGTCTTTTTTAAAAAATAAAATGAAAAGAGAAA

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FIGURE 2152

MDNRFATAFVIACVLSLISTIYMAASIGTDFWYEYRSPVQENSSDLNKS IWDEFISDEADEKTYNDALFRYNGTV
GLWRRRCITIPKNMHWYSPPERTESFDVVTKCVSFTLTEQFMEKFVDPGNHNSGIDLLR TYLWRCQFLLPFVSLGL
MCFGALIGLCACICRSLYPTIATGILHLLAGLCTLGSVSCYVAGIELLHQKLELPDNVSGEFGWSFCLACVSAPL
QFMASALFIWAAHTNRKEYTLMKAYRVA

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FIGURE 2153

CTAGTTCTAGATCCGGCGAGTAGCTGGCGGTCCCGGGTGCTGCTGGTTAGTGTGCTCTGAGGGAGGGTCCGAGCC
AGCCGCTGTTTTGCCGGAGGAGCCCTCAGGCCGTAGTAAGCATTAAATAATGCTCTTTTCATCTTTGAGTGGATCTA
CAATGGCTTCAGCAGTGTGCTCCAGTTCCTAGGACTGTACAAGAAATCTGGAAAACCTGTATTCTTAGGTTTGGA
TAATGCAGGCAAAACCACTCTTCTTCACATGCTCAAAGATGACAGATTGGGCCAACATGTTCCAACACTACATCC
GACATCAGAAGAGCTAACAATTGCTGGAATGACCTTTACAACTTTTGATCTTGGTGGGCACGAGCAAGCACGTG
CGTTTGGAAAAATTATCTCCCAGCAATTAATGGGATTGTCTTTCTGGTGGACTGTGCAGATCATTCTCGCCTCGT
GGAATCCAAAGTTGAGCTTAATGCTTTAATGACTGATGAAACAATATCCAATGTGCCAATCCTTATCTTGGGTAA
CAAAATTGACAGAACAGATGCAATCAGTGAAGAAAACTCCGTGAGATATTTGGGCTTTATGGACAGACCACAGG
AAAGGGGAATGTGACCCCTGAAGGAGCTGAATGCTCGCCCCATGGAAGTGTTCATGTGCAGTGTGCTCAAGAGGCA
AGGTTACGGCGAGGGTTTTCCGCTGGCTCTCCCAGTATATTGACTGATGTTTGGACGGTGAAAATAAAAGAGTTTT
ACTTCTCTGGACTGATCCTATTACAGCTTCTCATGAACCTTTCTAATAGAACAAGGAAAGCTCTCCAACCATG
TCTGGCGTTGAGAAGCCAAGAGTCTCTGTCAACTCTCTCATTGCCAGTGGTGACATGTGCTCTTCTCCACACTG
TTGGGAGGTAATGCTGCCCCACGTGCTGGTGCAGGTCAGTATCCTGGGACTTGGAAAGCTGGCAGGATTTGCCGGG
TAAAGCTGTATGCCATCATGGGGCACCTGAAAAGAAAAACAGTCTCACCAGTGTGGTTGATTCAAAAGAAAGTG
ATTCTATTTTTTAAAGAAAGCGTTGTTAATGTAATTGGTATCCCTCCTAACTTTTTGAGTTCACAATTTACTTGG
TCCAGAGTTTTCTATTCTTTTTTTTTTAACTAATGAATGACATTTAGATACTTCATAAAATTATGAACAGAT
ATGGAGGCCAGAGCTCATTGGGTAACTTACTCCTGCTGAGTTAGCAGGTTGGTGAGAGAAGCTCCCTGAGCT
CACCTGTCTCTCTGACTGCCTTGGAGTAGGTGGCATAACCTTGTGCACAGAGAACTAGAAAAGGGGCAGAACCC
GGCCTTGCAGTTGTGGCAGGTTTCCACTGTGGTAAGCTAGGTTTCACTCCTCATCAAGGAATGTGTAGCAGATTGT
TCACTGTGGAGGAGTTAATTATAGAATGGGTTATTGTTGTTATTCTTACTCATGAAGTTACAGATTTTAGCCAGT
CTTTGCTTTTATACTTTTGTGAAATTTAATTTCTCTCTATAGCACCTTCTTTTTCGTTTTTCAGTTATCAAAAGT
GACTTTGACCTCATAAAAGAGTTGAGAACATCTCTCGTGTACATACTGCAGGTGCATCAGTTACTTTTGCACAG
ATTCTGGGGGACATTTTCTGAATAGGAAGACAGGACAAAGTTAACAGCTTAAGGGCTCTTAATTCTGTGAGTTG
AGGACTTAAAAGTATTGTAGCATTGTTTGGATCCATGAAAAATGTATTGAGTGGGCTTTAAATTTCCATTTGC
AGAATTTGGTCTCTCAGGCTGTTTGGGAGCTCTTTTTTTTACATTTTTTCTCCTTTGACACCTATTTTATTGGTG
TTTAAAGTAAAGGTTAACATCTGTAGCTTTTCCAGGTTTTTTTTTTTTTTTTTTTGATATGAAATTGTCTTTCTC
CATTGCAGAAATAAGCTAGGGAAACACTAACCCAAAACTTTCTGTAGAGCTGTTCTTTGGAGGCAGCATCACT
TATTGGCAGTAAAGACTCAGTATAAAAGCACCAGCATCCCTACTTGGGTGATGGGGATTAATTTTATAGCATTCC
ATTTTCTAGTGCCACATGTGAAATTGGATTTTGATGATCTTAATCTATATTCTACCCTTATAATAAAAGATCAA
AAGATATATCTCCTATGAACAGATTGGAGATAGGAGATGAAAAGTTGGGAGGATGTCTTTATTCTAATGTGAGGG
TAGGGAAATGTGGATAACATTACTGGGGTGAAGGAGGCATTGTTCTTTAGTTGGAGTTCTCATTTTTTATTCTCC
AGTACTGACTTGTGGGGAAGCATACTTTTCTACTGCCAGGTACTGAATGCAGAGGCTCAGTGAAGTATATATGT
GGGAAGTGCATGCATTTCTGTTTATTAGCAAACATAGCTGGATTAAGACAAAGTTGTTGGTTTTGGAAGGGGTAA
AGCCTTAAGTGAACAAATCTAGCTAACAGTGAATGAACTAGGTAATATAACTTGCATATTTTTTAATTTCTTTGG
TTAAAGGTCCCCATACTTCTCTGTTTCGGAGACATGAGAAGTATGATTACTTCAGTGTAGTTTTCTTAATTTTT
TTTTTCCCTATTTGTCCCTTGTCACTTTGTTGCAAGCTAGAAATCTGTGGGTTATACATAGGGCAGCTCTTTGT
GAAAGTGGTTTTATTCCACTGGAGAAAAGGGGATTGAAATCAGTTAGAACCAATGTATTTCTTGCCCCACGGAACA
CTATTCTATAAGATAGCTGAAAGAAGCTGCTGTGAGGAGCTCAGCTCCAAACACAGGATCAGCACCTTGTATAG
GAATTCCTATGAATTATGACTTCTCATTCTGTTTTATCAGAGTGCATATATGTCCTACTTCAGGAAAAGTAAAA
AGTCATTTACGAAAGAAAGTCAATCTGTATCCTAAGCATTTTAATAAAAGTTAAAACAAAAAAAAAAAAAAAAA
AAA

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FIGURE 2154

MSFIFEWIYNGFSSVLQFLGLYKKSGKLVFLGLDNAGKTTLLHMLKDDRLGQHVP TLHPTSEELTIAGMTFTTFD
LGGHEQARRVWKNYLPAINGIVFLVDCADHSRLVESKVELNALMTDETISNVP ILILGNKIDRTDAISEEKLREI
FGLYGQTTGKGNVTLKELNARPMEVFMCSVLKRQGYGEGFRWLSQYID

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FIGURE 2155

TAGGGCGGTTCGCGTAATTCGGCACGAGGGCGCTCACGTATGCCGGCGGTCA GTGGTCCAGGTCCCTTATTCTGCC
TTCTCCTCCTGCTCCTGGACCCCCACAGCCCTGAGACGGGGTGTCTCCTCTACGCAGGTTTGAGTACAAGCTCA
GCTTCAAAGGCCCAAGGCTGGCATTGCCTGGGGCTGGAATACCCTTCTGGAGCCATCATGGAGACGCCATCCTGG
GCCTGGAGGAAGTGCGGCTGACGCCATCCATGAGGAACCGGAGTGGCGCCGTGTGGAGCAGGGCCTCTGTCCCCT
TCTCTGCCTGGGAAGTAGAGGTGCAAATGAGGGTGACGGGACTGGGGCGCCGGGAGCCACGGCATGGCCGTGT
GGTACACCCGGGGCAGGGGCCATGTAGGCTCTGTCTTGGGGGGCTGGCTTCGTGGGACGGCATCGGGATCTTCT
TTGACTCTCCGGCAGAGGATACTCAGGACAGTCTGCCATCCGTGTGCTGGCCAGCGACGGGCACATCCCCTCTG
AGCAGCCTGGGGATGGAGCTAGCCAAGGGCTGGGCTCCTGTCAATTGGGACTTCCGGAACCGGCCACACCCCTTCA
GAGCACGGATCACCTACTGGGGGCAGAGGCTGCGCATGTCTTGAACAGTGGCCTCACTCCAGTGATCCAGGTG
AGTTCTGTGTGGATGTGGGGCCCCTGCTTTTGGTCCCTGGAGGTTTCTTTGGGGTCTCAGCAGCCACCGGCACCC
TGGCAGATGATCATGATGTCTGTCTTCCCTGACCTTCAGCCTGAGTGAGCCCAGCCCAGAGGTTCCCCCTCAGC
CCTTCTGGAGATGCAGCAGCTCCGCCTGGCGAGGCAGCTGGAAGGGCTGTGGGCAAGGCTGGGCTTGGGCACCA
GGGAGGATGTAAC TCCAAAATCAGACTCTGAAGCTCAAGGAGAAGGGGAAAGGCTCTTTGACCTGGAGGAGACGC
TGGGCAGACACCGCCGGATCCTGCAGGCTCTGCGGGGTCTCTCCAAGCAGCTGGCCCAGGCTGAGAGACAATGGA
AGAAGCAGCTGGGGCCCCCAGGCCAAGCCAGGCCTGACGGAGGCTGGGCCCTGGATGCTTCCTGCCAGATTCCAT
CCACCCAGGGAGGGGTGGCCACCTCTCCATGTCACTCAATAAGGACTCTGCCAAGGTCGGTGCCCTGCTCCATG
GACAGTGGACTCTGCTCCAGGCCCTGCAAGAGATGAGGGATGCAGCTGTCCGCATGGCTGCAGAAGCCCAGGTCT
CCTACCTGCCCTGTGGGCATTGAGCATCATTTCTTAGAGCTGGACCACATCCTGGGCCTCCTGCAGGAGGAGCTTC
GGGGCCCGGC GAAGGCAGCAGCCAAGGCCCCCCCGCCACCTGGCCAGCCCCCAAGGGCCTCCTCGTGCCTGCAGC
CTGGCATCTTCCTGTTCTACCTCCTCATTAGACTGTAGGCTTCTTCGGCTACGTGCACTTCAGGCAGGAGCTGA
ACAAGAGCCTTCAGGAGTGTCTGTCCACAGGCAGCCTTCCTCTGGGTCTGCACCACACACCCCCAGGGCCCTGG
GGATTCTGAGGAGGCAGCCTCTCCCTGCCAGCATGCCTGCCTTGACCCACCTCAGAGCCTGCTTTGCATCACTGGG
AAGCAGGCAGTGTCTTGGGTGGGGGCTTGGTCAGTATCCTCTCCGTCTGGGTGCCAGCTCCCACGCACACCTGA
GCTTTCGGCATGCTCCACCTCGTTAAAGGTGATTCCCTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 2156

MPAVSGPGPLFCLLLLLLLDPHSPETGCPPLRRFEYKLSFKGPRLALPGAGIPFWSHHGDAILGLEEVRLTPSMRN
RSGAVWSRASVPFSAWEVEVQMRVTGLGRRGAHGMAVWYTRGRGHVGSVLGGLASWDGIGIFFDSPAEDTQDSPA
IRVLASDGHIPSEQPGDGASQGLGSCHWDFRNRPHPFRRARITYWGQRLRMSLNSGLTPSDPGEFCVDVGPLLLVP
GGFFGVSAATGTLADDHDVLSFLTFSLSSEPSPEVPPQPFLEMQQLRLARQLEGLWARLGLGTREDVTPKSDSEAO
LDERLFDLEETLGRHRRILQALRGLSKQLAQAERQWKKQLGPPGQARPDGGWALDASCQIPSTPGRGGHLSMSL
SAKVGALLHGQWTLQALQEMRDAAVRMAAEAQVSYLPVGIEHHFLELDHILGLLQEELRGPAAAAKAPRP
PPRASSCLOPGIFLFYLLIQTVGFFGYVHFRQELNKSLECLSTGSLPLGPAPHTPRALGILRRQPLPASMP
A

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FIGURE 2157

AACAAACTGCACCCACTGAACTCCGCAGCTAGCATCCAAATCAGCCCTTGAGATTTGAGGCCTTGGAGACTCAGG
AGTTTTGAGAGCAAAATGACAACACCCAGAAATTCAGTAAATGGGACTTTCCTGGCAGAGCCAATGAAAGGCCCT
ATTGCTATGCAATCTGGTCCAAAACCACTCTTCAGGAGGATGTCTTCACTGGTGGGCCCCACGCAAAGCTTCTTC
ATGAGGGAATCTAAGACTTTGGGGGCTGTCCAGATTATGAATGGGCTCTTCCACATTGCCCTGGGGGGTCTTCTG
ATGATCCCAGCAGGGATCTATGCACCCATCTGTGTGACTGTGTGGTACCCTCTCTGGGGAGGCATTATGTATATT
ATTTCCGGATCACTCCTGGCAGCAACGGAGAAAAACTCCAGGAAGTGTGTTGGTCAAAGGAAAAATGATAATGAAT
TCATTGAGCCTCTTTGCTGCCATTTCTGGAATGATTCTTTCAATCATGGACATACTTAATATTAAAAATTTCCCAT
TTTTTAAAAATGGAGAGTCTGAATTTTATTAGAGCTCACACACCATATATTAACATATACAACGTGAACCAGCT
AATCCCTCTGAGAAAACTCCCCATCTACCCAATACTGTTACAGCATAACAATCTCTGTTCTTGGGCATTTTGTCA
GTGATGCTGATCTTTGCCTTCTTCCAGGAACCTGTAATAGCTGGCATCGTTGAGAATGAATGGAAAAAGAACGTGC
TCCAGACCCAAATCTAACATAGTTCTCCTGTCAGCAGAAGAAAAAAGAACAGACTATTGAAATAAAAAGAAGAA
GTGGTTGGGCTAACTGAAACATCTTCCCAACCAAAGAATGAAGAAGACATTGAAATTATTCCAATCCAAGAAGAG
GAAGAAGAAGAAACAGAGACGAACCTTCCAGAACCTCCCCAAGATCAGGAATCCTCACCAATAGAAAATGACAGC
TCTCCTTAAAGTGATTTCTTCTGTTTCTGTTTCTTTTAAACATTAGTGTTTCATAGCTTCCAAGAGACATGCT
GACTTTTCATTTCTTGAGGTACTCTGCACATACGCACCACATCTCTATCTGGCCTTTGCATGGAGTGACCATAGCT
CCTTCTCTCTTACATTGAATGTAGAGAATGTAGCCATTGTAGCAGCTTGTGTTGTCACGCTTCTTCTTTTGAGCA
ACTTTCTTACACTGAAGAAAGGCAGAATGAGTGCTTCAGAATGTGATTTCCCTACTAACCTGTTCTTGGATAGGC
TTTTTAGTATAGTATTTTTTTTTTGTCAATTTTCTCCATCAGCAACCAGGGAGACTGCACCTGATGGAAAAGATATA
TGACTGCTTCATGACATTCCTAACTATCTTTTTTTTTTATTCCACATCTACGTTTTTGGTGGAGTCCCTTTTGCAT
CATTGTTTTAAGGATGATAAAAAAAAAATAACAACCTAGGGACAATACAGAACCCATTCCATTTATCTTTCTACAG
GGCTGACATTGTGGCACAATTCTTAGAGTTACCACACCCCATGAGGGAAGCTCTAAATAGCCAACACCCATCTGTT
TTTTGTAAAAACAGCATAGCTT

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FIGURE 2158

MTTPRNSVNGTFLAEPKGPAMQSGPKPLFRMSSLVGPTQSFFMRESKTLGAVQIMNGLFHIALGGLLMIPAG
IYAPICVTWYPLWGGIMYIISGSLLAATEKNSRKCLVKGKMIMNSLSLFAAISGMILSIMDILNIKISHFLKME
SLNFIRAHTPYINIYNCEPANPSEKNSPSTQYCYSIQSLFLGILSVMLIFAFFQELVIAGIVENEWKRTCSRPKS
NIVLLSAEEKKEQTIEIKEEVVGLTETSSQPKNEEDIEIPIQEEEEETETNFPPEPPQDQESSPIENDSSP

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FIGURE 2159

CTTGAGAGGCTCTGGCTCTTGCTTCTTAGGCGGCCCGAGGACGCCATGGCCGAGTGCCCGACACTCGGGGAGGCA
GTCACCGACCACCCGACC GCCTGTGGGCCTGGGAGAAGTTCTGTGATTTGGACGAGAAGCAGCACGCCTGGCTG
CCCTTAACCATCGAGATAAAGGATAGGTTACAGTTACGGGTGCTCTTGCGTCGGGAAGACGTCGTCCTGGGGAGG
CCTATGACCCCCACCCAGATAGGCCCAAGCCTGCTGCCTATCATGTGGCAGCTCTACCCTGATGGACGATAACGA
TCCTCAGACTCCAGTTTCTGGCGCTTAGTGTACCACATCAAGATTGACGGCGTGGAGGACATGCTTCTCGAGCTG
CTGCCAGATGACTGATGTATGGTCTTGGCAGCACCTGTCTCCTTTCACCCAGGGCCTGAGCCTGGCCAGCCTAC
AATGGGGATGTTGTGTTTCTGTTACCTTCGTTTACTATGCCTGTGTCTTCTCCACCACGCTGGGGTCTGGGAGG
AATGGACAGACAGAGGATGAGCTCTACCCAGGGCCTGCAGGACCTGCCTGTAGCCCACTCTGCTCGCCTTAGCAC
TACCACTCCTGCCAAGGAGGATTCCATTTGGCAGAGCTTCTTCCAGGTGCCCAGCTATACCTGTGCCTCGGCTTT
TCTCAGCTGGATGATGGTCTTCAGCCTCTTTCTGTCCCTTCTGTCCCTCACAGCACTAGTATTTTCATGTTGCACA
CCCACTCAGCTCCGTGAAC TTGTGAGAACACAGCCGATTCACCTGAGCAGGACCTCTGAAACCTGGACCAGTGG
TCTCACATGGTGCTACGCCTGCATGTAAACACGCCTGCAAACGCTGCCTGCCGGTAAACACGCCTGCAAACGCTG
CCTGCCCGTAAACACGCCTGCAAACGCTGCCTGCCACACAGGTTACGTGCAGCTCAAGGAAAGGCCTGAAAGG
AGCCCTTATCTGTGCTCAGGACTCAGAAGCCTCTGGGTCAGTGGTCCACATCCCGGGACGCAGCAGGAGGCCAGG
CCGGCGAGCCCTGTGGATGAGCCCTCAGAACCCTTGGCTTGCCACGTGGAAAAGGGATAGAGGTTGGGTTTCCC
CCCTTTATAGATGGTTCACGCACCTGGGTGTTACAAAGTTGTATGTGGCATGAATACTTTTTGTAATGATTGATTA
AATGCAAGATAGTTTATCTAACTTCGTGCGCAATCAGCTTCTATCCTTGACTTAGATTCTGGTGGAGAGAAGTGA
GAATAGGCAGCCCCCAAATAAAAAATATTCATGGAAAAAAAAAAAAAAAAA

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FIGURE 2160

MAECPTLGEAVTDHPDRLWAWKEFVYLDEKQHAWLPLTIEIKDRLQLRVLLRREDVVLGRPMTPTQIGPSLLPIM
WQLYPDGRYRSDSSFWRLVYHIKIDGVEDMLELLLPDD

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FIGURE 2161A

GGCACTGTGTTACCAGCAGAGAGACAGGGCAAGCAGAATGTGCCTGTATGGACCTTTGCAAACGTCCTACTACAAAC
CTGTGTGTGGATCTGACGGAGAATTCTATGAAAACCACTGTGAAGTGCACCGAGCTGCTTGCCTGAAAAACAAA
AGATTACCATTGTTTACAAATGAAGACTGCTTCTTTAAAGGAGATAAGTGCAAGACTACTGAATGCAGCAAGATGA
AAAAATAGCTATTAGATTTACAAAATCAAAGATATATTATGCAAGAAAAATGAAAATCCTAATGGCGACGACATAT
CTCGGAAGAAGCTATTGGTGGATCAAATGTTTAAATATTTTGTATGCAGACAGTAATGACTTGTAGATATTAATGA
ACTAACTCAGGTGATAAAACAGGAAGAACTTGGCAAGGATCTCTTTGATTGTACTTTGTATGTTCTATTGAAATA
TGATGATTTTTAATGCTGACAAGCACCTGGCTCTTGAAGAATTTTATAGAGCATTCCAAGTGATCCAGTTGAGTCT
GCCAGAAGATCAGAACTAAGCATCACTGCAGCAACTGTGGGACAAAGTGCTGTTCTGAGCTGTGCCATTCAAGG
AACCCTGAGACCTCCCATTTATCTGGAAGGAACAATATTATCTAAATAATTTAGGTTTGAAGACATCAATGA
CTTTGGAGATGATGGGTCTTGTATATTACTAAGGTTACCACAACCTCACGTTGGCAATTACACCTGCTATGCAGA
TGGCTATGAACAAGTCTATCAGACTCACATCTTCCAAGTGAATGTTCCCTCCAGTCATCCGGGTGTATCCAGAGAG
TCAGGCTAGAGAGCCTGGGGTAACTGCCAGTCTTAGGTGCCATGCAGAGGGCATACCAAAGCCTCAGCTTGGCTG
GTTGAAGAATGGAATTGATATTACACCAAAGCTTTCCAAACAACCTCACGCTTCAAGCAAATGGCAGTGAGGTTCA
CATAAGCAATGTGCGCTATGAAGATACTGGAGCATACTTGTATCGCAAAGAATGAAGCAGGAGTGGATGAAGA
CATCTCTTCTCTTTTTTGTGGAAGACTCTGCTAGAAAGACCCCTAGCTAACATATTATGGAGAGAAGAAGGTCTGGG
AATTGGGAACATGTTCTATGTTTTTTATGAAGATGGAATCAAAGTGATACAACCCATAGAATGTGAATTCAGAG
GCACATTAAGCCTAGTGAAAAGCTCCTTGGATTTCAGGATGAAGTCTGTCCCATAGCTGAGGGAGATGAAGTTCA
GAGGTGTGTGTGGGCATCAGCTGTTAATGTCAAAGACAAGTTCATTTATGTTGCACAGCCAACCTTTGGACAGAGT
CCTTATTGTTGATGTGCAGTCCCAAAAAGTTGTTTCAGGCAGTGAGCACAGACCCTGTCCAGTTAAATTACACTA
TGACAAATCACATGATCAGGTCTGGGTGCTAAGCTGGGGTACCTTGGAGAAGACATCACCAACACTACAGGTAAT
TACCCTGGCCAGTGGGAATGTGCCTCACCACACGATCCACACCCAACAGTGGGAAAGCAATTTGACAGAGTGGGA
TGATTTTTTTCATTCCCAACCAACACTCATTATCACCCATATGAGGTTTGGATTTATTCTTCATAAAGATGAAGC
TGCACTACAAAAAATTGATCTTGAAACCATGTCTATACATCAAGACAATTAACCTTGAAGGACTATAAGTGCGTTCC
TCAGTCATTGGCATATACACACTTGGGAGGCTACTACTTCATTGGCTGCAAACCTGACAGCACCCGGAGCAGTTTC
CCCACAGGTCATGGTGGACGGTGTAACTGACTCAGTCATTGGGTTCAATAGTGATGTGACGGGCACCTCCATATGT
CTCTCCAGATGGCCACTACCTTGTGAGCATTAAATGATGTGAAAGGTCTTGTAAAGGGTTCAGTACATTACCATCAG
AGGAGAAATACAGGAGGCTTTTGATATTTACACAAATCTGCACATATCTGATCTGGCATTTCACCATCCTTTTAC
TGAAGCCCAACATATAACATCTACGGTAGTTCAAGCACACAACTGATGTGCTCTTTGTGGAGCTCTCTTCTGG
GAAGGTCAAGATGATAAAGAGTCTCAAGGAACCACTCAAGGCAGAAGAATGGCCTTGAACAGGAAAAACAGGCA
AATCCAGGACAGTGGCTTGTTTGGTCAATACCTGATGACACCTTCCAAGGACTCTCTCTTCATCCTAGATGGACG
ACTCAATAAATTAACCTGTGAGATCACTGAAGTTGAAAAAGGAAATACAGTCATTGAGGTTGGAGATGCCTAAAA
ACCCTACGATACAATTATTGAATGAAGCGTTTTACAATACATTGCCTTAATCCATTGTTTAAATTTACAACCTTA
ACTTTCCAAGTTTATATCCTAGTCAAACAAAATTTACTTGGTTGGTCCAAATAAAATAAATTGTTTTTACTAAG
TGACTAAGACATACACAATTAATTATATTGGTTAATTAGAAATACTCAGCACAATATTTAATGAGAAATCACATC
AGTCACAAGAATCAAATATGTAAATTATGCTTTAAACAATAAAGTAGGATTTAAATCATTTAAAAAACTAAACTG
CAGGGAATTTTCAGATGACATAAAGCATTATTTCAATTTTGAGGGTAGTTTATTCTTTTTCTCTGCTCTTTTGGTAT
GATTAAACAAGAAATACAAGGTGTTGTGGAACCTTAAATTTCTTAATTCAAAATATTCGGTCCTGTCCACTGTTT
ATAATATTTTGTGCCTTGAAGGGAATGTACAGGAGGAAAAGGAAGACTAAAGCCTGCATACTAAATGCTCTCAT
AACTATAAATCTCTTGTGTTTAAAAAACATCTCTTGACACCAATCCTGTCTTCAGCCTTTTGTTTAACCTCAAT
GAACTACCAATTGAAGGCATAAGTTGGTCTTAGGTTGTATACAGGTGTCAAACCTCCACTTGACATTTACTGTGTA
ATCTGCAGCATGCTATAGAAAGTGGGGAGGAAGGGAGGAAAAATAATTACAGTCAAATATTTGCAATCTGTCTA
CTCATTTTGTCTTCAATCACTAGAGTGCATTATGTTTTTAAATGCAAGTTTGTCTGGGATGTCAACTGCCTACAGA
TGTTTATTACTAGCAGAATAGATTATTTATTAATAGATTGTTTCTTTTCATATAGTCCAATGTTTCATCATCAGG
AACTTTTCGGTTTTTAAAAAAGAAACATTACTTTTGTCTGCTAAAGTAAACCATATATAGGGAAATTAACACCTAGG
AAAAGAAACTGGCAAGTGAATTGATGAGGTATTAGTGGCTTAGAAGAATTAGTAATATAAGTTGGGAATAAAGG
GGTAGCCCGACAGTGGTAAGTAAAAATGTAGTACTCCATTGTTTTTGTCTATTTAAATATAATGTATCAAAAACT
TTATTCTAAAATTTCCACAAATGATTCCTTTTATCCATCTTCTGTAATCCTAAAAGCATCTTCTCACTATGTGC
TGCAGTTTGAAACCTAACGAATCCTCCTACTTGAGACACTGTAGAAAAGTAAAAATTGTTGCTTCTGTTTTGTTT

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FIGURE 2161B

TAAGAGGAAATGAGAAGGCCAGCAGAAGTAGATTAAACTAGAGAGCTGGTTTATTAAAATAAGCAGATAATTAT
CCAGGCTTAAAGTAATAGCTTACATGTTTTGAAAATCCTTGTAATTATTTTGTGTTTTATTGTTGCAAAAAAATG
TTAATGGGCTGTTGAAATGACCTCCATTTACTTAAGGTAATCCAATAAGGTCTTTTTTAAATATACAAATTTTAC
TCAAGTTTAAATTGTATAAACTGCTTAGAAACCTGAAATTTTATAGTGTGTAATATCTTATGTGTATATAGCAT
TGAGCTGTGTGATACAGTAGATTTCTTCTTAGCAGAAACATGCGAGGTAGACTTAATAAAACAACAAAAATCAG
ATGTTTCTACTTATTGAATCTGCTTTACTTTTAGCAATTTTCTTCCTTGTGAACATGAACCATATAAAGTG
GTGACTTAATGATTTTCATGTAAGTCTGTCGCATACATCCTTCTTTGTAGCTTACACCATGTGGATGCTCTG
TCTGTAGACACTGCTTGATAAAAGGAGAATAAACCTCTTACATTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2162

GGATTTTTTAAAAATGAGTGACACCACATGGTTCTCTTCAAAGATGTAACTGCTAGGGTGTTTGGATGCAAGCTG
AAATCACCTTTAAGAAGCCCATGCCTACCAAGGTGGTTTTTCATGAGCCTATGCAAAAGTTTTCTGGGACTGTGGGC
TTGTAGCCCTGGATGACATTACAATACAATTGGGAAGCTGCTCATCTTCAGAGAACTTCCACCTCCACCTGGAG
AGTGTACTTTTCGAGCAAGATGAATGTACATTTACTCAGGAGAAAAGAAACCGGAGCAGCTGGCACAGGAGGAGGG
GAGAACTCCCACTTCCTACACAGGACCAAAGGGAGATCACACTACTGGGGTAGGCTACTACATGTACATTGAGG
CCTCCCATATGGTGTATGGACAAAAAGCACGCCTCTTGTCAGGCCTCTGCGAGGAGTCTCTGGAAAACTGCT
TGACCTTTTTCTACCACATGTATGGAGGGGGCACTGGCCTGCTGAGTGTATCTGAAAAAGGAAGACAGTG
AAGAGTCCCTCTTATGGAGGAGAAGAGGTGAACAGAGCATTTCCTGGCTACGAGCACTGATTGAATACAGCTGTG
AGAGGCAACACCAGATAATTTTGAAGCCATTCGAGGAGTATCAATAAGAAGTGATATTGCCATTGATGATGTTA
AATTTAGGCAGGACCCTGTGGAGAAATGGAAGATACAACCAACAATCATCAGGATATTCTGAGGACTTAAATG
AAATTGAGTATTAAAGAAATGATCTGCATTGGATTTACTAGACGAAAACCATACTCTCTTCAATCAAAATGAAAA
CAAAGCAAATGAATACTGGACAGTCTTAACAATTTTATAAGTTATAAAATGACTTTAGAGCACCTCCTTCATTA
CTTTTGCAAAAACATACTGACTCAGGGCTCTTTTTTCTTTTTGTCATATGACAACTGTTACTAGAAATACAGGCT
ACTGGTTTTGTCATAGATCATTCATCTTAATTTTGGTACCAGTTAAAAATACAAATGTACTATATTGTAGTCATTT
TAAAGTACACAAAGGGCACAATCAAATGAGATGCACTCATTTAAATCTGCATTCAGTGAATGTATTGGGAGAAA
AATAGGTCTTGCAGGTTTCCTTTTGAATTTTAAAGTATCATAAATATTTTAAAGTAAATAATACGGGGTGTCAGT
AATATCTGCAGAAATGAATGCAGTCTTTTCATGCTAATGAGTTAGTCTGGAAAAATAAAGTCTTATTTTCTATGTTT
TATTCATAGAAATGGAGTATTAATTTTTTAATTTTTTACCATATGTGATAACAAAGGATCTTTCATGAATGTCCA
AGGGTAAGTCAGTATTAATTAATGCTGTATTACAAGGCAATGCTACCTTCTTTATTTCCCTTTTGAAGTACCTTT
GAAGTCACTATGAGCACATGGATAGAAATTTAACTTTTTTTGTAAAGCAAGCTTAAATGTTTATGTATACATA
CCCAGCACTTTTATAAATGTGTTAAACAATTTTACTGATTTTTATAATAAATATTTTGGTAAGATTTTGAATAA
TATGAATTCAGGCAGATATACTAACTGCTTTTATTTACTTGTTTAGAAAATTGTATATATATGTTTGTGTATCC
TAACAGCTGCTATGAAATTATAAAATTACCTAATAAAAAATAATTTGAAAATCTTAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 2163

MQAEITFKKPMPTKVVFMSLCKSFWDGCLVALDDITIQLGSCSSSEKLPPPPGECTFEQDECTFTQEKRNRSWH
RRRGETPTS YTGPKGDHTTG VGYMYIEASHMVYGQKARLLSRPLRGVSGKHCLTFFYHMYGGGTGLLSVYLKKE
EDSEESLLWRRRGEQSISWLRALIEYSCERQHQIIFEAIRGVSIRSDIAIDDVKFQAGPCGEMEDTTQQSSGYSE
DLNEIEY

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FIGURE 2164

TGGTGGCCGGAGGCATTACCATCCTACACCCCTTCATGGCTGCCTCCAGGCCCTTCTTCAGGGACATCGTTTTCT
ACATGGTGGCTGTGTTCCCTGACCTTCCTCATGCTCTTCCGTGGCAGGGTCACCCTGGCATGGGCTCTGGGTACC
TGGGCTTGTATGTGTTCTATGTGGTCACTGTGATTCTCTGCACCTGGATCTACCAACGGCAACGGAGAGGATCTC
TGTTCTGCCCCATGCCAGTTACTCCAGAGATCCTCTCAGACTCCGAGGAGGACCGGGTATCTTCTAATAACCAACA
GCTATGACTACGGTGATGAGTACCGGCCGCTGTTCTTCTACCAGGAGACCACGGCTCAGATCCTGGTCCGGGCCC
TCAATCCCCTGGATTACATGAAGTGGAGAAGGAAATCAGCATACTGGAAAGCCCTCAAGGTGTTCAAGCTGCCTG
TGGAGTTCCTGCTGCTCCTCACAGTCCCCGTCGTGGACCCGGACAAGGATGACCAGAATGGAAACGGCCCCCTCA
ACTGTCTGCATCTGGTTATCAGCCCCCTGGTTGTGGTCTGACCCTGCAGTCGGGGACCTATGGTGTCTATGAGA
TAGGCGGCCTCGTTCCTGCTGGGTGCTGGTGGTGATCGCAGGCACAGCCTTGGCTTCAGTGACCTTTTTTGCCA
CATCTGACAGCCAGCCCCCAGGCTTCACTGGCTCTTTGCTTTCTGGGCTTTCTGACCAGCGCCCTGTGGATCA
ACGCGGCCGCCACAGAGGTGGTGAACATCTTGCGGTCCCTGGGTGTGGTCTTCCGGCTGAGCAACACTGTGCTGG
GGCTCACGCTGCTGGCCTGGGGGAACAGCATTGGAGATGCCTTCTCGGATTCACACTGGCTCGCCAGGGCTACC
CACGGATGGCGTTCTCCGCCTGCTTTGGCGGCATCATCTTCAACATCCTCGTGGGTGTGGGGCTGGGCTGCCTGC
TCCAGATCTCCCGAAGCCACACAGAAGTGAAGCTGGAGCCAGACGGACTGCTGGTGTGGGTCTTGGCAGGCGCCC
TGGGGCTCAGCCTCGTCTTCTCCCTGGTCTCAGTCCCATTGCAGTGCTTCCAGCTCAGCAGAGTCTATGGCTTCT
GCCTGCTCCTCTTCTACCTGAACTTCCTTGTCGTGGCCCTCCTCACTGAATTTGGAGTGATTACCTGAAAAGCA
TGTGACTGAAGCCGCTTAGTGCTGTGGCCTCACTGCAGGCAGGAGCCCCGCCCTCCTGCCGGGGAGGCCCAGG
GACCGGAGCATTTCTGCAAGGCCCTTGTGGGCACGAGAGTGCGGCCCTTGCTGCTGGAGATCTGAGGTCACTGCT
GTGAGCTGGGAGAACTGCTGTGTACCTCTTGCTGCCAGCACCCAAACAGCCTTGCCGTGGGGACCTTGGAACCTG
GCTTTGCTCTGGACAAAGGGTTCCAGAGAGAAGCTAGAAGTCCCCCTTGAATGACCCCCAGAGCCCCTCTGAGAA
GGGCTGGAGTTTGGGGGAAGGGGATGGCTGGATGTGCTCCAGGCCATGCTGGAGGTACCCCCGAGGCACAGGCAC
TGCCCGTTCCCCTTGCTGGGCTTCAAGGCCTTCTGGCACCTTCTCAGGACACAAGTGGCTGCCCAACCCTGACTC
AGAGAATGAGGGTGGCTTGGACCCCTGGGAATCAGGCCGCCGAGGGCTGAGCTCCAGAGCCGCACCATCTGCCAC
AAACAGAATTCGAGACATACTTAATTTGAATTTCTCCTTGCCACGTTAATAAAGCCAAAAGCAGCGGGTGCTAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 2165

MAASRPFFRDIVFYMVAVFLTFMLFRGRVTLAWALGYLGLYVFYVVTVILCTWIIYQRQRGSLFCMPVTPPEIL
SDSEEDRVSSNTNSYDYGDEYRPLFFYQETTAQILVRALNPLDYMKWRRKSAYWKALKVFKLPVEFLLLLTVPVV
DPDKDDQNWKRP LNCLHLVISPLVVVLTTLQSGTYGVYEIGGLVPVWVVVVIAGTALASVTFFATSDSQPPRLHWL
FAFLGFLTSALWINAAATEVNVILRSLGVVFRLSNTVLGLTLLAWGNSIGDAFSDFTLARQGYPRMAFSACFGGI
IFNILVGVLGCLLQISRSHTEVKLEPDGLLVWVLAGALGLSLVFSVSVPLQCFQLSRVYGFCLLLFYLNFLVV
ALLTEFGVIHLKSM

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FIGURE 2166A

AAGACAACGTCAGTACTAGCAGTTTCTGGAGCTACTTGCCAAGGCTGAGTGTGAGCTGAGCCTGCCCCACCACCAAGA
TGATCCTGAGCTTGCTGTTTACGCTTGGGGGGCCCCCTGGGCTGGGGGCTGCTGGGGGCATGGGGCCAGGCTTCCA
GTACTAGCCTCTCTGATCTGCAGAGCTCCAGGACACCTGGGGTCTGGAAGGCAGAGGCTGAGGACACCAGCAAGG
ACCCCGTTGGACGTAAGTGGTGGCCCTACCCAATGTCCAAGCTGGTACCTTACTAGCTCTTTGCAAAACAGAGA
AATTCCTCATCCACTCGCAGCAGCCGTGTCCGAGGGAGCTCCAGACTGCCAGAAAGTCAAAGTCATGTACCGCA
TGGCCCCACAAGCCAGTGTACCAGGTCAAGCAGAAGGTGCTGACCTCTTTGGCCTGGAGGTGCTGCCCTGGCTACA
CGGGCCCCAACTGCGAGCACCACGATTCCATGGCAATCCCTGAGCCTGCAGATCCTGGTGACAGCCACCAGGAAC
CTCAGGATGGACCAGTCACTTCAAACCTGGCCACCTTGCTGCAGTGATCAATGAGGTTGAGGTGCAACAGGAAC
AGCAGGAACATCTGCTGGGAGATCTCCAGAATGATGTGCACCGGGTGGCAGACAGCCTGCCAGGCCTGTGGAAAG
CCCTGCCTGGTAACCTCACAGCTGCAGTGATGGAAGCAAATCAAACAGGGCACGAGTTCCCTGATAGATCCTTGG
AGCAGGTGCTGCTACCCACGTGGACACCTTCTTACAAGTGCAATTCAGCCCCATCTGGAGGAGCTTTAACCAA
GCCTGCACAGCCTTACCCAGGCCATAAGAAACCTGTCTCTTGACGTGGAGGCCAACCGCCAGGCCATCTCCAGAG
TCCAGGACAGTGCCGTGGCCAGGGCTGACTTCCAGGAGCTTGGTGCCAAATTTGAGGCCAAGGTCCAGGAGAACA
CTCAGAGAGTGGGTGAGCTGCGACAGGACGTGGAGGACCGCCTGCACGCCAGCACTTTACCTTGCACCGCTCGA
TCTCAGAGCTCCAAGCCGATGTGGACACCAAATGGAAGAGGCTGCACAAGGCTCAGGAGGCCCCAGGGACCAATG
GCAGTCTGGTGTGGCAACGCCTGGGGCTGGGGCAAGGCCTGAGCCGGACAGCCTGCAGGCCAGGCTGGGCCAGC
TGCAGAGGAACCTCTCAGAGCTGCACATGACCACGGCCCCGAGGGAGGAGGAGTTGCAGTACACCTGGAGGACA
TGAGGGCCACCCTGACCCGGCACGTGGATGAGATCAAGGAAGTGTACTCCGAATCGGACGAGACTTTTCGATCAGA
TTAGCAAGGTGGAGCGGCAGGTGGAGGAGCTGCAGGTGAACCACAGGCGCTCCGTGAGCTGCGCGTGATCCTGA
TGGAGAAGTCTCTGATCATGGAGGAGAACAAGGAGGAGGTGGAGCGGCAGCTCCTGGAGCTCAACCTCACGCTGC
AGCACCTGCAGGCTGGCCATGCCGACCTCATCAAGTACGTGAAGGACTGCAATTGCCAGAAGCTCTATTTAGACC
TGGACGTATCCGGGAGGGCCAGAGGGACGCCACGCGTGCCCTGGAGGAGACCCAGGTGAGCCTGGACGAGCGGC
GGCAGCTGGACGGCTCCTCCCTGCAGGCCCTGCAGAACGCCGTGGACGCCGTGTGCTGGCCGTGGACGCGCACA
AAGCGGAGGGCGAGCGGGCGCGGGCGGCCACGTGCGGGCTCCGGAGCCAAGTGCAGGCGCTGGATGACGAGGTGG
GCGCGCTGAAGGCGGCCGCGGGCCGAGGCCCCGACGAGGTGCGCCAGCTGCACAGCGCCTTCGCCGCCCTGCTGG
AGGACGCGCTGCGGCACGAGGCGGTGCTGGCCGCGCTCTTCGGGGAGGAGGTGCTGGAGGAGATGTCTGAGCAGA
CGCCGGGACCGCTGCCCCCTGAGCTACGAGCAGATCCGCGTGGCCCTGCAGGACGCCGCTAGCGGGCTGCAGGAGC
AGGCGCTCGGCTGGGACGAGCTGGCCGCCGAGTGACGGCCCTGGAGCAGGCCTCGGAGCCCCCGCGGCCGCGCAG
AGCACCTGGAGCCCAGCCACGACGCGGGCCGCGAGGAGGCCGCCACCACCGCCCTGGCCGGGCTGGCGCGGGAGC
TCCAGAGCCTGAGCAACGACGTCAAGAATGTGGGGCGGTGCTGCGAGGCCGAGGCCGGGGCCGGGGCCGCTCCC
TCAACGCCTCCCTTGACGGCTCCACAACGCACTCTTCGCCACTCAGCGCAGCTTGGAGCAGCACCAGCGGCTCT
TCCACAGCCTCTTTGGGAACCTCCAAGGGCTCATGGAAGCCAACGTGACCTGGACCTGGGGAAGCTGCAGACCA
TGCTGAGCAGGAAAGGGAAGAAGCAGCAGAAAGACCTGGAAGCTCCCCGGAAGAGGGACAAGAAGGAAGCGGAGC
CTTTGGTGGACATACGGGTACAGGGCCTGTGCCAGGTGCCTTGGGCGCGCGCTCTGGGAGGCAGGATCCCCCTG
TGGCCTTCTATGCCAGCTTTTCAGAAGGGACGGCTGCCCTGCAGACAGTGAAGTTCAACACCACATACATCAACA
TTGGCAGCAGCTACTTCCCTGAACATGGCTACTTCCGAGCCCCCTGAGCGTGGTGTCTACCTGTTTGCAGTGAGCG
TTGAATTTGGCCCAGGGCCAGGCACCGGGCAGCTGGTGTGGAGGTCACCATCGGACTCCAGTCTGTACCACTG
GGCAGGGGAGTGGAAAGCACAGCAACGGTCTTTGCCATGGCTGAGCTGCAGAAGGGTGAGCGAGTATGGTTTGAGT
TAACCCAGGGATCAATAACAAAGAGAAGCCTGTGCGGCACTGCATTTGGGGGCTTCTGATGTTTAAAGACCTGAA
CCCCAGCCCCAATCTGATCAGACATCATGGACTCGCCAGCTCTCCTCGGCCCTGGGGCTCTGGCCAAGGATGGGC
TGGAGGTCAATCAGTTGGTCTGTCTCTTCCCTGGAACCTTCTGCAAAGATGGTGTGGTGTACGTGGCTTCCCTG
TAACCACATGGGGCTTGGCCATTTCTCCATGATGAGAAGGACTGGAATGCTTCTCCGGGCAGGACATGGTCTTAG
GAAGCCTGAACCTTGGCTTGGCATGCCTTCTCAGACAGCACGGCCTGGGCTCCAACCTCTTACCACACCCTGTAT
TCTACAACCTCTTTGGTGTGGTGTCTCTTCCCTGTTGGTGGAAACTTCTGTACAACACTTTAACTTTTCTCTTGCT
TCTCTTCTCTTCTCCCTTATCGTATGATAGAAAGACATTCTTCCCCAGGAGGAATGTTTAAATGGAGGCAACA
TTTGGCCAACATTGGAAGCACTAGAGGGCAATGGGATTAAACCAACCTGCTTGGTCTCTATTAGTCAGTAATG
AAGACGACAGCCTGGCCAACCAAGGGAAAGGAAATTAGTATCTTTAGTTTCACTTCTTGTAGGATATGGTT
TAGCTGTGCCCCACCTAAAATATCATCTTGAATTGTAATCCCTATAATCCCCACATCAAGGGAGAGATCAGGTG

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FIGURE 2166B

GAGGTAATTGGATCTTGGGGGCGGTTCCCCCATGCTGTTCTTGTGATAGTTCTCACGAGATCTGATGATTTTATA
AGTTTGATAGTTCCTCCTGTGTTCACTCTCCTTCCTGCCACCTTGTGAAGATGCCTTGGTTCCTCTTCACTGTCT
GCCATGATTGTAAGTTTCCTGAGGCCTCCCCAGCCATGTGGAACAGTGAGTCAATTAAACCTCTTTCCTTTATAA
ATT

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FIGURE 2167

MILSLLFSLGGPLGWLLGAWAQASSTSLSDLQSSRTPGVWKAEDTSKDPVGRNWCPYPMSKLVTLALCKTE
KFLIHSQQPCPQGAPDCQKVVMYRMAHKPVYQVKQKVLTSRAWRCCPGYTGPNCHEHDSMAIPEPADPGDSHQE
PQDGPVSFKPGHLAAVINEVEVQQEQEHLGLQNDVHRVADSLPGLWKALPGNLTAAMEANQTGHEFPDRSL
EQVLLPHVDTFLLQVHFSPWRSFNQSLHSLTQAIRNLSLDVEANRQAI SRVQDSAVARADFQELGAKFEAKVQEN
TQRVGQLRQDVEDRLHAQHFTLHRSISELQADVDTKLKRLHKAQEAPGTNGSLVLATPGAGARPEPDSLQARLGQ
LQRNLSELHMTTARREEELQYTLEDMRATLTRHVDEIKELYSEDETDFDQISKVERQVEELQVNHTALRELRVIL
MEKSLIMEENKEEVERQLLELNLTLQHLQGGHADLIKYVKDCNCQKLYLDLDVIREGQRDATRALEETQVSLDER
RQLDGSSLQALQNAVDASLAVDAHKAEGERRAATSRLRSQVQALDDEVGALKAAAAEARHEVRQLHSAFAALL
EDALRHEAVLAALFGEEVLEEMSEQTPGPLPLSYEQIRVALQDAASGLQEALGWDELAARVTALEQASEPPRPA
EHLEPSHDAGREEAATTALAGLARELQSLSDNVKNVGRCCAEAGAGAASLNASLDGLHNALFATQRSLEQHQR
FHSFLGNFQGLMEANVSLDLGKLQTMLSRKGGKQKQDLEAPRKRDKKEAEPLVDIRVTGPVPGALGAALWEAGSP
VAFYASFSEGTALQTVKFNTTYINIGSSYFPEHGYFRAPERGVYLFVSVVEFGPGPGTGQLVFGGHHRTPVCTT
GQSGSGSTATVFAMAELQKGERVWFELTQGSITKRSLSGTAFGGFLMFKT

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FIGURE 2168

CCTGTCTCTCTTCGGGTCTCGGGCCCTTGGGCGCAGCGGGGCGCGGCCATGGCGAAGGCGAAGAAGGTCGGGGC
GCGAAGGAAGGCCTCCGGGGCGCCGGCGGGAGCGCGAGGGGGCCCGGCGAAGGCCAACTCCAATCCGTTCGAGGT
GAAAGTTAACAGGCAGAAAGTTCCAGATCCTGGGCGGGAAGACGCGCCACGACGTGGGACTGCCCGGGGTGTCTCG
CGCACGGGCCCTCAGGAAGCGTACACAGACTTTACTAAAAGAGTACAAAGAAAGGGATAAATCCAATGTATTACAG
AGATAAACGCTTCGGAGAATACAACAGCAACATGAGCCCCGAGGAGAAGATGATGAAGAGGTTTGTCTGGAACA
GCAGCGACATCATGAGAAAAAAGCATCTACAATCTAAATGAAGATGAAGAATTGACTCATTATGGCCAGTCTTT
GGCAGACATCGAGAAGCATAATGACATTGTGGACAGTGACAGCGATGCTGAGGATCGAGGAACGTTGTCTGCTGA
GCTGACTGCTGCCCCTTTGGAGGAGGCGGTGGGCTCCTTCACAAGAAGACTCAACAGGAAGGCGAGGAGCGGGA
GAAACCGAAGTCCCGGAAAGAGCTGATTGAAGAGCTCATTGCCAAGTCAAAACAAGAGAAGAGGGAGAGACAAGC
TCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAAAGAAATTCAGACTCTCCTGTCCCA
CAAACTCCCAAGTCAGAGAACAGAGACAAAAGGAAAAACCCAAGCCCGATGCATATGACATGATGGTTCGCGA
GCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGCAGAATTGGCAAAGGAAGAGCAGGA
GCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGATGAGGATGAAAATGTTAAGAAACC
AAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGATGACAGGCGTTTGCTTTCTTACAA
AGATGGAAAGATGAATGTGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGAAGCCAGTGACCCTGAGAGCAACGA
GGAAGAAGGTGACAGTTCAGGCGGGGAGGACACAGAGGAGAGCGACAGCCAGATAGCCACTTGGACCTGGAATC
CAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCAGACTCCTGGGAAAGGTTGATAAG
CGGCAAGGAAAGAGCTGGAAAAGCTACCAGAGACGAGCTGCCCTACACGTTTCGCAGCCCTGAATCCTATGAGGA
ACTGAGATCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGTGGAGAGAATTCAGAAGTGCAACCA
CCCAGTCTCGCAGAAGGAAACAAAGCAAAATTAGAAAACTGTTTGGCTTTCTTTTGGAAATACGTTGGCGATTT
GGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCACTTATATCATCTTTGCCAGATGTT
TCCTGAATCTGCAAGTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCATGAGATGGAAGAAATGATTGAGAC
CAAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTTATTTGAAAATCACTGGGCTGCTATTTCCAACCTC
CGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCCTCAGTCAGCTGCTCACCAAGTGCCCCATCCTGTC
CCTCCAGGACGTGGTGAAGGGCCTGTTTCGTGTGCTGCCTGTTCTGGAGTATGTGGCTTTGTCCCAGAGGTTTAT
ACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAAACTCCAAACAAAGCAAGCCAAGGTTCCACTCT
GGTGCACCCCTTTCAGAGCGCTTGGGAAGAACTCGGAAGTCTCGTGGTGTCTGCTAGAGAGGATGTGGCCACGTG
GCAGCAGAGCAGCCTCTCCCTCCGCTGGGCGAGTAGACTGAGGGCCCCAACTTCGACAGAGGCCAATCACATCCG
ACTGTCTCTGCTGGCTGTGGGCCTGGCCCTGCTGAAGCGCTGCGTGCTCATGTACGGGTCCCTGCCATCCTTCCA
CGCCATCATGGGGCCTCTCCAAGCCCTCCTCACGGATCACCTGGCGGACTGCAGCCACCCGCAGGAGCTCCAGGA
GCTGTGTCAGAGCACACTGACCGAAATGGAAAGCCAGAAGCAGCTCTGCCGCGCCTGACCTGTGAGAAGAGCAA
GCCTGTCCCACTGAAGCTTTTACACCCCCGGCTGGTCAAAGTCTCGAGTTTGGAAAGAAAACAAGGCAGTAGTAA
GGAGGAACAGGAAAGGAAGAGGCTGATCCACAAACACAAGCGTGAATTTAAAGGGGCCGTTTCGAGAAATCCGCAA
GGACAATCAGTTCCTGGCGAGGATGCAACTCTCAGAAATCATGGAACGGGATGCGGAAAGAAAGCGGAAAGTAAA
GCAGCTTTTTAACAGCCTGGCTACACAGGAAGGCGAATGGAAGGCTCTGAAGAGGAAAAGTTCAAAAAATAAAT
TACATTTTATAAATAAGCTCCCCCACCCTGCTGCGGTTTTGTTTCTGTAAACGTCACCTGATGAAATAG
AATGAATCCTGAAATGCACCTCTGGGATCGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTTCACTGCGTCTG
GACAAGCCTCATGGGACTGGGGATTCTGGCCAGTGTAATTTCTGTCAACCACGGACGTTTGCCTTCATGTGTAG
AATTTACTGTTGTTATGCAAATTATATTTTCAATTATAA

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FIGURE 2169

AGAAGAAGCTGGCCAAGGATATGGGAGCAACCACCATGGACCAGAAGTCTCTCTGGGCAGGTGTAGTGGTCTTGC
TGCTTCTCCAGGGAGGATCTGCCTACAACTGGTTTGCTACTTTACCAACTGGTCCCAGGACCGGCAGGAACCAG
GAAAATTCACCCCTGAGAATATTGACCCCTTCTATGCTCTCATCTCATCTATTTCATTGCGCCAGCATCGAAAACA
ACAAGGTTATCATCAAGGACAAGAGTGAAGTGATGCTCTACCAGACCATCAACAGTCTCAAAACCAAGAATCCCA
AACTGAAAATTCTCTTGTCCATTGGAGGGTACCTGTTTGGTTCCAAAGGGTTCCACCCTATGGTGGATTCTTCTA
CATCACGCTTGGAATTCATTAACCTCCATAATCCTGTTTCTGAGGAACCATAACTTTGATGGACTGGATGTAAGCT
GGATCTACCCAGATCAGAAAGAAAACACTCATTTCCTGCTGCTGATTTCATGAGTTAGCAGAAGCCTTTGAGAAGG
ACTTCACAAAATCCACCAAGGAAAGGCTTCTCTTGACTGCGGGCGTATCTGCAGGGAGGCAAATGATTGATAACA
GCTATCAAGTTGAGAACTGGCAAAGATCTGGATTTTCATCAACCTCCTGTCCTTTGACTTCCATGGGTCTTGGG
AAAAGCCCTTATCACTGGCCACAACAGCCCTCTGAGCAAGGGGTGGCAGGACAGAGGGCCAAGCTCCTACTACA
ATGTGGAATATGCTGTGGGGTACTGGATACATAAGGGAATGCCATCAGAGAAGGTGGTCATGGGCATCCCCACAT
ATGGGCACTCCTTCACACTGGCCTCTGCAGAAACCACCGTGGGGGCCCTGCCTCTGGCCCTGGAGCTGCTGGAC
CCATCACAGAGTCTTCAGGCTTCTTGGCCTATTATGAGATCTGCCAGTTCCTGAAAGGAGCCAAGATCACGCGCC
TCCAGGATCAGCAGGTTCCCTACGCAGTCAAGGGGAACCAAGTGGGTGGGCTATGATGATGTGAAGAGTATGGAGA
CCAAGGTTCAAGTCTTAAAGAATTTAAACCTGGGAGGAGCCATGATCTGGTCTATTGACATGGATGACTTCACTG
GCAATCCTGCAACCAGGGCCCTTACCCTCTTGTCCTCAAGCAGTCAAGAGAAGCCTTGGCTCCTTGTGAAGGATTA
ACTTACAGAGAAGCAGGCAAGATGACCTTGCTGCCTGGGGCCTGCTCTCTCCAGGAATTCTCATGTGGGATTCC
CCTTGCCAGGCTGGCCTTTGGATCTCTCTTCCAAGCCTTTCCTGACTTCCTCTTAGATCATAGATTGGACCTGGT
TTTGTCTTCTGCTGAGCTGTTGACTTGTGTCCTGAAGTACAATAAAAAAATTCATTTGCTCCAGTA

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FIGURE 2170

MDQKSLWAGVVVLLLLQGGSAYKLVCYFTNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNKVIIKDKSEVM
LYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVDSSSRLEFINSIILFLRNHNFDGLDVSWIYPDQKENTHF
TVLIHELAEAFQKDFTKSTKERLLLTAGVSAGRQ MIDNSYQVEKLAKDLDFINLLSFDFHGSWEKPLITGHNSPL
SKGWQDRGPSSYYNVEYAVGYWIHKGMPSEKVVMGIPTYGHSFTLASAETTVGAPASGPGAAGPITESGFLAYY
EICQFLKGAKITRLQDQQVPYAVKGNQWVGYYDDVKSMETKVQFLKNLNLGGAMIWSIDMDDFTGKSCNQGPYPLV
QAVKRSLGSL

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FIGURE 2171A

AGAGTCCTGGATGAGACGGCTCGAGAGCGTGCCCGGCTGCAGATAGAGATTGGGAAGCTGAGGGCAGAGTTGGAC
GAGGTCAACAAGAGCGCCAAGAAGAGGGAGGGCGAGCTTACGGTGGCCCAGGGCCGTGTGAAGGACCTGGAGTCC
CTGTTCCACCGGAGCGAGGTGGAGCTGGCAGCTGCCCTCAGCGACAAGCGCGGCCTGGAGAGTGACGTGGCTGAG
CTGCGGGGCCAGCTGGCCAAGGCCGAGGACGGTCATGCAGTGGCCAAAAAGCAGCTGGAGAAGGAGACGCTGATG
CGTGTGGACCTGGAGAACCGCTGCCAGAGCCTGCAGGAGGAGCTGGACTTCCGGAAGAGTGTGTTTCGAGGAGGAG
GTGCGGGAGACGCGGCGGCGGCACGAGCGGCGCCTGGTGGAGGTGGACAGCAGCCGGCAGCAGGAGTACGACTTC
AAGATGGCACAGGCGCTGGAGGAGCTGCGGAGCCAGCAGCAGCAGCAAGTGCAGCTCTACAAGCTGGAGCTGGAG
CAGACCTACCAGGCCAAGCTGGACAGCGCCAAGCTGAGCTCTGACCAGAACGACAAGGCGGCCAGTGCGGCTCGC
GAGGAGCTGAAGGAGGCCCGCATGCGCCTGGAGTCCCTCAGCTACCAGCTCTCCGGCCTCCAGAAGCAGGCCAGT
GCCGCTGAAGATCGCATTCGGGAGCTGGAGGAGGCCATGGCCGGGGAGCGGGACAAGTTCCGGAAGATGCTGGAC
GCCAAGGAGCAGGAGATGACGGAGATGCGGGACGTGATGCAGCAGCAGCTGGCCGAGTACCAGGAGCTGCTGGAC
GTGAAGCTGGCCCTGGACATGGAGATCAACGCCTACCGGAAGCTCCTGGAGGGCGAGGAGGAGACCTGAAGCTG
TCCCCCAGCCCATCTTCGCGCGTCCCGTCTCACGAGCCACCTCGAGCAGCAGCGGCAGCTTGTCCGCCACCGGG
CGCCTGGGCGCAGTAAGCGGAAGCGCTGGAGGTGGAGGAGCCCTTGGCAGCGGCCCAAGCGTCTTGGGCACGGG
CACGGGTGGCAGCGGTGGCTTCCACCTGGCCAGCAGGCCTCGGCCTCGGGCAGCGTACATCGAGGAGATCGAC
CTGGAGGGCAAGTTTGTGCAGCTCAAGAACAACCTCGGACAAGGATCAGTCTCTGGGGAAGTGGAGAATCAAGAGG
CAGGTCTTGGAGGGGGAGGAGATCGCCTACAAGTTACGCCCCAAGTACATCCTGCGGGCCGGCCAGATGGTCACG
GTGTGGGCAGCTGGTGCAGGGGTGGCCACAGCCCCCTCGACGCTGGTGTGGAAGGGCCAGAGCAGCTGGGGC
ACGGGCGAGAGCTTCCGCACCGTCTTGGTTAACCGGATGGCGAGGAAGTGGCCATGAGGACTGTGAAGAAGTCC
TCGGTGATGCGTGAGAATGAGAATGGGGAGGAAGAGGAGGAGGAAGCCGAGTTTGGCGAGGAGGATCTTTTCCAC
CAACAGGGGGACCCGAGGACCACCTCAAGAGGCTGCTACGTGATGTGAACCCACACTCCTCATCCACACACCTTT
CTTTACCCAGAGCCACTGAAAACATATTTTTTATCATTTGGCTTTCTTTAGTTCTTGATACATTTCTAGAGAATTC
TAAGCGAACTGCCAGAACGTGTGGGTGGGTCTCCCCCAGCCCTCCCTCCTGGCGGGTCTCCTCCAGCCTCACTTC
GCTGCCACTTCGCCGCTGCCCCGGAGACTTTTCAATCCCACCCCACTCCTCATCTCACCATTTGGTCAAATTTGGA
AGCCCAGGGCCAGGACCCGGAGGTTTAGAAGATGCTTGGGCTTGGAGGGAGGAGGGCCGGCGAGGCTAGCGAGGG
GACAGGAGACGGCCCTGCTGCGGACGGAGCGCGGAACTGCGTAGGAATTCAGTGGTGGTGGGTTTTTTTAAGGC
TTTCTACAAAACCAAATTCAGAATCCAGGCGTCGACCTGGTGGGGCCCCGGGGCAAGCCTGCATTCTGGCTGCCCCA
GCTTCGGACAGCGGGAACCTCCTCAGGCAGCCACGCAGCGGGTGTGGGCCAGCATGGGGATGGCGTGGCCCCAGGG
GGGTTTTTACTCCGCTGCCTGGGCTTCCAGATTCCCGTTCTGGCAGCGACCGGCCGGGTTTTCTCGGACCGTTGAC
TTTATTTGGGGGAGTTTTCCCGCAGTTCAGTTCCTGACTGTGCAAGGCCAACAGGGCAGGGGAGGGGAAGACCTG
GGGAAGGAAGAATGAGGACACAGTCCCGTCTGAAGACCTGTGCAACAATAAGCAGGGAGGGGAGATGTGGAGGG
GACACATCTGGTTGCCTTGGAGGCAGAAGCTGTGAGTTTCAAGACAGCTGTCTGCAGGGAAACGCCACCATGTTGA
CCCTCTGGAGGAGAGCGCTGTGGAGCCCCCTCCCGTGTTCAGCTCCGTCTGCCCTGTGCCATATATACATGCG
TCTATCATACTGTGTCTTTATCTGTGATTTTTCTCGCTGAAACATGTTTCTCAGACAGCCAAGGCCACCTGACTC
CTATCAGCAGCACCCCAAGCCCCCTCAGTCCAGCTTCCCAATGCCTGGCACCCCCCTCGGCAATAGCTCACCGTTT
ACACCCCTCCCTCATAGATACACAGAAGTTATTTTTTTAATGGATATTTATTTTTTTTACATTGGTCACTACACAGG
TCAGGGAGCTCACGCCAGGGCCTTGAGGACAGGCTGACCCTCCTCCCCGGGTGGCGTGGGGCTGGGGCACCCCC
GACGGCAGAGCCTCCTTCAGAAAGTGAGCTCAAGTCTTAAAGACACCAAACTGAGCCATGGGCACGCGCCGTC
TCCGGGCCATGGCGTTCACTGCAGGGCGGGGGCGGCACCGCTCCCTGTGACTGCATCCCGCCTCCCTGGGGACC
TGCTGTGGCAGGAAGGAATGGGGGGCCCCAGCCAGGCCGGGAAGGAGCCAGCGGCCGACAAAGCAGAAACACC
GCTGCTCCACGTAGCCCTGCTGGCTGTCTTGTCTCAGAAAGTCCCGGTCCCATGTAGATAGAGCCCGGCGGAT
CTTACCAAAGCATTTTCTCCTGGAGGCTACGCCGCTTGGTGTCTCCAGTGAGGCGGCTGGTAGGGAGCTTTGCCT
GCCCCGGGGATACCCTCTACCAGCCGCTGGAAGTGGGAATGCTGGCGACAGACTGTGTCTGTTTCCACCTTCAT
AGCAGGAATCACCCGGACCCGACTGGCTGGGCTTCGTGCTAGCGAGGGTTTTCTGGGGGTGGGTCTTGGTGATCT
TGTCCTATGGGGATCTCTGCAGTGGTCTCAGCCACATCCTAGTATATTTTGGCTCTGGAGGAGCAAAGCTGTATC
CTGGAGTTGGTCTGTGATTTGCCGACAGACTTGACGGCTGGGCTCAGCAAAGTCCCCCCCCAAAACCCGAGGTCC
TCATGTCCAGACGCTGCCAGTCTGTCTGAAAACAGCAGCCCCAGGCCACAGAACCCCCCACCCTACATTTG
CCTTGGGTGGAGCTGGGGGTGGTCCTAGGACTGCGGGTGCCCTTAGCTGAAGGGGGCCGCGAGAAGCGTGAGCTG

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FIGURE 2171B

GGCCGCCTGTGGGTCATTGGAGGTTTCATTGAGAATTGAGTCCTTTGGAAAGACTAAGAAAATCAAATTTTTAAAA
GTTATTTATGGCCTGGGAAACAATTTGCATTTGTCCCAAATACGCTTAGCTGTGTGCCGCTTAGAACGATGAGA
AACCATCCCTCTGTGTAAGCCCGTGCCGTGTGACTCGAAGCCTAGCGCCCTCCCTGCCAAGCATCAGACGCCACC
CAGCCCTGGGGGAGGCCACGCCTGCTGGACCAACGCGGGTTCTGGGGTGCACAGCGCCAGGTTAACGCTGAAGC
CCCCGCTGAGCCCAAGAGCCGGGAGGCCTGCGGGCTGACCCAGAATCCGATCATGCACCTGTCCTCATGCCA
CTTTGGCTGGGGTTGGTCTGAAGCCTGCACGCGGCAGTTCTTTGTTAAAGATCTGAGGGACTCGTCAGTCC
GTGTCGCCGCCCTGCAGCCTCTTCCAAGCCCTGCGTCCAGCGAGCGTCACAGCACAACCTGCAAAAACGGAGCT
GGGCTGCAGCTGGGGCTGGCATGGACTTTCATTTAGAGATTGCGTTTTTAAGAAGATGCATGCCTAGCGTGTTT
TTTTTTTTTCCAATGATTGTAAATATACATTTTATGACTGGAACTTTTTTGTACAACACTCCAATAAA

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FIGURE 2172

RVLD ETARERARLQIEIGKLRAELDEVNKS AKKREGELTVAQGRVKDLES LFHRSEVELAAALSDKRGLES DVAE
LRAQLAKAEDGHAVAKKQLEKETLMRVDLENRCQSLQEELDFRKSVFEEVRETRRRHERRLVEVDSSRQQEYDF
KMAQALEELRSQHDEQVRLYKLELEQTYQAKLDSAKLSSDQNDKAASAAREELKEARMRLESLSYQLSGLQKQAS
AAEDRIRELEEEAMAGERDKFRKMLDAKEQEMTEMRDVMQQQLAEYQELLDVKLALDMEINAYRKLEGEESLKL
SPSPSSRVTVSRATSSSSGSLSATGRLGRSKRKRWRWRSPWQRPKRP GHGHGWQRWLPPGPAGLGLGQRHIEEID
LEGKFVQLKNNSDKDQSLGNWRIKRQVLEGE EIAYKFTP KYILRAGQMTVWAAGAGVAHSPPSTLVWKGQSSWG
TGESFRITVLVNADGEEVAMRTVKKSSVMRENENGE EEEEEAEFG EEDLFHQQGDPRITTSRG CYVM

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FIGURE 2173

CTTATTATGACTGAACAAGCAAGAAGATATCTGAGTACTTACACAGCTACCAGTAGTACTTCAAGAGCTCTCATA
CTGTAATTGTTATTATAAAATTGATGATATGCCCCACTCCCTTACTGCAGTCTCTACTAAATTAGGTTGCAGTGAAA
TTTTTCTCAATTAGTTGTTTTTAAAGTTGTAAGATAGCCCTTTTAATACAGCATCTTTTTTCTATTCTATATAGT
AGGCAGAAAAGCTAGTAAGTCACTTAAGGGGTAGATAGTTTCATAGTTTATTTTTTAAGAGATGAGATTTTTAAAA
ATTGTTTTTAAAGAACAAGATGGGAAAATAATAGAATGTTTCATGGATTTCTAAAAGTAAATTCTCATATATTTTC
TTCACAAGATATATGTTGCTACTCTCTTGATGCTGCAGTTTTGTTATAGATAGGTGTATGAGTATATATGATTTTC
TGAAATTAGTCTATGTATGGAAAGCACACATGATTTTATGAAGTACTTTTGCCCATGTGCTGATTTACTTAGGCT
ACCATTTACAAAGAAACACATTGAAAAGGAATTTAAAGGAAGGATAGAAAGTTGCACTACTAATTTTTTGTTTTT
TTTTTCAGAAGCAGTAAATTAACACTACAGTGTTAAATGTATTTATTTGAGCATAGTACTGAAAACAAAAAGCATT
CAAAAAAGAGTTTTTCTTTATTAGTAAATAGTATTTTCTTAATCTCAGAGGAGCTGAGAGTTTTGTTGAATGTA
TTGTACAGTATGTAGGAGCAGGAGAACTTTGTAAATTGGAAAGAAGTCTGTTTTTATAATTTATTTTTATTTTAA
AAGCTT

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FIGURE 2174

LIMTEQARRYLSTYTATSSTSRALIL

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FIGURE 2175A

GGGAGCGCGGGGAGCGCGGGCCGGCGGGCGAGGGAGGACGGGGGCGCAGACGGCCGGCGCGGGCGCGGGCTAC
CATGGGCGTGCGGTGAGCAGCCGCTCGGGACGACTTCCTCGGCTGCGCGGGCGCTCGCGCGGAGCTCCCCGGCCGG
CGGTGCGTCCCCACGGTCACCATGAAAGACGACTTCGCAGAGGAGGAGGAGGTGCAATCCTTCGGTTACAAGCGG
TTTGGTATTTCAGGAAGGAACACAATGTACCAAATGTAAAAATAACTGGGCACTGAAGTTTTCTATCATATTATTA
TACATTTTGTGTGCCTTGCTAACAATCACAGTAGCCATTTTGGGATATAAAGTTGTAGAGAAAATGGACAATGTC
ACAGGTGGCATGGAAACATCTCGCCAAACCTATGATGACAAGCTCACAGCAGTGGAAAGTGACCTGAAAAAATTA
GGTGACCAAACCTGGGAAGAAAGCTATCAGCACCAACTCAGAAGCTCTCCACCTTCAGATCAGACATTCTAGATCTC
CGTCAGCAACTTCGTGAGATTACAGAAAAACCAGCAAGAACAAGGATACGCTGGAGAAGTTACAGGCGAGCGGG
GATGCTCTGGTGGACAGGCAGAGTCAATTGAAAGAACTTTGGAGAATAACTCTTTCTCATCACCCTGTAAAC
AAAACCTCCAGGCGTATAATGGCTATGTCACGAATCTGCAGCAAGATACCAGCGTGCTCCAGGGCAATCTGCAG
AACCAAATGTATTCTCATAATGTGGTCATCATGAACCTCAACAACCTGAACCTGACCCAGGTGCAGCAGAGGAAC
CTCATCAGCAATCTGCAGCGGTCTGTGGATGACACAAGCCAGGCTATCCAGCGAATCAAGAACGACTTTCAAAT
CTGCAGCAGGTTTTCTTCAAGCCAAGAAGGACACGGATTGGCTGAAGGAGAAAGTGACAGCTTGACAGACTG
GCTGCCAACAACTCTGCGTTGGCCAAAGCCAACAACGACACCCTGGAGGATATGAACAGCCAGCTCAACTCATT
ACAGGTTCAGATGGAGAACATCACCCTATCTCTCAAGCCAACGAGCAGAACCTGAAAGACCTGCAGGACTTACAC
AAAGATGCAGAGAATAGAACAGCCATCAAGTTCAACCAACTGGAGGAACGCTTCCAGCTCTTTGAGACGGATATT
GTGAACATCATTAGCAATATCAGTTACACAGCCACCCTGCGGACGCTGACCAGCAATCTAAATGAAGTCAGG
ACCCTTGCACAGATACCCTTACCAAACACACAGATGATCTGACCTCCTTGAATAATACCCTGGCCAACATCCGT
TTGGATTCTGTTTCTCTCAGGATGCAACAAGATTTGATGAGGTGAGGTTAGACACTGAAGTAGCCAACCTTATCA
GTGATTATGGAAGAAATGAAGCTAGTAGACTCCAAGCATGGTCAGCTCATCAAGAATTTTACAATACTACAAGGT
CCACCGGGCCCCAGGGGTCCAAGAGGTGACAGAGGATCCAGGGACCCCCCTGGCCCAACTGGCAACAAGGGACAG
AAAGGAGAGAAGGGGGAGCCTGGACCACCTGGCCCTGCGGGTGAGAGAGGCCCAATTGGACCAGCTGGTCCCCC
GGAGAGCGTGGCGGCAAAGGATCTAAAGGCTCCAGGGCCCCCAAAGGCTCCCGTGGTTCCCTGGGAAGCCCGGC
CCTCAGGGCCCCAGTGGGGACCCAGGCCCCCGGGCCCCACCAGGCAAAGAGGGACTCCCCGGCCCTCAGGGCCCT
CCTGGCTTCCAGGGACTTCAGGGCACCGTTGGGGAGCCTGGGGTGCTGGACCTCGGGGACTGCCAGGCTTGCT
GGGGTACCAGGCATGCCAGGCCCCAAGGGCCCCCGGGCCCTCCTGGCCCATCAGGAGCGGTGGTGGCCCTGGCC
CTGCAGAATGAGCCAACCCGGCACCGGAGGACAATAGTAAGTCCAAGCCCTCCCTCCAGCCAGGGGGACAGGGC
AGTGCATGTGCTTGAGACTGAGCCAACCCCAAGTGTGTGGCCCCACCATGTTATTTTTGTTTTGTTTTGTTT
TGAGACAGGGTCTCACTCTGTTGCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCTCACTGCAACCCCCACATCC
CGGGTTCAAGTGATTCTCTGCTTAGCCTCCAGGTAGCTGGGAATACAAGCGTGTGCCCCACAGCCAGCTAA
TTTTTGATTTTTTAGTAGAGAGGGGTTTACAGTGTGGGCGAGGTGGTTTCAAACCTTCTGGCCTCAAGTGATCC
ACCTACCTAGTTTTCCCAAAGTGTGGGAATACAGGTGTGAACCACCAGTTTTGTCCCCGGCTGCATATTATTT
AACAGCAAAGGCATCATAGGGGTTGGCACAGGAGCCCTGCTGCCAGAACAGGCCTCCATACCAGGCATGTGTCTC
TCTCTAAACGCCATTGGGTTTTTTAGTGCTCATTGTGTTTTATGTATTATGTGTGTATGTATGGGACAGGGTCTCA
CTCTGTCACCCAGGCTGGAATGACGAAGTGAAGTAGTCAAACATAGCTCATTGCAGCTTTGACCTCCTGGGCTT
AGGTGATCTTCCCACTCAGACTCCTGCGTAGCTGGGACCACAGGGGTATGCCACCACACCTGGCTAATTTTTTAT
TTTTCTTTTTGTAGAAACAGGGTCTTGCTATGTTGCCAGGCTGGTCTTGAACCTCCTGGCCTCAAGCAACCCTCC
TGCCTCAGTCTTGCAAAGTGCTGGGATCCAGGTGGGAGCCACTGCACCTGGCTCTTGCACTTGTTATTTATAG
GAGCCAGCCCTCAGAAGACAAACACAATGCAAAACATTTCTTTCAGGGAAGCCTGCTGGCCGCCCTGAGCGCTCT
TCCCTCGTTTTTACATCCTCACTCTGGAGATAGATGGGCTCCCTCGGTTAGCTCCATCAACATGTGGATGGAACCC
TCTGCTATTGATGACTACATTTAATTTCTTTTTGAGAAAGGTGTTAGATGTTACGGTGCTTCTAGTCTTTTGAT
AATTAACCTTTGGCAAACCTCGAATGTTTGGTTAGCAACCAAGCCTATTTTTCTCTCTTTGACCCAACCGCTA
TTCTACTTGATTTTGGTTCGGTGAGGCCGGGTTATTTTTGTTGATCCGTGAGCCATTTTTGGTGCTGGGTTCTC
ACATCCAAGTGTTCCTGGGTTCGTATGATTCCAGACTGACGCTGAACATCTGTGCTGCCCTGCTTCTGTGTGT
TGCTTCTGTCAATTTCTGTCAATGTGAAGACGGATCCAAACACAGAAGAACAAGACCCAGTCCAAGATCCATCCA
GATTATGTGGTTTCGGCTTGCTCTGACGTCCACTTTGGGTGATGCTTGCTGCGAGCACGTCCGTGAACGTGAG
CTGTGGGCTCGTGCAGGGACGCTCAGGCTGCTCCAGCGGGACCACAGTTTTGGCCTCTGAAACACAGCTGAAG
AAAGGCAGAGTGCTTTCTGTGATCTTTAATCAATGTTTTCCACTTTTGCATTCTTAGGCTGCCCGCCTCACTGG

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FIGURE 2175B

AAGAACTTCACAGACAAATGCTACTATTTTTCAGTTGAGAAAGAAATTTTGGAGGATGCAAAGCTTTTCTGTGAA
GACAAGTCTTCACATCTTGTTTTTCATAAACACTAGAGAGGAACAGCAATGGATAAAAAAACAGATGGTAGGGAGA
GAGAGCCACTGGATCGGCCTCACAGACTCAGAGCGTGAAAATGAATGGAAGTGGCTGGATGGGACATCTCCAGAC
TACAAAAATTGGAAAGCTGGACAGCCGGATAACTGGGGTCATGGCCATGGGCCAGGAGAAGACTGTGCTGGGTTG
ATTTATGCTGGGCAGTGGAAACGATTTCCAATGTGAAGACGTCAATAACTTCATTTGCGAAAAAGACAGGGAGACA
GTACTGTCATCTGCATTATAACGGACTGTGATGGGATCACATGAGCAAATTTTCAGCTCTCAAAGGCAAAGGACA
CTCCTTTCTAATTGCATCACCTTCTCATCAGATTGAAAAAAAAAAGCACTGAAAACCAATTACTGAAAAAAAAAT
TGACAGCTAGTGTTTTTTTACCATCCGTCATTACCCAAAGACTTGGGAACTAAAATGTTCCCCAGGGTGATATGCT
GATTTTCATTGTGCACATGGACTGAATCACATAGATTCTCCTCCGTCAGTAACCGTGCGATTATACAAATTATGT
CTTCCAAAGTATGGAACACTCCAATCAGAAAAAGGTTATCATTGGTCGTTGAGTTATGGGAAGAAGCTTAAGCATA
TACTGTGTAAACAGTGCCATACATTTCTAAAAATCCCAAGTGTAGGAAAAATATGCAGACATACAGATATATAGGC
CAACTATTAGTAATAATATGAAATATACTTAAAGAGCTTTTAAAACCTTTGTATTTTTGTACAAAATATTTGTCTT
TTACAATTTTTTTTCTTTTTTTTTTTTTTTTGTGTCATTTTACCGACATAATACATGGAGCCAAAGAAAACAATAATGGT
ACTAATAAAAACTCCTAGGGTTTCTGTCAGATTTAATTCTACCCAGTGGCAAAGAATTTTTTCAATTGTGGCTT
TAAAAAATAATTAAATATACATGTATATATATAT

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FIGURE 2176

MKDDFAEEEEVPSFGFKRFGIHEGTQCPKCHNNWALKFSIILLYILCALLTITVAILGYKVVEKMDNVTGGMETS
RQTYDDKLTAVESDLKKLGDQTGKKAISTNSELSTFRSDILDLRQQLREITEKTSKNKDTLEKLQASGDALVDRQ
SQLKETLENNNSFLITTVNKTLQAYNGYVTNLQODTSVLQGNLQNMYSHNVVIMNLNNLNLTVQVQQRNLITNLQR
SVDDTSQAIQRIKNDFQNLQQVFLQAKKDTDWLKEKVQSLQTLAANNSALAKANNDTLEDMNSQLNSFTGQMENI
TTISQANEQNLKDLQDLHKDAENRTAIKFNQLEERFQLFETDIVNIIISNISYTAHHLRTLTSNLNEVRTTCTDTL
FHTDDLTSLNNTLANIRLDSVSLRMQQDLMSRLDTEVANLSVIMEEMKLVD SKHGQLIKNFTILQGPPGPRGP
*QJRGSGQPPGPTGNKGQKGEKGEPPGPAGERGPIGPAGPPGERGGKGSKGSQGPKGSRGSPGKPGPQGPPSGD
FQPPGPPGKEGLPGPQGPFGFQGLQGTVGEPGVPGPRGLPGLPGVPGMPGPKGPPGPPGPPSGAVVPLALQNEPTP
APEDNSKSKPSLQEGGQGSACA

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FIGURE 2177

AGTTGAGCGCAGTCGCCGCTCCAGTCTATCCGGCACTAGGAACAGCCCCGGGGGCGAGACGGTCCCCGCCATGTC
TGCGGCCATGAGGGAGAGGTTTCGACCGGTTCTTGACGACGAGAAGAACTGCATGACTGACCTTCTGGCCAAGCTCGA
GGCCAAAACCGGCGTGAACAGGAGCTTCATCGCTCTTGGTGTATCGGACTGGTGGCCTTGTACCTGGTGTTCGG
TTATGGAGCCTCTCTCCTCTGCAACCTGATAGGATTTGGCTACCCAGCCTACATCTCAATTAAAGCTATAGAGAG
TCCCAACAAAGAAGATGATACCCAGTGGCTGACCTACTGGGTAGTGTATGGTGTGTTTACGATTGCTGAATTCTT
CTCTGATATCTTCTGTATGGTTCCCTTCTACTACATGCTGAAGTGTGGCTTCTGTGTGGTGCATGGCCCC
GAGCCCTTCTAATGGGGCTGAAGTGTCTACAAGCGCATCATCCGTCCTTTCTTCTGAAGCACGAGTCCAGAT
GGACAGTGTGGTCAAGGACCTTAAAGACAAGTCCAAAAGAGACTGCAGATGCCATCACTAAAGAAGCGAAGAAAGC
TACCGTGAATTTACTGGGTGAAGAAAAGAAGAGCACCTAAACCAGACTAAACCAGACTGGATGGAACTTCTCTGC
CCTCTCTGTACCTTCTACTGGAGCTTGATGTTATATTAGGGACTGTGGTATAATTATTTTAAATAATGTTGCCTT
GGAAACATTTTGAGATATTAAAGATTGGAATGTGTTGTAAGTTCTTTGCTTACTTTTACTGTCTATATATATAG
GGAGCACTTTAACTTAATGCAGTGGGCAGTGTCCACGTTTTTGAAAATGTATTTTGCCTCTGGGTAGGAAAAG
ATGTATGTTGCTATCCTGCAGGAAATATAAACTTAAATAAAATTATATACCCACAGGCTGTGTACTTTACTGG
GCTCTCCCTGCACGXATTTTCTCTGTAGTTACATTTAGGXTAATCTTTATGGTCTACTTCTXTAATGTACAAT
TTTATATAATTCXGXAATGTTTTTAATGTATTTGTGCACATGTACATATGGAAATGTTACTGTCTGACTACAXCA
TGCATCATGCTCATGGGGAGGGAGCAGGGGAAGGTTGTATGTGTCATTTATACTTCTGTACAGTAAGACCACCT
GCAACAAGCTGGAGGAACCATTTGTGCTGGTGTGGTCTACTAAATAATACTTTAGGAAATACGTGATTAATATGCA
AGTGAACAAAGTGAGAAATGAAATCGAATGGAGATTGGCCTGGTTGTTTCCGTAGTATATGGCATATGAATACCA
GGATAGCTTTATAAAGCAGTTAGTTAGTTAGTTACTCACTCTAGTGATAAATCGGGAAATTTACACACACACACA
CACACACACACACACACACACACACACACACACACAGAGTACCCTGTAACCTCTCAATTCCTGAAAACTA
GTAATACTGTCTTATCTGCTATAAACTTTACATATTTGTCTATTGTCAAGATGCTACAXTGGAXXCATTCTCGG
TTTTATCTTCAXAGXGGAGAXACATGTTGATTTAGTCTTCTTTCCCAATCTTCTTTTTTAAXCCAGTTTXAGGXX
CTTCTGXAGATTTGXCCACCTCTGATTACATGTATGTTCTXGTTTGATCATXAGCAACAACATGCTAATGXCGA
CACCTAGCTCTXAGXGCAATTCTGGGAGAXTGAXAGGXXGTATAXAGTXXCCATAATCTGCTTGGCAATAGTTA
AGTCAATCTATCTTCAGTTTTTCTCTGGCCTTTAAGGTCAAACACAAGAGGCTTCCCTAGTTTACAAGTCAGAGT
CACTTGTAGTCCATTTAAATGCCCTCATCCGATTTCTTTGTGTTGATAAGCTGCACAXGACTACATAGTAAGTAC
AGAXCAGTAAAGTTAAXXCGGATGTCTCCATTGATCTGCCAAXTCGXTATAGAGAGCAATTTGTCTGGACTAGAA
AATCTGAGTTTTACACCATACTGTAAAGAGTCCTTTGAATTAAGTAACTAGACTAAAACAAGTGTATAACTAACTA
ACAAGATTAAATATCCAGCCAGTACAGTATTTTTTAAGGCAAATAAAGATGATTAGCTCACCTTGAGXTAACAAT
CAGGTAAGATCATXACAATGTCTCATGATGTAAAXAATATTAAAGATATCAATACTAAGTGACAGTATCACXXCT
AATATAATATGGATCAGAGCATTATTTTTGGGGAGGAAAACAGTGGTGATTACCGGCATTTTATTAACTTAAAA
CTTTGTAGAAAGCAAACAAAATTGTTCTTGGGAGAAAATCAACTTTTAGATTAAAAAAATTTTAAAGTAXCTAGGA
GTATTTAAATCCTTTTCCCATAAATAAAAGTACAGTTTTCTTGGTGGCAGAATGAAAATCAGCAACXTCTAGCAT
ATAGACTATATAATCAGATTGACAGCATATAGAATATATTATCAGACAAGATGAGGAGGTACAAAAGTTACTATT
GCTCATAATGACTTACAGGCTAAAAXTAGXTXAAAATACTATATTAAATTCTGAATGCAATTTTTTTTTTGTTC
CTTGAGACCAAAAATTAAGTTAACTGTTGCTGGCAGTCTAAGTGTAATGTTAACAGCAGGAGAAGTTAAGAATT
GAGCAGTTCTGTTGCATGATTTCCCAAATGAAATACTGCCTTGGCTAGAGTTTGAAAACTAATTGAGCCTGTGC
CTGGCTAGAAAACAAGCGTTTATTTGAATGTGAATAGTGTTCAAAGGTATGTAGTTACAGAATTCCTACCAAAC
AGCTTAAATTCTTCAAGAAAGAATTCCTGCAGCAGTTATTCCTTACCTGAAGGCTTCAATCATTTGGATCAACA
ACTGCTACTCTCGGGAAGACTCCTCTACTCACAGCTGAAGAAAATGAGCACACCCTTCACACTGTTATCACCTAT
CCTGAAGATGTGATACACTGAATGGAAATAAATAGATGTAAATAAAATTGAGXTCTCATTTAAAAAAAACCATGT
GCCCAATGGGAAAATGACCTCATGTTGTGGTTTAAACAGCAACTGCACCCACTAGCACAGCCCATTGAGCTAXCC
TATATATACATCTCTGTCACTGCCCCCTC

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FIGURE 2178

MRERFDRFLHEKNCMTDLLAKLEAKTGVNRSFIALGVIGLVALYLVFGYGASLLCNLIGFGYPAYISIKAIESPN
KEDDTQWLTYWVVGVSIAEFFSDIFLSWFFYYMLKCGFLLWCMAPSPSNGAELLYKRIIRPFFLKHESQMS
VVKDLKDKSKETADAITKEAKKATVNLLGEEKKST

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FIGURE 2179

GGGGTACTCGGCGGCGGCGGAGCGGGCGGCAGAGCAGGGCGGCGGCGACTCGCAGGGTACCACCATCTTAAGGAC
AGAAAAGCTACAGGACTCTAGGAGGCCACCGTCCTGATTTGGGAAGTCCAACCTTACTTTGGCCAGACAGCAGCTA
AGCTGGTTCATCCCATCAGCCTGGATTGGTGAACTGAATCACAGGAGATATTTCCAGGTTTGCTGGGATGGGAA
ACCTGCTCAAAGTCCTTACCAGGGAAATTGAAAACCTATCCACACTTTTTCTCGGATTTTGAAAATGCTCAGCCTA
CAGAAGGAGAGAGAGAAATCTGGAACCAGATCAGCGCCGTCTTCAGGATTCTGAGAGCATCCTTGACAGACCTGC
AGGCTTACAAAGGCGCAGGCCAGAGATCCGAGATGCAATTCAAAATCCCAATGACATTCAGCTTCAAGAAAAAG
CTTGGAATGCGGTGTGCCCTCTTGTTGTGAGGCTAAAGAGATTTTACGAGTTTCCATTAGACTAGAAAAAGCTC
TTCAGAGTTTATTGGAATCTCTGACTTGTCCACCCTACACACCAACCCACACCTGGAAAGGGAACAGGCCCTGG
CAAAGGAGTTTGCCGAAATTTTACATTTTACCCTTCGATTGATGAGCTGAAGATGAGGAACCCGGCTATTGAGA
ATGACTTCAGCTACTACAGAAGAACAATCAGTCGCAACCGCATCAACAACATGCACCTAGACATTGAGAATGAAG
TCAATAATGAGATGGCCAATCGAATGTCCCTCTTCTATGCAGAAGCCACGCCAATGCTGAAAACCCCTTAGCAATG
CCACAATGCACCTTTGTCTCTGAAAACAAAACCTCTGCCAATAGAGAACACCACAGACTGCCTCAGCACAATGACAA
GTGTCTGTAAAGTCATGCTGGAAACTCCGGAGTACAGAAGTAGGTTTACGAGTGAAGAGACCCTGATGTTCTGCA
TGAGGGTGATGGTGGGAGTCATCATCTCTATGACCATGTCCACCCTGTGGGAGCTTCTGCAAGACATCCAAGA
TCGATATGAAAGGCTGCATAAAAGTTTTGAAGGAGCAGGCCCCAGACAGTGTGGAGGGGCTGCTAAATGCCCTCA
GGTTCACTACAAAGCACTTGAACGATGAATCAACTTCCAAACAGATTTCGAGCAATGCTTCAGTAGAGCTCTGCTC
AAAGAAGAGGATCTATGTGCTGACCTCAGAAGATGTATATGTTTACATAATTTAATACAGATTGATGTTAATACT
TGTGTATTTACATAACCGTTTTCTTCTTGTCACTGAAATATATGGACCTTAATTTGTATCCTGACTGACTCAACC
CAGCAGAGCATAAATTGACTTGAGAGCCTTACCTTTGATGTCTGAAATGAAACCCCTTCTCCAAAGGCAAAATT
CGGAGACTTTGATCTTTGCTACTGGAGTCCTTTAACAACATCTATAACGATAAAAAATTCTAATTGTCAAAAAA
AAAAAAAAAAAAA

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FIGURE 2180

MGNLLKVLTREIENYPHFFLDFENAQPTEGEREIWNQISAVLQDSESILADLQAYKGAGPEIRDAIQNPNDIQLQ
EKAWNVCPLVVRLKRFYEF SIRLEKALQSLLESLTCPPTYPTQHLEREQALAKEFAEILHFTLRFDELKMRNPA
IQNDFSYYRRTISRNRINNMHLDIENEVNNEMANRMSLFYAEATPMLKTL SNATMHFVSENKTLPIENTTDCLST
MTSVCKVMLETPEYRSRFTSEETLMFCMRVMVGVIILYDHVHPVGAFCKTSKIDMKGCIKVLKEQAPDSVEGLLN
ALRFTTKHLNDESTSKQIRAMLQ

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FIGURE 2181A

CTGGCCGCGGCGTGGGGACAGCGAGGCGCACTGGGGCCTCCCAGCGCCGGGCGGCGCGCGCTCCAGCCCCGAGG
TCTACGGCTTTTGCCTCCGAGCCCAGAGGAAGATGCCTGCCGGCACCAGCTCGGGCTGCGGGGCTGAACGCCTG
TCTTCCAGGCGCACGGCAGCACTGCCCTCGGCCGGTGTCTGGTAGCGGCACTCGGCGTGCCCCGGGCGGACGAAGA
GCGCAGGCTGGGTACACCTTGCCCGAATCGGCCGGAGTTTCGAGCTAGCGAGGGCGGGCGGCGGCGCGGATGGG
CGCGGGGTTTTCGCGCCCCCGCGGGTGTCTCCGAGCGGCCCGGGCACCAGGGGCGACGCTGAGTGCCGGAGCCGCG
GCCGAGAGAGAACTTGGGGCGGGGGCCATGCACCGGTGCGGAGTCTAGAGCCGAGCGGAGCGCCCCGCGGGCCC
GCCCCGCTGTCGCGCCGTTCCGGTCTCACAGTCCCCGCGCCCGGAGTTTCGAGCGCGCTCCAGACAAGATGCGG
CGGCCGGTCCGGGGAGGGCTCGGGGCCCCGCGCCGCTCGCCTTGCTTCTCTTCTCTGCTGCTTTTGCTTCGG
CTGGAGCCGGTGACCGCCGCGGCCGCGGGCGCCCTGCGCGGCCGCTGCACCTGCGCTGGGGACTCGCTG
GACTGCGGTGGGCGCGGGCTGGCTGCGTTGCCGGGGACCTGCCCTCCTGGACGCGGAGCCTAAACCTGAGTTAC
AACAACTCTCTGAGATTGACCCTGCTGGTTTTGAGGACTTGCCGAACCTACAGGAAGTGTTACCTCAATAATAAT
GAGTTGACAGCGGTACCATCCCTGGGCGCTGCTTCATCATATGTCGTCTCTCTCTTTCTGCAGCACAAAGATT
CGCAGCGTGGAGGGGAGCCAGCTGAAGGCCTACCTTTCTTAGAAGTGTTAGATCTGAGTTTGAACAACATCACG
GAAGTGCGGAACACCTGCTTTCCACACGGACCGCCTATAAAGGAGCTCAACCTGGCAGGCAATCGGATTGGCACC
CTGGAGTTGGGAGCATTGATGGTCTGTACGGTCTGCTGCTAACTCTTCGCTGAGCAAAAACAGGATCACCCAG
CTTCTGTAAAGAGCATTCAAGCTACCCAGGCTGACACAACCTGGACCTCAATCGGAACAGGATTTCGGCTGATAGAG
GGCCTCACCTTCCAGGGGCTCAACAGCTTGGAGGTGCTGAAGCTTCAGCGAAACAACATCAGCAAACTGACAGAT
GGGGCCTTCTGGGGACTGTCCAAGATGCATGTGCTGCACCTGGAGTACAACAGCCTGGTAGAAGTGAACAGCGGC
TCGCTCTACGGCCTCACGGCCCTGCATCAGCTCCACCTCAGCAACAATTCATCGCTCGCATTACCCGCAAGGGC
TGGAGCTTCTGCCAGAAGCTGCATGAGTTGGTCTGTCTTCAACAACCTGACACGGCTGGACGAGGAGAGCCTG
GCCGAGCTGAGCAGCCTGAGTGCTCTGCGTCTCAGCCACAATTCATCAGCCACATTGCGGAGGGTGCCTTCAAG
GGACTCAGGAGCCTGCGAGTCTTGGATCTGGACCATAACGAGATTTCGGGCACAATAGAGGACACGAGCGGGCC
TTCTCAGGGCTCGACAGCCTCAGCAAGCTGACTCTGTTTGGAAACAAGATCAAGTCTGTGGCTAAGAGAGCATT
TCGGGGCTGGAAGGCCTGGAGCACCTGAACCTTGGAGGGAATGCGATCAGATCTGTCCAGTTTGATGCCTTTGTG
AAGATGAAGAATCTTAAAGAGCTCCATATCAGCAGCGACAGCTTCCTGTGTGACTGCCAGCTGAAGTGCGTCCCC
CCGTGGCTAATTGGCAGGATGCTGCAGGCCTTTGTGACAGCCACCTGTGCCACCCAGAATCACTGAAGGGTCAG
AGCATTTTCTGTGCCACCAGAGAGTTTCGTGTGCGATGACTTCCTGAAGCCACAGATCATCACCCAGCCAGAA
ACCACCATGGCTATGGTGGGCAAGGACATCCGTTTACATGCTCAGCAGCCAGCAGCAGCAGCTCCCCATGACC
TTTGCTTGAAGAAAGACAATGAAGTCTGACCAATGCAGACATGGAGAACTTTGTCCACGTCCACGCGCAGGAC
GGGGAAGTGATGGAGTACACCACCATCTGCACCTCCGTGAGGTCACTTTGCGGCACGAGGGCCGCTACCAATGT
GTCATCACCAACCACTTTGGCTCCACCTATTACATAAGGCCAGGCTCACTGTGAATGTGTTGCCATCATTACCC
AAAACGCCCCACGACATAACCATCCGACCACCACCATGGCCCGCCTCGAATGTGCTGCCACAGGTCACCCAAAC
CCTCAGATTGCCTGGCAGAAGGATGGAGGCACGGATTTCCCCGCTGCCCGTGAGCGACGCATGCATGTCTGCCG
GATGACGACGTGTTTTTCATCACTGATGTGAAAATAGATGACGCAGGGGTTTACAGCTGTACTGCTCAGAACTCA
GCCGGTTCTATTTAGCTAATGCCACCCTGACTGTCTAGAGACCCCATCCTTGGTGGTCCCCTTGGAAGACCGT
GTGGTATCTGTGGGAGAAACAGTGGCCCTCCAATGCAAAGCCACGGGGAACCCCTCCGCCCCGCATCACCTGGTTT
AAGGGGGACCGCCGCTGAGCCTCACTGAGCGGCACCACCTGACCCCTGACAACCAGCTCCTGGTGGTTTCAAG
GTGGTGGCAGAGGATGCGGGCCGATATACCTGTGAGATGTCCAACACCCCTGGGCACGGAGCGAGCTCACAGCCAG
CTGAGCGTCTGCCCGCAGCAGGCTGCAGGAAGGATGGGACCACGGTAGGCATCTTCACCATTGCTGTCTGTGAGC
AGCATCGTCTGACGTCACTGGTCTGGGTGTGCATCATCTACCAGACCAGGAAGAAGAGTGAAGAGTACAGTGTC
ACCAACACAGATGAAACCGTCTGTGCCACCAGATGTTCCAAGCTACCTCTCTTCTCAGGGGACCCTTTCTGACCGA
CAAGAAAACCGTGGTCAGGACCGAGGGTGGGGCCCTCAGGCCAATGGGCACATTGAGAGCAATGGTGTGTGTCCA
AGAGATGCAAGCCACTTTCCAGAGCCGACACTCACAGCGTTGCCTGCAGGCAGCCAAAGCTCTGTGCTGGGTCT
GCGTATCACAAAGAGCCGTGGAAAGCGATTGAGAAAGCTGAAGGGACACCTGGGCCACATAAGATGGAACACGGT
GGCCGGGTCTGATGAGTGACTGCAACACCGAAGTGGAAGTGTACTCCAGGGGACAAGCCTTCCACCCCCAGCCT
GTGTCCAGAGACAGCGCACAGCCAAGTGCGCCAAATGGCCCGGAGCCGGTGGGAGTGACCAAGAGCATTCTCCA
CATCACCAGTGACGAGGACTGCCGCTGGGTCTGCCCCGAGTGCCAAGGGTCTGCTTACCCAGTAACCAGAT
AGAATGCTGACGGCTGTGAAGAAAAGCCAATGGCATCTCTAGATGGGAAAGGGGATTCTTCTGGACTTTAGCA

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FIGURE 2181B

AGGTTGTATCACCCGGACTCTACAGAGCTACAGCCTGCATCTTCATTAAC TTCAGGCAGTCCAGAGCGCGCGGAA
GCCCAGTACTTGCTTGTTTCCAATGGCCACCTCCCCAAAGCATGTGACGCCAGTCCCGAGTCCACGCCACTGACA
GGACAGCTCCCCGGGAAACAGAGGGTGCCACTGCTGTTGGCACCAAAAAGCTAGGTTTTGTCTACCTCAGTTCTT
GTCATACCAATCTCTACGGGAAAGAGAGGTAGGAGAGGCTGCGAGGAAGCTTGGGTTCAAGCGTCACTCATCTGT
A TAGTTGTAAC TCCCATGTGGAGTATCAGTCGCTCACAGGACTTGGATCTGAAGCACAGTAAACGCAAGAGGG
TTGTGTACAAAAGGCCAAAAAAGTATTTGATATCATTGTACATAAGAGTTTTTCAGAGATTTTCATATATATCT
TACAGAGGCTATTTTAATCTTTAGTGCATGGTTAACAGAAAAAATTATACAATTTTGACAATATTATTTTTC
GJATCAGGTTGCTGTTTAATTTTGGAGGGGGTGGGGAAATAGTTCTGGTGCCTTAACGCATGGCTGGAATTTATA
GGCTACAACCACATTTGTTTACAGGAGTTTTTGGTGCGGGTGGGGAAGGATGGAAGGCCTTGGATTTATATTG
ATTCATAGACCCCTAGGCTGCTGTGCGGTGGGACTCCACATGCGCCGGAAGGAGCTTCAGGTGAGCACTGCTC
BTGTGGATGCCCCTGCAACAGGCTTCCCTGTCTGTAGAGCCAGGGGTGCAAGTGCCATCCACACTTGCAGTGA
AGCTTTTTCCTTTTAGGTTTAAGTCCTGTCTGTCTGTAAAGGCGTAGAATCTGTCCGTCTGTAAGGCGTAGAATG
AAGTTGTTAATCCATCACAAAGCAAAGGTCAGAACAGTTAAACACTGCCTTTCCCTCCTCCTCTTATTTTATGAT
AAAAGCAAATGTGGCCTTCTCAGTATCATTGATTGCTATTTGAGACTTTTAAATTAAGGTAAAGGCTGCTGGTG
TTGGTACCTGTGGATTTTTCTATACTGATGTTTTCGTTTTGCCAATATAATGAGTATTACATTGGCCTTGGGGGA
CAGAAAGGAGGAAGTTCTGACTTTTCAGGGCTACCTTATTTCTACTAAGGACCCAGAGCAGGCCTGTCCATGCCA
TTCTTCGCACAGATGAAACTGAGCTGGGACTGGAAAGGACAGCCCTTGACCTGGGTCTGGGTATAATTTGCAC
TTTTGAGACTGGTAGCTAACCATCTTATGAGTGCCAATGTGTCAATTTAGTAAACTTAAATAGAAACAAGGTCCT
TCAAATGTTTCTTTGGCCAAAAGCTGAAGGGAGTTACTGAGAAAATAGTTAACAATTACTGTCAGGTGTCATCAC
TGTTCAAAGGTAAGCACATTTAGAATTTTGTCTTGACAGTTAACTGACTAATCTTACTTCCACAAAATATGTG
AATTTGCTGCTTCTGAGAGGCAATGTGAAAGAGGGAGTATTACTTTTATGTACAAAGTTATTTATTTATAGAAAT
TTTGGTACAGTGACATTGAAAACCATGTAAATATTGAAGTGTCTAACAAATGGCATTGAAGTGTCTTTAATAA
AGGTTCAATTTATAAATGTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2182

MARPVRGGIGAPRRSPCLLLLWLLLLRLEPVTAAAGPRAPCAAACCTCAGDSLDCGGRGLAALPGDLPSWTRSLNL
SYNKLSEIDPAGFEDLPNLQEVYLNNNELTAVPSLGAASSHVVSFLQHKNKIRSVEGSQKAYLSLEVLDLSLNN
ITEVRNTCFPHGPPIKELNLAGNRIGTLELGAFDGLSRSLTLRLSKNRITQLPVRAFKLPRLTQLDLNRNRIRL
IEGLTFQGLNSLEVCLKQRNNISKLTGDAFWGLSKMHVLHLEYNSLVEVNSGSLYGLTALHQLHLSNNSIARIHR
KGWSFCQKLHELVLFSFNNLTRLDEESLAEISSLSVLRSLSHNSISHIAEGAFKGLRSLRVLDLDHNEISGTIEDTS
GAFSGLDLSKLTFLFGNLIKSVAKRAFSGLEGLEHLNLGGNAIRSVQFADFVKMKNLKEHISSDSFLCDCQLKW
LPPWLI GRMLQAFVTATCAHPESLKGQSIFSVPPESEFVCDDFLKPQIIITQPETTMAMVGKDIRFTCSAASSSSSP
MTFAWKKDNEVLTNADMENFVHVHAQDGEVMEYTTILHLRQVTFGHEGRYQCVITNHFGSTYSHKARLTVNVLP
NSAGSISANATLTVLETPSLVPLEDRVSVGETVALQCKATGNPPPRITWFKGDRPLSLTERHHLTPDNQLLV
QNVVAEDAGRYTCEMSNTLGTERRAHSQLSVLPAAAGCRKDGTTVGIFTIAVVSSIVLTSLVWVCIIYQTRKKSEY
SVTNTDETVPDPVPSYLSSQGTLSDRQETVVRTGAGPQANGHIESNGVCPRDASHFPEPDTHSVACRQPKLCA
GSAYHKEPWKAIEKAEGTPGPHKMEHGGRVVCSDCNTEVDCYSRQAFHPQPVSRDSAQPSAPNGPEPGGSDQEH
SPHHQCSRTAAGSCPECQGSLYPSNHDRMLTAVKKKPMASLDGKGDSSWTLARLYHPDSTELQPASSLTSGSPER
AEAQYLLVSNHLPKACDASPESTPLTGQLPGKQRVFLLLAPKS

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FIGURE 2183

ACACTCGCTTCTGGAACGTCTGAGGTTATCAATAAGCTCCTAGTCCAGACGCCATGGGTCATTTACAGAGGAGG
ACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAATGTGGAAGATGCTGGAGGAGAAACCTGGGAAGGCTCC
TGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCA
ACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCA
AGGGCACCTTTGCCCAGCTGAGTGAAGTGCCTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGG
GAAATGTGCTGGTGACCGTTTTGGCAATCCATTTTCGGCAAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGA
AGATGGTGACTGGAGTGGCCAGTGCCCTGTCCTCCAGATACCCTGAGCTCACTGCCCATGATGCAGAGCTTTCA
AGGATAGGCTTTATTCTGCAAGCAATACAAATAATAAATCTATTCTGCTAAGAGATCAC

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FIGURE 2184

MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFDFSGNLSSASAIMGNPKVKAHGKKVLTSLGDA
IKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMVTGVASALSSRYH

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FIGURE 2185A

TTTTTTTTTTTTTTTGAGAAAGGAATTTTCATCCCAAATAAAAGGAATGAAGTCTGGCTCCGGAGGAGGGTCCCCG
ACCTCGCTGTGGGGGCTCCTGTTTCTCTCCGCCGCTCTCGCTCTGGCCGACGAGTGGAGAAATCTGCGGGCCA
GGCATCGACATCCGCAACGACTATCAGCAGCTGAAGCGCCTGGAGAACTGCACGGTGATCGAGGGCTACCTCCAC
ATCCTGCTCATCTCCAAGGCCGAGGACTACCGCAGCTACCGCTTCCCCAAGCTCACGGTCATTACCGAGTACTTG
CTGCTGTTCCGAGTGGCTGGCCTCGAGAGCCTCGGAGACCTCTTCCCCAACCTCACGGTCATCCGCGGCTGGAAA
CTCTTCTACAACCTACGCCCTGGTCATCTTCGAGATGACCAATCTCAAGGATATTGGGCTTTACAACCTGAGGAAC
ATTACTCGGGGGGCCATCAGGATTGAGAAAAATGCTGACCTCTGTTACCTCTCCACTGTGGACTGGTCCCTGATC
CTGGATGCGGTGTCCAATAACTACATTGTGGGGAATAAGCCCCCAAAGGAATGTGGGGACCTGTGTCCAGGGACC
ATGGAGGAGAAGCCGATGTGTGAGAAGACCACCATCAACAATGAGTACAACCTACCGCTGCTGGACCACAAACCGC
TGCCAGAAAAATGTGCCCAAGCACGTGTGGGAAGCGGGCGTGACCGGAGAACATGAGTGCTGCCACCCCGAGTGC
CTGGGCAGCTGCAGCGCGCCTGACAACGACACGGCCTGTGTAGCTTGCCGCCACTACTATGCCGGTGTCTGT
GTGCCTGCCTGCCCCGCCAACACCTACAGGTTTGAGGGCTGGCGCTGTGTGGACCGTGACTTCTGCCCAACATC
CTCAGCGCCGAGAGCAGCGACTCCGAGGGGTTTGTGATCCACGACGGCGAGTGATGCAGGAGTGCCCCCTCGGGC
TTCATCCGCAACGGCAGCCAGAGCATGTACTGCATCCCTTGTGAAGGTCCCTTGCCCCAAGGTCTGTGAGGAAGAA
AAGAAAACAAAGACCATTGATTCTGTTACTTCTGCTCAGATGCTCCAAGGATGCACCATCTTCAAGGGCAATTTG
CTCATTAAACATCCGACGGGGGAATAACATTGCTTCAGAGCTGGAGAACTTCATGGGGCTCATCGAGGTGGTGACG
GGCTACGTGAAGATCCGCCATTCTCATGCCTTGGTCTCCTTGTCTTCTAAAAAACCTTCGCCTCATCTAGGA
GAGGAGCAGCTAGAAGGGAATTACTCCTTCTACGTCTCGACAACCAGAACTTGACGAACTGTGGGACTGGGAC
CACCGBAACCTGACCATCAAAGCAGGGAAAAATGTACTTTGCTTTCATCCCAAATTATGTGTTTTCCGAAATTTAC
CGCATGGAGGAAGTGACGGGGACTAAAGGGCGCCAAAGCAAAGGGGACATAAACACCAGGAACAACGGGGAGAGA
GCCTCCTGTGAAAGTGACGTCTGCAATTTACCTCCACCACCACGTGGAAGAATCGCATCATATAACCTGGCAC
CGGTACCGGCCCCCTGACTACAGGGATCTCATCAGCTTCACCGTTTACTACAAGGAAGCACCTTTAAGAATGTC
ACAGAGTATGATGGGCAGGATGCCTGCGGCTCCAACAGCTGGAACATGGTGGACGTGGACCTCCCGCCCAACAAG
GACGTGGAGCCCGCATCTTACTACATGGGCTGAAGCCTGGACTCAGTACGCCGTTTACGTCAAGGCTGTGACC
CTCACCATGGTGGAGAACGACCATATCCGTGGGGCCAAGAGTGAGATCTTGTACATTTCGCACCAATGCTTCAGTT
CCTTCCATTCCCTTGGACGTTCTTTAGCATCGAACTCCTCTTCTCAGTTAATCGTGAAGTGGAACCTCCCTCT
CTGCCCCAACGGCAACCTGAGTTACTACATTGTGCGCTGGCAGCGGCAGCCTCAGGACGGCTACCTTTACCGGCAC
AATTACTGCTCCAAAGACAAAATCCCCATCAGGAAGTATGCCGACGGCACCATCGACATTGAGGAGGTACACAG
AACCCCAAGACTGAGGTGTGTGGTGGGGAGAAAAGGGCCTTGCTGCGCCTGCCCCAAAACCTGAAGCCGAGAAGCAG
GCCGAGAAGGAGGAGGCTGAATACCGCAAAGTCTTTGAGAATTTCTGCACAACCTCCATCTTCGTGCCAGACCT
GAAAGGAAGCGGAGAGATGTATGCAAGTGGCCAACACCACCATGTCCAGCCGAAGCAGGAACACCACGGCCGCA
GACACCTACAACATCACCGACCCGGAAGAGCTGGAGACAGAGTACCCTTTCTTTGAGAGCAGAGTGGATAACAAG
GAGAGAATGTCAATTTCTAACCTTCGGCCTTTCACATTGTACCGCATCGATATCCACAGCTGCAACCACGAGGCT
GAGAAGCTGGGCTGCAGCGCCTCCAACCTCGTCTTTGCAAGGACTATGCCCGCAGAAGGAGCAGATGACATTCCT
GGGCCAGTGACCTGGGAGCCAAGGCCTGAAAACCTCATCTTTTTAAAGTGGCCGGAACCTGAGAATCCCAATGGA
TTGATTCTAATGTATGAAATAAAATACGGATCACAAGTTGAGGATCAGCGAGAATGTGTGTCCAGACAGGAATAC
AGGAAGTATGGAGGGGCCAAGCTAAACCGGCTAAACCGGGGAACCTACACAGCCCGGATTAGGCCACATCTCTC
TCTGGGAATGGGTCGTGGACAGATCCTGTGTTCTTCTATGTCCAGGCCAAAACAGGATATGAAAACCTTCATCCAT
CTGATCATCGCTCTGCCCCGTCGCTGTCTGTGATCGTGGGAGGGTTGGTGATTATGCTGTACGTCTTCCATAGA
AAGAGAAATAACAGCAGGCTGGGGAATGGAGTGCTGTATGCCTCTGTGAACCCGGAGTACTTCAGCGCTGCTGAT
GTGTACGTTCTGATGAGTGGGAGGTGGCTCGGGAGAAGATCACCATGAGCCGGGAACCTGGGCAGGGGTGCTTT
GGGATGGTCTATGAAGGAGTTGCCAAGGGTGTGGTGAAAGATGAACCTGAAACCAGAGTGGCCATTAAACAGTG
AACGAGGCCGCAAGCATGCGTGAGAGGATTGAGTTTCTCAACGAAGCTTCTGTGATGAAGGAGTTCAATTGTCAC
CATGTGGTGCGATTGCTGGGTGTGGTGTCCCAAGGCCAGCCAACACTGGTCATCATGGAACCTGATGACACGGGGC
GATCTCAAAAGTTATCTCCGGTCTCTGAGGCCAGAAATGGAGAATAATCCAGTCCTAGCACCTCCAAGCCTGAGC
AAGATGATTGAGTGGCCGGAGAGATTGAGACGGCATGGCATACCTCAACGCCAATAAGTTTCGTCCACAGAGAC
CTTGCTGCCCCGAATTGCATGGTAGCCGAAGATTTACAGTCAAAATCGGAGATTTGGTATGACGCGAGATATC
TATGAGACAGACTATTACCGGAAAGGAGGCAAAGGGCTGCTGCCCCGTGCGCTGGATGTCTCTGAGTCCCTCAAG

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FIGURE 2185B

GATGGAGTCTTCACCACTTACTCGGACGTCTGGTCCTTCGGGGTCGTCTCTGGGAGATCGCCACACTGGCCGAG
CAGCCCTACCAGGGCTTGTTCAACGAGCAAGTCCTTCGCTTCGTCATGGAGGGCGGCCTTCTGGACAAGCCAGAC
AACTGTCTTGACATGCTGTTTGAAGTATGCGCATGTGCTGGCAGTATAACCCCAAGATGAGGCCTTCCTTCCTG
GAGATCATCAGCAGCATCAAAGAGGAGATGGAGCCTGGCTTCCGGGAGGTCTCCTTCTACTACAGCGAGGAGAAC
AAGCTGCCCCGAGCCGGAGGAGCTGGACCTGGAGCCAGAGAACATGGAGAGCGTCCCCCTGGACCCCTCGGCCTCC
TCGTCTCCCTGCCACTGCCCCGACAGACACTCAGGACACAAGGCCGAGAACGGCCCCGGCCCTGGGGTGCTGGTC
CTCCGCGCCAGCTTCGACGAGAGACAGCCTTACGCCCACATGAACGGGGGCGCAAGAACGAGCGGGCCTTGCCG
CTGCCCCAGTCTTCGACCTGCTTGATCCTTGATCCTGAATCTGTGCAAAACAGTAACGTGTGCGCACGCGCAGCGG
GGTGGGGGGGGAGAGAGAGTTTTAAACAATCCATTACAAAGCCTCCTGTACCTCAGTGGATCTTCAGTTCTGCCCT
TGCTGCCCCGCGGAGACAGCTTCTCTGCAGTAAACACATTTGGGATGTTCCTTTTTTCAATATGCAAGCAGCTT
TTTATCCCTGCCCAAACCCTTAAGTACATGGGCCTTTAAGAACCTTAATGACAACACTTAATAGCAACAGAGC
ACTTGAGAACCAGTCTCCTCACTCTGTCCCTGTCCCTCCCTGTTCTCCCTTTCTCTCTCCTCTCTGCTTCATAAC
GGAAAAATAATTGCCACAAGTCCAGCTGGGAAGCCCTTTTATCAGTTTGAGGAAGTGGCTGTCCCTGTGGCCCC
ATCCAACCACTGTACACACCCGCCTGACACCGTGGGTCATTACAAAAAACACGTGGAGATGGAAATTTTTACCT
TTATCTTTCACCTTCTAGGGACATGAAATTTACAAAGGGCCATCGTTCATCCAAGGCTGTTACCATTTTAACGC
TGCCTAATTTTGCCAAAATCCTGAACTTCTCCCTCATCGGCCGCGCTGATTCTCTGTGTCCGGAGGCATGGG
TGAGCATGGCAGCTGGTTGCTCCATTTGAGAGACACGCTGGCGACACACTCCGTCCATCCGACTGCCCCCTGCTGT
GCTGCTCAAGGCCACAGGCACACAGGTCTCATTGCTTCTGACTAGATTATTATTTGGGGGAAGTGGACACAATAG
GTCTTCTCTCAGTGAAGGTGGGGAGAAGCTGAACCGGC

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FIGURE 2186

MKSGSGGGSPTSLWGLLFLSAALSLWPTSGEICGPGIDIRNDYQQLKRLNCTVIEGYLHILLISKAEDYRSYRF
PKLTVITEYLLLFVRVAGLESLGDLFPNLTVIRGWKLFYNYALVIFEMTNLKDIGLYNLRNITRGAIRIEKNADLC
YLSTVDWSLILDVSNNYIVGNKPPKECGDLCPGTMEEEKPMCEKTTINNEYNYRCWTTNRCQKMCPSTCGKRACT
ENNECCHPECLGSCSAPDNDTACVACRHYYYAGVCVPACPPNTYRFEGWRCVDRDFCANILSAESSDSEGFVIHD
FTMQECPSGFIRNGSQSMYCIPCEGPCPKVCEEEKTKTIDSVTSAQMLQGCTIFKGNLLINIRRGNNIASELE
FMGLIEVVTGYVKIRSHALVLSLFLKNLRLILGEEQLEGNYSFYVLDNQNLQQLWDWDHRNLTIKAGKMYFAF
PKLCVSEIYRMEEVTGKGRQSKGDINTRNNGERASCESDVLHFTSTTTSKNRIITWHRYRPPDYRDLISFTV
YYKEAPFKNVTEYDGDACGSNSWNMVDVDLPPNKDVEPGILLHGLKPWTQYAVYVKAVTLMVENDHIRGAKSE
YIRTNASVPSIPLDVLSASNSSSQLIVKWNPPSLPNGNLSYYIVRWQRQPDGYLYRHNYCSKDKIPIRKYAD
IDIEEV TENPKTEVCGGEKGPCACPKTEAEKQAEKEEAERYKVFENFLHNSIFVPRPERKRRDVMQVANTTM
SRNTTAADTYNITDPEELETEYPPFFESRVDNKERTVISNLRPFTLYRIDIHSCNHEAEKLGCSASNFFVART
AEGADDIPGPVTWEPRPENSIFLKWPEPENPNGLILMYEIKYGSQVEDQRECVSRQEYRKYGGAKLNRLNPGN
TARIQATSLSGNGSWTDPVFFYVQAKTGYENFIHLIIALPVAVLLIVGGLVIMLYVFRKRNN SRLGNGVLYAS
VNPEYFSAADVYPDEWEVAREKITMSRELQGGSFGMVYEGVAKGVKDEPETRVAIKTVNEAASMRERIEFLNE
ASVMKEFNCHHVRL LGVVSQGQPTLVIMELMTRGDLKSYLRSLRPEMENN PVLAPPSLSKMIQMA GEIADGMAY
LNANKFVHRDLAARNCMVAEDFTVKIGDFGMTRDIYETDYRKGGKGLLPVRWMSPE SLKDGVF TTYSDVWSFGV
VLWEIATLAEQPYQGLSNEQVLR FVMEGGLLDKPDNCPDMLFELMRMCWQYNPKMRPSFLEIISSI KEEMEPGFR
EVSFYYSEENKLPEPEELDLEPENMESVPLDPSASSSSSLPDRHSGHKAENGPGPGVLVLRASFDERQPYAHMN
GGRKNERALPLPQSSTC

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FIGURE 2187

TAGCACTTCATAGACTGCTATCACGCATTCAATTTTTACTAGTACCTATTGAACACTAAGTTCCAGGCACTGGGCT
AGGCACTGGGATGGTGTGGTGAGCAAAAAGTACCAGTCCTGCCGTGGAGTTTGCTGGGGGAGACACATGTTACT
CAAAGAATCACACTAAGGATAGCAATTTATCTCAAAGCTGCAAGTTCCTGCCATCTACATGTGCCCAGAGTCCCC
AAAATTGAGTGTCAAACAGAGGCTGGGTGACCTCCTGTCCAGGATTGCTCTCATCGTATGAATCGAAGTTTTTCAT
CTTAACGTGTTTTTTTTCTCCTGAGAATAGGCCAACCAATCAATGGCTCAGACAGATAAGCCAACATGCATCCCGC
CGGAGCTGCCGAAGATGCTGAAGGAGTTTGCCAAAGCCGCCATTAGGGTGCAGCCGCAGGACCTCATCCAGTGGG
CAGCCGATTATTTTGAGGCCCTGTCCCGTGGAGAGACGCCTCCGGTGAGAGAGCGGTCTGAGCGAGTCGCTTTGT
GTAACCGGGCAGAGCTAACACCTGAGCTGTTAAAGATCCTGCATTCTCAGGTTGCTGGCAGACTGATCATCCGTG
CAGAGGAGCTGGCCCAGATGTGGAAAGTGGTGAATCTCCCAACAGATCTGTTTAATAGTGTGATGAATGTGGGTC
GCTTCACGGAGGAGATCGAGTGGCTGAAGTTTTTAGCCCTTGCTTGACGCTCTGGGAGTTACTATTACCAAAA
CTCTCAAGATAGTGTGTGAGGTCTTATCATGTGACCATAATGGTGGGTGCCCCGGATCCCGTTACGCACCTTCC
AGTTTCTCTACACGTATATTGCCAAAGTGGATGGGGAGATCTCTGCATCACATGTCAGCAGGATGCTAAACTACA
TGGAACAGGAAGTAATTGGCCCTGATGGTATAATCACAGTGAATGACTTTACCCAAAACCCAGGGTTCAGCTGG
AGTAAAGCACAATTTTGGCAATTTTAAAGGAAGATACAGAGATGATTGTACTTCAGAATGACTGAAACCCATAT
ACCACCCAAAATCCATTTTCTTGTACAACCTGGTACACACTAATAAACAATTAAAAAAAAA

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FIGURE 2188

MAQTDKPTCIPPELPKMLKEFAKAAIRVQPQDLIQWAADYFEALSRGETPPVRERSERVALCNRAELTPELLKIL
HSQVAGRLIIRAEELAQMWKVNLPTDLFNSVMNVGRFTEEIEWLKFLALACSGVTITKTLKIVCEVLSCDHN
GGSPRIPFSTFQFLYTYIAKVDGEISASHVSRMLNYMEQEVIGPDGIITVNDFTQNPRVQLE

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FIGURE 2189

TTTGGGTAATCTGAGATGTGCTTTAAAAAAGGACCGTTGAGAAAGGGGTGGAGTATAAGGAAACCGCAAGTGAGA
GGGAGTACTCTAGTGGGGTGGGGGTGCCGATACACAGCTAGGCTTAAGGGGCCAGGGAAGGAAGTGGTGCCAGAA
TCCTAGAGATAGTCATGATTACGCAAGAGTTGCCCAGGAGAGTCCATAGCAACCTTGATGCTGCAGGGTGGG
AGCCGGGGGATTCAATACCCCAAACCTCAGCCTCCTCCTCCTCCTCCTCCTCCTGCTGGGGCTCCCCAATAATGGA
ACATGACAAGGAGCCAGAGGGCGAAGGAGCCTGTTGATACCATTGAGAGAGTTCGGCGTCCCCGGGCAAAGGAAG
GGGAGAAGGGTGGGGAGTGGGTCTGGAAGGCCCCATGAAAGACACCTGGCACACCCCCTAAGTACACTAGCATCC
AAAGTTTATGAAAACTTC

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FIGURE 2190A

AAAATACTTGCCCTTTGGAAAAAATCATTCTGGCGTCCACATTTCAGACTGGTTTAGAGGAGAGTAATACTGAAG
ACATGCCCCCCCCGAATCAAGGTAGCAATTGCGGAGATGAAAAGAAATGAGTCCAAAAGATGCTTAAATGTGACCA
TTGAACAGGATTTGACTCATTGGATATGAGGCCATGGAGCAGTGTCTGGCTAGGTGGATGGATGTTGGTGCTGTT
TAGTTAAATAGGAACTGGAAGAGAAGCAGGCTTGCAAGAATGGTAATATTTTGGACGTGTAACCTGTCTGGCAA
GATGTTGAAGAGGTAAAGGAGGCAGCACAGCATCATGGGCCTTGGAGGCAGAAGCCGCTTTGATTTACTCAGAAC
ACCAAATCAGTCTCCATTTTCTTGACTCAGACTACACCAAGAGATTGCTTCCTTCCCTGTGCTTCCTGGCCACT
TGCTACTCTAGCTAGGAAGATCTGCCTCCCTTAGCTGAAGTCTAAGATGTGTAGCTTATTGATGCCTCTCCTCTT
CTTGTTCTGCTGTTGCTGAATATAATGGGGATGCCAGGGCAGACATACCATTCAACTTGAATCTTCCTTACCCAC
TTTGATAGTCTTACATGTCATTGATACCTTGTTTTCTGGTACGCCTAAAAGGAGTAGAAGTTCAAGTGGTATTT
AAAAGCTTTAAGAAAAGTCAAATTTTTACTTTTTTCTTCCCCTCTGAGGCATGGATTTATTTTCTTTTTAAAGAA
ATCCAAATTTTTAAGAAAGGGATCTTATTTTTAAACGAAGATCGATAATATCTACTATGTACTAAATGTCATT
CTTTAAAGTTGTTCCCTCATAATTTAGTAAATTACTTCCTTTTTTAAAAAAGGAAAGAGAGTGTGTGCTT
ACAGGCTAACATCACAAACAATAAGTTTCTTCTCATCCATCTCCATTTATAAACTAGTGTGACTGTCTTCTGAGC
ACAGTATTAAACCTGGACAGGGAGAGGGAGGGTGTAGAGAATGAGAGGGAAAGAGAGAGAATACCTACATATAA
GGTGACCTAAAGAAAAGCCTTTCACCCCTTCGGAAGATCTTTTCATTTTCATTTTCTTTTTTCAAACACCAACT
TGTACCAGAGGGAAGATCTTTTTTTAAAGCGTTTCACTAAAAATTTGTAAGGAAATAATGAGCTAGATAAAATAT
TACAGTGTTTATTTAATGAATTTACTCATATTTAAATAATATCTAAAAAGAGTAATTTAGGAATATTGAGGCAA
TGAGACTTGAAGGTTATAAATAGTGGCAGTGAGAAAAGGAATATTATAGATAAGCTGTTGAAAAGAAAAGATGCT
AAGTTTTCTAGTGCTTCCTTCTGTTTCCAAGGGATTATAGAAATCGGAGTTTGTTTGACCTGTTTCACAGGCATC
TCCTTTGTGGACTCATTGTGTCTCTTCCTTAGGCTAATAGTCACCATTATCATGGACGGTTGTCTAGTGTGTTG
AAGCACACTTAACCTGCTTCGTCAGAGGGTACTTGGCATCACCGGTGCACAGCTGGTGTCTAGCAGGAGACTAA
CTAGCTGACACACCGTGCTTTGTTAGCCTAATAATCTTATTTGTTAAACTTGCCATTTGTTGGATTTTTCTATT
TTACCCCATTTATAAATCTTATTGAGATCAGATGACTTCTGAATAGCATTGCTGTATTTTTCCAAGGTAAAGA
ATATCTTTTTCAGATTTTTCTTTCTTTCTTTAATGTCAGAAATAGAAGAAATCTTTTCTACCGACCTTGTGCCAG
GAGATGTCTAGGTCAATTCATTAAATGGGACAATAATGCCTTGTGATGCTGTGCTTATTAATGGTACCTGCATTG
TAAACGAAAGCATGTTAACAGGAGAAAGTGTTCAGTGACAAAGACTAATTTGCCAAATCCTTCAGTGGATGTGA
AAGGAATAGGAGATCAATTATATAATCCGGAACACATAAACGACATACTTTGTTTTGTGGGACAACCTGTTATTC
AGACTCGTTTCTACACTGGAGAACTCGTCAAAGCCATAGTTGTTAGAACAGGATTTAGTACTTCCAAGGACAGC
TTGTTCTGTTCCATATTGTATCCCAAACCAACTGATTTTAACTCTACAGAGATGCCTACTTGTCTACTATGTC
TTGTGGCAGTTGCTGGCATTGGGTTTATCTACACTATTATTAATAGCATTTTAAATGAGGTACAAGTTGGGGTCA
TAATTATCGAGTCTCTTGATATTATCACAACTACTGTGCCCCCTGCACTTCTGTGCTGCAATGACTGCTGGTATTG
TGTATGCTCAGAGAAGACTGAAAAAATCGGTATTTTCTGTATCAGTCCTCAAAGAATAAATATTTGTGGACAGC
TCAATCTTGTTGCTTTGACAAGACTGGAACCTCTAAGATGGTTTAGATCTTTGGGGGATTCAACGAGTGG
AAAATGCACGATTTCTTTTACCAGAAAGAAAATGTGTGCAATGAGATGTTGGTAAATCCCAGTTTGTGTGCTTGTA
TGGCTACTTGTCACTTCACTTACAAAAATGAAGGAGTGCTCTCTGGTGATCCACTTGATCTGAAAATGTTTGAGG
CTATTGGATGGATTCTGGAAGAAGCAACTGAAGAAGAAACAGCACTTCATAATCGAATTATGCCACAGTGTTTC
GTCCTCCCAAACAACTGCTTCTGAACTTACCCCTGCAGGAAACCAAGAAAATGGAGCTGTTTGAACCTCCAGCTA
CTTATGAGATAGGAATTGTTGCGCCAGTTCCCATTTTTCTTCTGCTTTGCAACGTATGAGTGTGGTTGCCAGGGTGC
TGGGGGATAGGAAAATGGACGCCTACATGAAAGGAGCGCCGAGGCCATTGCCGGTCTCTGTAAACCTGAAACAG
TTCTGTGCGATTTCAAACGTTTTTGGAAGACTTCACTAAACAGGGCTTCCGTGTGATTGCTCTTGACACAGAA
AATTGGAGTCAAACTGACATGGCATAAAGTACAGAATATTAGCAGAGATGCAATTGAGAACAACATGGATTTTA
TGGGATTAATTATAATGCAGAACAATAAAGCAAGAACCCCCCTGCAGTACTTGAAGATTTGCATAAAGCCAACA
TTCGCACCGTCATGGTCACAGGTGACAGTATGTTGACTGCTGTCTCTGTGGCCAGAGATTGTGGAATGATTCTAC
CTCAGGATAAAGTGATTATTGCTGAAGCATTACCTCCAAAGGATGGGAAAGTTGCCAAAATAAATTGGCATTATG
CAGACTCCCTCACGCAGTGCAGTCATCCATCAGCAATTGACCCAGAGGCTATTCCGGTTAAATTGGTCCATGATA
GCTTAGAGGATCTTCAAATGACTCGTTATCATTTTGCAATGAATGGAAAATCATTCTCAGTGATACTGGAGCATT
TTCAAGACCTTGTTCCTAAGTTGATGTTGCATGGCACCGTGTGTTGCCCGTATGGCACCTGATCAGAAGACACAGT
TGATAGAAGCATTGCAAAATGTTGATTATTTTGTGGGATGTGTGGTGATGGCGCAAATGATTGTGGTGCTTTGA

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FIGURE 2190B

AGAGGGCACACGGAGGCATTTTCCTTATCGGAGCTCGAAGCTTCAGTGGCATCTCCCTTTACCTCTAAGACTCCTA
GTATTTCTGTGTGCCAAACCTTATCAGGGAAGGCCGTGCTGCTTTAATAACTTCCTCCTGTGAATTAGCACTAT
TTTCTATAGTTACTTATTCTCTGGATCATTTTATAATTTCCATATTAAATTTCAAGTATGCTCGTGTTATTCTTCA
GTGATTTCCACAATTGTGCATTTTATTCTTTGGTTTAAAGTACTGAAGCATATAATGAAAGTAATTGCTAAGTAGC
AGCTTAAAAATTCAATTATCCGATTGTATTTAACATCTTTAAGAGCATGATCATAAAGAGCTATTTTTGACACCC
CCCCCCCCTTTTTTAACATTTAGAGTTAGTAAGGGTTTTATATCTCTTCTGTCCATATTGTTTTCAAAGGAATG
AGGTGTTTAGGTGGCTGGAAAAGCATTGTAGGAAGTTAGATTTGAATATAGACAAGGTGGGTATTTCACGTTGA
GAATGTTATTTGAAGAATGCCTGTGAAGCCAGGTGTGGGTTCTACTCAGTGCCATAGATAGACTGAGTCTTCTCT
CGTAGGTTACCATTACATAGTAATTTTGATTCTGAATTTACATTAAATTATTTGAGTTTATACAGACCTAAATT
TTAAATCTGTACATATATTATTTTGATGTATTAAGATGAATATTGCTGATTTAAATTTTATTTATGCACATACT
TAAAGGACAGAAATGTCTGGGAAAGTAATTGTTAAATAATGATATGTAACTTTTTAACTTTTTAAATAAATAACA
AGATTTTTAATGTGTGTCTCCCTCAGGGTTGTTTAAAGTTTTTTTTCTCCCTCAAGTATAAATAGTGCTAACTAT
ATGTTTTGTATCTTCTAGCACCAACTGCTGTAAAGCAATGCTGCAAATAATGCTTGAATACAAGTGGCTAAGCCA
ACAACAGAATAAATACTTTTATAGTAGTTTTTATAATCCTGAAATTCGAAAGCTTTCCCAATTGCACTTGCATCTA
AACAAACTGTTGCAGTTTTTACTCTATTTATTTTGTTCCTCATGTTTATGAAAGTCCTGCACAGTTTCAAAGGC
ATGGTAAATAATATATCAATGTTTATGTAGTCTGTTACAGAAACAGCTATAGATAACATTATCCAGTGAAGAGCA
AAATTCAAGCTTTAGAAAAATATTCATGCATGCAATTTTGACATATCTAAAAATAGGTTTTTGTATATTTATGGTG
GGAGGTGGTTGGGAACTTTTAACAAAATGGGGTGTTAATTTTTGTACAGTCTGTGGGCATTACACATTTTAAAT
GTATTAATAATTTGGTAATTATGTGTACATTAAATTAATAAAAGTTACTTCTAGTTATGATTGTGAATTCCTTAA
GACCTTGGATTTTTTTAAGTAACTTTATATCAGAAATGATACTGCATCTTTATATTTTTAAATTTGTATTGCTGC
TCAAGAATGGTACCTCTTGTCAAAAAGGCATACATTATAATTGTACATTCAGCATTGTAAATAATCTTATGAA
ACCTTTTTTGATTGAAGCTATTCAAATAAAAAATTTTAATGAATGAAATAA

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FIGURE 2191

MSEIEEIFSTDLPVGDVMVIPLNGTIMPCDAVLINGTCIVNESMLTGESVPVTKTNLPNPSVDVKGIGDQLYNPE
THKRHTLFCGTTVIQTRFYTGELVKAIVVRTGFSTSKGQLVRSILYPKPTDFKLYRDAYLFLCLVAVAGIGFIY
TIINSILNEVQVGVIIIESLDIITITVPPALPAAMTAGIVYAQRRLKKIGIFCISPQRINICGQLNLVCFDKTGT
LTEDGLDLWGIQRVENARFLSPEENVCNEMLVKSQFVACMATCHSLTKIEGVLSGDPLDLKMF EAIGWILEEATE
E ALHNRIMPTVVRPPKQLPESTPAGNQEMELFELPATYEIGIVRQFPFSSALQRM SVVARVLGDRKMDAYMK
A AIALGLCKPETVPVDFQNVLEDFTKQGF RVIALAHRKLESKLTWHKVQNISRD AIENNMDFMGLIIMQNKLK
A AAVLEDLHKANIRTVMTGDSMLTAVSVARD CGMILPQDKVIAEALPPKDGKVAKINWHYADSLTQC SHPS
AIDPEAIPVKLVHDSLEDLQMTRYHFAMNGKSF SVILEHFQDLVPKMLHGTVFARMAPDQKTQLIEALQNV DYF
A AAGDGANDCGALKRAHGGISLSELEASVASPFTSKTPSISCVPNLIREGRAALITSSCELALFSIVTYS LDHF
A AALISSMLVLFFSDFHNCAFYSLV

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FIGURE 2192

CCTGCCGTTGGCGGCCTGAGTCCGCAGCGCCCTGCKCCACCCGCCCGGACGTGGGGCCCAAGCCCCGTGAAGA
TGGTGTCCTGGATGATCTCCAGAGCCGTGGTGCTGGTGTGTTGGAATGCTTTATCCTGCATATTATTCATACAAAG
CTGTGAAAACAAAAACGTGAAGGAATATGTTTCGATGGATGATGTACTGGATTGTTTTTGCTCTCTATACTGTGA
TTGAAACAGTAGCCGATCAAACAGTTGCTTGGTTTCCCCTGTACTATGAGCTGAAGATTGCTTTTGTGCATATGGC
TGCTTTCTCCCTATACCAAAGGAGCAAGTTTAATATATAGAAAATTCCTTCATCCACTTCTTTCTTCAAAGGAAA
GGGAGATTGATGATTATATTGTACAAGCAAAGGAACGAGGCTATGAAACCATGGTAAACTTTGGACGGCAAGGTT
TAAACCTTGCAGCKACTGCTGCTGTTACTGCAGCAGTAAAGAGCCAAGGAGCAATAACTGAACGTTTAAGAAGCT
TCAGTATGCATGATTTAACAACCTATCCAAGGTGATGAGCCTGTGGGACAAAGACCATAACCAACCTCTACCAGAAG
CMAAAAAGAAAAGTARCCAGCCCCCAGTGAATCAGCMGGTTATGGAATTCCACTGRAAGACGGRGATGWGRAAAC
AGATKAAGAAGCAGAGGGGCCATATTCAGATAATGAGATGTTAACACACAAAGGGCTTCGAAGATCGCAAAGCAT
GAAATCTGTGAAAACCACCAAAGGCCGCAAAGAGGTGCGGTACGGGTCACTAAAATACAAAGTGAAGAAACGACC
ACAAGTGATTTTTTAGTCATCTACACGTCAAATATCCCAAGACAGATTATGCTAAATACATCGACTTCATCTTCT
AACATGATATATTCAGGATTACACATTAAAATGATTATTTAAATTGTGGCAGTGATGGGGTTTACTTTTCATGAA
TTTAAATTGTTTTTATTTCCCTGTAACAATTGCTTCCAAATATTGACTACTAAAGGCAGTTCTGCAAGATGTACTA
AATATGTATATTAGAAATTATAGAAAATCATGTTGTCCGTTTTCAAATTCATCAACAGCCTAGAGTGCCTGAGAT
ATAAGATGAAACACAAATCCACAGTATACTTGAAAGGAGCCTTTTTACGGTTCAGGATAAATCAGCCTTTGTGAT
GTACTGTGTTTACCTCCTTTTGTGTTGTATCTGGTAATTAAAXTAGGGCCCAGATTCAGCAAGTGACATXACAA

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FIGURE 2193

MVSWMISRAVVLVFGMLYPAYYSYKAVKTKNVKEYVRWMMYWIVFALYTVIETVADQTVAWFPLYELKIAFVIW
LLSPYTKGASLIYRKFLHPLLSSKEREIDDIYVQAKERGYETMVNFGRQGLNLAATAAVTAAVKSQGAITERLRS
FSMHDLTITIQGDEPVGQRPYQPLPEAKKKSXQPPVNQXVMEFHXKTXMXKQXKKQRGHIQIMRC

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FIGURE 2194

TCTACCTCCTAGCAAGTACTTTGTCTTGATCCTCACTGAGAAGGCCCCAGGGCAGCGGTCTTCTCCATCTCCGCT
GTTTTGGGGTCTTAGGGTACAGCCCAGGCGGTCACTGCCCACCTGCCAGGCTGCAGGGACAGTTGGGTGTGAGAA
TAACACTGGGCTTTGGGTAGTGCCATGGCCAGGAGTGGGTTTCCCTGCGTCTCCTCGTCCCAGGGCGCCTGGGTC
CTCCCAGCTGACGGCAGTAAATCCACAGTGAGTTGGGGCGACTGTGAAACTGGAATGCTGTACTTTGATAATTA
CTTTCCAGCAGGTGTTTTCTTTCACAATGGTTTTGTCTTTCTTCTGATCTGAGAAGACATGAACGTTTTCTC
TTCACCGCCGTGGGGTGTATTGACTGGTCCCCCATGGGCTGCTGGAAAGGCGGAGATGCATCTGTGGCCTGGG
GCCATCAAGATCAAAGAACCAGGAGGCCTGGGAGATGCAGCTGGATGGGGCGGCCTGCAGACCCTGCCAGGGGGT
TTGAGGACCCTCCCAGGTTTCCCCTGCGGAACAGGAGTGAAGTCTGGCTGCCAAGATACCTTCATGGTGTTCATG
ACAAGTGGAATCATTATTTTCAACCATTTGAAGGGGGATGCAGGCAAGACACCTTCCCAGCTGCTCCTAGAGGGGA
CAAGCCAGGCCCTCTCTGCAGTCCTCGGCAGCTCCGGAAGGACACAGTCAGGGGCCGGGCAAACACTTTGGCCAC
AGCCCCAAACAAGCGCCACCGTGGGAGAGGAGAGGCTGCTGTCACTGGTACCGGATGCAGACCCACCCCTGTCTG
CAGGCCACCCACCTCCCTGCAGCTTTGAGGCTGGCGGGTCTGCTCCTGGGAATGGGGTGGGAGCCACAGGGA
CGACCCGGGGGCGGGCTGATGTCTTCTTGGGGGCAGACCAGAGAGCTCAAGTTTCAGAGTCAGAATTAGGCATT
GGAGCGTTTTTGCTGGCTTGCACTTTCTTATTTTCTTATTTTAGAGCGCTTAAAAATCCGGAAAAATGGGGTTT
AAAAGAACTGTCTCTTTTCACTCTACATTTTGTTTAATACGCTTGAGCAATAAACGCTGACTTGCAGACGTGAAA
AAAAAAAAAAAA

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FIGURE 2195

MHLWPGAIIKEPGGLGDAAGWGLQTLPGGLRTLPGFPLRNRSDSGCQDTFMVFMTSGIIIFNH

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FIGURE 2196

CCCAAGGCTGCCCCCTCGGTCACTCTGTTCCCAACCCTCCTCTGAGGAGCTTCAAGCCAACAAGGCCACACTGGTG
TGTCTCATAAGTGACTTCTACCCGGGAGCCGTGACAGTTGCCTGGAAGGCAGATAGCAGCCCCGTCAAGGCGGGG
GTGGAGACCACCACACCCTCCAAACAAAGCAACAACAAGTACGCGGCCAGCAGCTACCTGAGCCTGACGCCTGAG
CAGTGGAAGTCCCACAAAAGCTACAGCTGCCAGGTCACGCATGAAGGGAGCACCGTGGAGAAGACAGTTGCCCT
ACGGAATGTTCATAG

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FIGURE 2197

PKAAPSVTLFPPSSEELQANKATLVCLISDFYPGAVTVAWKADSSPVKAGVETTTPSKQSNNKYAASSYLSLTPE
QWKSHKSYSCQVTHEGSTVEKTVAPTECS

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FIGURE 2198

AGCACTTTTCATTGGACGAGCCAATCATTTCTTCACTGTAAC TGACCCAGGAACATTCTGTAAACCAACGAACAA
CTCGAGAGTGCGAGAAAAATAGTACATGATTACAGGCAAGGAATTGTTCCCTCGGTCTTACAGAAAAATGAATTG
TGGAGAGCAAAGTACATCTATGATTACAGCTTTTCATCCTGACACTGGTGAGAAGATGATTTTGTATAGGAAGAATG
TCAGCCCAGGTTCCCATGAACATGACCATCACAGGTTGTATGATGACGTTTTACAGGACTACGCCGGCTGTGCTG
TTCTGGCAGTGGATTAACCAGTCCTTCAATGCCGTCGTCAATTACACCAACAGAAGTGGAGACGCACCCCTCACT
GTCAATGAGTTGGGAACAGCTTACGTTTCTGCAACAACCTGGTGCCGTAGCAACAGCTCTAGGACTCAATGCATTG
ACCAAGCATGTCTCACCCTGATAGGACGTTTGTTCCTTTGCTGCCGTAGCTGCTGCTAATTGCATTAATATT
CCATTAATGAGGCAAAGGGAAC TCAAAGTTGGCATTCCCGTCACGGATGAGAATGGGAACCGCTTGGGGGAGTCG
GCCAACGCTGCGAAACAAGCCATCACGCAAGTTGTCGTGTCCAGGATTCTCATGGCAGCCCCTGGCATGGCCATC
CCTCCATTCAATTATGAACACTTTGGAAAAGAAAGCCTTTTTGAAGAGGTTCCCATGGATGAGTGCACCCATTCAA
GTTGGGTTAGTTGGCTTCTGTTTGGTGTGTTGCTACACCCCTGTGTGTGCCCTGTTTTCCTCAGAAAAGTTCCATG
TCTGTGACAAGCTTGGAGGCCGAGTTGCAAGCTAAGATCCAAGAGAGCCATCCTGAATTGCGACGCGTGTACTTC
AATAAGGGATTGTAAAGCAGGGAGGAAACCTCTGCAGCTCATTCTGCCACTGCAAAGCTGGTGTAGCCATGCTGG
TGAGAAAAATCCTGTTCAACCTGGGTTCTCCAGTTACGGAAACCTTTTAAAGATCCACATTAGCCTTTTAGAAT
AAAGCTGCTACTTTAACAGAGCACCTGGCGTGGGCCAAGTGCCTGATACTCCCTTACACTGAATCATGTTATGAT
TTATAGAAATACCTTTTCTGTAGCTTTTATAGTCATTGTTTTTCAAAGACGATATACCAGCCCTCACCCAGGTTT
TAAAAAGCACTGGTAGGCATAGAAATAGGTGCTCAGTATATGGTCAGTAAATGTTCTATTGATTATCAATCAGTG
AAAAAGAAATCTGTTTAAAAATACTGAATTTTCATCTCACTCCCATTGCAAATCAAGGAGATCTCAGCAGTGAAC
TGGGAAAATACAAAAGCTCTGGGCTAATCTATAAAAACCTTACCCTGAAATATTAAGGGCAGTTTGTCTTAGTTT
GGGGATTGCGCTAGCCCAATGAAGGTGATGAAGCTTTTGGATTGGAGGGTAAAAGCTCCTTCACACCCCTTCCA
AAAGTCAGTCACAGACCACTGCAACATGCCTTCCCTGCTGGATCATTATATACATTTCAGATTGTGAGTGGATTGC
CTTGGTTGACTTTTAAATTTATTGTTTTTTGTTCTTATAAAGATGATAATCTTACCTTGCAATTATTGACTTTATA
TTCAATTATTTACATCAAATAATGAAATAACTGAAATGTACAAATGTCAAATTTTGGAAAGTATATTCAATACCAA
TGCTGTATGAGTGGGCTGAATCCAGTTCATTGTTTTTTTTTGGTAAGAAGTGAGACTACAGTTCAGCTACCTA
CATGCTTTTTCTTGTCATCCTTATAGATCTCTTTGGCTTTTCAAGATACAGTGATAATGTGTGTATGAATCAG
TCACAATGAATTTTACTTGAATATTGTATGTTGCATTCCACTTCATTTGAAAATAATGAAACCATGTACCACTGT
TTACATCATCTGTAGTGATTTCATAGATAATATATTTAATATGACAGATTATGTTTCAACTCTGTAGATGTTTAA
CGTCATAGACAGTTGGCCCTCTGTATCCGTGAGCTCTATATCTGTGAATTCACCAAGTTTGGATGGAAAATTTT
TTTTTTTTTTTTTTTTTGGAGACGGAGTCTCGCTCTGTCAACCAAGCTTGGAGTGCAGTGGCGTAGTCTCGGCTCA
CTGCAAGCTCCGCCTCCTGGGTTACGCCGTTCTCCTGCCTCAGCCTCTCTGAGAAGCTGGGACTACAGGCGCCC
GCCACCACGCCCCGCTAATTTTTTTTGTATTTTTTAGTAGAGACGGGTTTCACTGTGGTCTCGATCTCCTGACCTC
GTGATCCGCCCCGCTTGGCCTCCCAAGGTGCTGGGATTACAAGCGTGAGCCACCGCACCCGCGCTGAAAATATTT
TCTAAAAAGATAAAAAATATACATAACGATGAAAAATAATACAAATTTAAAAACCAATACAGTATAACAACTATT
TACATAGTGCTTACATTGTATTAGGTGTTATAAGCAATCTAGAGATGATTTAGCAAGTATACAGGAGGATGTGCC
TAGGTTATATGCAAATACTGTGCCATTTTATATCAGGAACCTTGAGCATCTGCAGATATTGGTATCGGAGGGCGGT
CCTGGAACCAAGCATCCACGGATACTGAGGGGTGACATTTTATGAAGTGTAGATCATTGTATTTCAGAGATTGTAA
ATGAAAAAAATATAGAACTATTTAGTTTTGGTAGATTTTTTTTCTGACAATGTGACCAGACTGAATTTCTCAT
AAAGAAAAAATGGCGTGCTTGTGTCTGTGTTTCTCTTTTCTCTGAAAGGATTAATAGATCTGAAGCTTTGGGCC
ACTTAGAGCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2199

MILIGRMSAQVPMNMTITGCMMTFYRTTPAVLFWQWINQSFNAVVNVTNRSGDAPLTVNELGTAYVSATTGAVAT
ALGLNALTKHVSPLIGRFVPPFAAVAAANCINIPLMRQRELKVGIPVTDENGNRLGESANAAKQAITQVVVSRILM
AAPGMAIPPFIMNTLEKKAFLKRFPWMSAPIQVGLVGFCLVFATPLCCALFPQKSSMSVTSLEAELQAKIQESH
ELRRVYFNKGL

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FIGURE 2200

GCGAAAGAGAAAAAGGCTGGAGCTCCCGCCCCCGGGGCTGTCAGATGGCTTGGGTTTCTGCGACGCGATTGGCTC
GCGGAGGGCAGAAATTACTCAGCAAACATGACTATTATTAGCTGCTTAGCAACAGCTCACCAAAGTAGAGAGACC
ACCCAGGTAGGCAACCCAGTGTGTGCATCCTCGGCTTCGGGGCAGCCTCTGAGAGCGCCAACCTTCTCGCATGCA
ATACTTCCATTAAGGAATGCTCCCCCTCCTTTCTCTCTTATTCTTTTCTTTTCAACAGTGTCTTCTTTTTGTGG
GATGCCTTTGCGCGCACACACGCGCGCGCASGCACACACGAACATTTGCCTCGCGGTAGACACGGGGGGAAAT
GTWATATTTTTTTAAGCGCTTAAACAATTTCTGAAATTCCTCAAAGAAAAGCCTTTCAGARGCACCTTGGCCTCA
AGCTGCAACAAATACTGGGARGTCCGGCTCGCATTCCCAGGCCTGCACCAATAATGACAGCGTGCTGGATARTGC
GCCAGTGTGTGCCAGATTTTTTTTTTCTCTTCTCTTTCTTTTATAACTAAAGGGAAGACTTAGGCTCTTGCAGG
GAACAACGCCTCGCATTAAAGATAAACAGAATGGAAAGTTAAAGAGGAAAGCAAGGACGTTGGGAAAAGCCATCTT
TCTTAAATCCGCTCTGCCCCCAGCCGCTTTCTCC

2423/2682
FIGURE 2201

MTIISCLATAHQSRETTQVGNPVCASSASGQPLRAPTFSHAILPLRNAPPPFSLIPFLFNSVFFLWDAFARTHAR
AXHTNICLAVDTGGNVIF

2424/2682
FIGURE 2202

CATCCATCCAAATTTGAAGATCCTATATTAGTTCCTCTTCAAGAATTTGCATGGCATCAATATCTACAGGAGAAA
AAAAGGGAACCTCAAAAATGAAACCTGGGAATATTCTTCCTCTGTGATTTCTTTTGTTAATGGTCAGTTTCTGGGT
GATGCATTGGATCTGCAGAAATGGGCCACGAGGTGTGGGATATAGTTGACATTAAACCCTCTGCACTTTATGAC
GCACTCACTGAGGATTTTTCCGCTAAGTTCTTAAGAGACACCAAGCTATACTGTGATGTGTGTCCCAAAACATGT
AAAAATTTTCAGGTCTTGTGCACAGGAAAAGCAGGGTTTTCTCAACGTGGCATAAGACTACATTACAAAAATTCC
ATTTTTCATCGAATAGTACAGAATGGCTGGATACAAGGAGGGGATATAGTGTATGGAAAAGGAGATAATGGAGAG
TCGATTTATGGTCCAACATTTGAAGATGAAAACTTTTAGTTCCTCATAATAAAAGAGGAGTACTTGGAATGGCC
AACAAAGGCCGTCACAGCAACGGGTACAATTCTATATCACACTGCAAGCAACTCCTTATCTAGATAGAAAATTT
GTGGCTTTTGGGCAACTGATTGAAGGAACAGAAGTGCTTAAACAAC TAGAATTAGTTCCAACACAGAATGAAAGA
CCAATACATATGTGTAGAATTACTGACAGTGGAGATCCTTATGCTTGATTTTCATATCAATATTTTCTGTGATAA
TTTATTACTTTGTATCTGATCAGCTGTTTGTGGATTTAATTAAAAAGTACTTGATAAATTGTAAAAA

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FIGURE 2203

GCCCACGCGTCCGCCCACGCGTCCGGCCCTGCAGACAAGCGTGCCGTGCGTGCTTGTGGCCAAGGGAAGGAAGAG
CTGGTTGATCCACAGATAGCTCCTTCCTCCCCGCCCTTCCTTTTTGTTGGAGGTCCCAGGATCTGTGTTTACA
GACATCTGGGGGAAGAAAAGGAGCAGGAACTACCCCGCACAGAGTTAAGCAGGAAACAACAACATCATGCA
AAAACCCTGCAAAGAAAACGAAGGAAAGCCAAAGTGCAGCGTGCCAAAGAGGGAGGAAAAACGCCCGTATGGAGA

* TGA

2426/2682
FIGURE 2204

AHASAHASGPADKRAVRACGQGKEELVDPQIAPSSPPLPFCLEVPGSVFTDIWGKKRSRKLPRTELSRKQQQHHHA
KTLQRKRRKAKVQRAKEGGKTPVWRI

2427/2682
FIGURE 2205

ACTTCAGTTGGGCTGAGGCGGAGGAGCCGCCGCTTCTGACCTCGCTCTGGCTCCGGTGCGCGCGGCTGAGCGCGT
GCGAGGCCCCGCGCGTCGGGCAGGGGCGGCGGCGGCCACTGCGCGCCGCCCTGAGGAGCGCCCCAGCGGCGGCGC
GACTGCGGCTGAGGAGAGAGCCGGCTCCGGGCTCCGCGTCCTCCTGCTCCCCCGGGCCCCCGCCTCCTCGGGGG
GGCGGCGGCGACTACGGACTGGTGACGGCCGGCTGCGGCTTCGGGAAGGACTTCCGTAAGGGCCTCCTCAAGAAG
GGCGCGTGCTACGGGGACGACGCGTGCTTCGTGGCCCGGCACCGTTCCGCGGACGTGCTCGGGGTTGCAGATGGT
GTAGGAGGCTGGAGAGACTATGGAGTTGATCCATCTCAATTCTCAGGGACTTTAATGCGGACGTGTGAACGTTTA
GTAAAAGAAGGACGGTTCGTACCTAGTAATCCCATTGGAATTCTCACCACAAGCTACTGTGAGTTGCTGC

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FIGURE 2206A

TTAAATAAGTAGGGATTGTTTTAAAAAAGCTGTAATATGTTATCTGGGGGTGGATGATCCTGGTGTAGTTAA
AGCTCTCAGTGATGTCTGTGCTGGGACTTCCGGGTTCTGTGGACTTTTCCTCCCAAACCTTCACCAGGAACCTGA
CAATGGCGAAGCCCTTCCGAATCCATCCCATCAGCTCCTGGGACACTGCCTCATTTTCATAGAGGAGCCAGATGA
TGCTTATATTATCAAGAGCAACCCTATTGCACTCAGGTGCAAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATG
CAACGGCGAGTGGGTCCATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCG
CGAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCGAGGACTATTGGTGCCAGTGTGT
GGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTGCGCATAGCCTATTTACGGAAAACTTTGA
ACAAGACCCACAAGGAAGGGAAGTTCCATTGAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCC
TGCTGCCGAGGTGGAATGGCTGAAAAATGAAGAGCCCATTGACTCTGAACAAGACGAGAACATTGACACCAGGGC
TGACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATGGCAGCCAACATCGT
GGCTAAGAGGAGAAGCCTGTGCGCCACTGTTGTGGTCTACGTGAATGGAGGCTGGTCTTCTTGACAGAGTGGTC
AGCCTGCAATGTTTCGCTGTGGTAGAGGATGGCAGAAACGTTCCCGGACCTGCACCAACCCAGCTCCTCTCAATGG
TGGGGCCTTTTGTGAGGGAATGTCTAGTGCAGAAAATAACCTGCACTTCTCTTTGTCTGTGGATGGGAGCTGGGA
AGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGAACATTTGCGGATCCGGGAGTGCACAGCACCACCCCC
GAGAAATGGGGGCAAATTTCTGTGAAGGTCTAAGCCAGGAATCTGAAAACCTGCACAGATGGTCTTTGCATCCTAGA
TAAAAAACCTCTTCATGAAATAAAACCCCCAAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGCTTGGG
TGCTGCCGTCTGTGGCCGTTCAGTCTCTGGTCATTGGTGTCAACCTTTACAGACGGAGCCAGAGTGACTATGGCGT
GGACGTCAATTGACTCTTCTGCATTGACAGGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGGTAACTC
CCTGCTCCTGAATTTGCCATGCAGCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCTGTCTGCAGGA
CCCTCTGGACAAGGAGCTCATGACAGAGTCTCACTCTTTAACCCTTTGTGCGACATCAAAGTGAAAGTCCAGAG
CTCGTTTCATGGTTTCCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTTCCCCA
TGGAACAACCACAGCTTTAGTACAATGCATCCAGAAATAAAATGCCCTACATCCAAAATCTGTCACTCACTCCC
CACAAGGACAGAACCTGAGGACAACCTGGTGTCTTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGT
GAGCTTACTCATACCACACGGTGCCATCCAGAGGAGAATTCTTGGGAGATTTATATGTCCATCAACCAAGGTGA
ACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCTGAAGTCACCTGTGGTCTCCAGACATGATCGT
CACCCTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCTGAGCATTGGAATATCCATTTAAAGAA
GAGGACACAGCAGGGCAAATGGGAGGAAGTGATGTCAGTGGAAGATGAATCTACATCCTGTTACTGCCTTTTGGA
CCCCTTTGCGTGTCTATGTGCTCCTGGACAGCTTTGGGACCTATGCGTCACTGGAGAGCCAATCACAGACTGTGC
CGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCTGTAACCTCCCTGGATTACAACCTTGAGAGTTTACTG
TGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTTTCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGA
ACCAAAATTGCTGCATTTCAAAGGGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATTCCCCCATTCTCTG
GAGAATTAAACCATTCACTGCCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAGCCCCCTGCA
CTGTGCCTTCTCCCTGGAGCGTTATACGCCCCACTACCACCCAGCTGTCTGCAAAATCTGCATTCCGGCAGCTCAA
AGGCCATGAACAGATCCTCCAAGTGCAGACATCAATCCTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACA
AGAGGACAGCACTTTCCCTGCACAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTG
TGCTACATTTGATACCCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATCAACAGGAA
TTTATCTTATTTGCTACACAAAGTAGCCCATCTGCTGTCAATTTGAACCTGTGGGAAGCTCGTCATCAGCATGA
TGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAGATTGGGAGGACACACAGAACTCTCAAACATTTTCTCAGA
ATCCCAGCTTGATGAAGCCGACTTCAACTACAGCAGGCAAAATGGACTCTAGTCCACTTCTCCCATGAGACAGA
GTGATGGCCAGCTTGGGGACATTTGCTTTAAATGGGAAAAGAGGCCGCTTTCTGCCAGTGGCGTTGGGGGAATTC
AGCCTTCATTTATAATCAGTGAGATTCCCCTGTTGAAGAACTAAATTTTATATAGGTAAACATGTTAATAGGG
AAGAGTACAAGCTCTCTTACATATAAGAGGGCTCTACTATCTCCTTGAATCCACATTTGGGTAACTCCTCAGA
TTTGGAGTGGCAAGGATAAAAGTGAGGGCAGAAAGTAGCTGTGGGAAAAGATGAGCTATGATAATGCTGGGAAGGC
AGAGATTGATTAAGTGCATGCTTTGAAATAGGTTTTTAATGATGTGCCCAAAGGGCCAGCTGATTCTGGTACTA
GATTGTGAGAGTTTTCTACCAACTGGCATCTGTGATGTGAGAGATCATTGTAAAAATGGCTTTTACAGCTGAAAC
AGGGTTGCCAACCCATTTGTATGACTTCAACAACGTCAAGGAGGGCATTTAGAATTTAGAATCTGAGCACATCAC
ACCAGCACCAGCTCCCTGTCTCTTCTAGCCACTTAATGGAGACACAATGGAGAGGTAAGACAGACCACAACTAG
TTCTTATAGTGTACTCCACCTTTTACTTTTTTCTGAGACAAATCTACCCTTATTCTTTCTTCTCTTCTTACC

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FIGURE 2206B

CCTTGCAGTAGGGAGGTATCAAGGAGCATAATTAACTTGTCAATACGGAAAGTTGTTTTTTCTAACACAACAAA
GTGGGACCATCTCTATTCCCCTCTAAGCCACTCAAATTGCTGAGTGCTATTAGAACACAGCTTATTACATGGATA
TGGGGACAGGAGAGATTAAAGCAGGTTCAAAAACACATGAACATGCAGATGCCATAGGCCTCAAATCAGCTGTAAT
TCTAGGAGACACGTGTTGATCTAGTTATCTAACATTGTTGTTATAAGAAAATGAGTTTACTGCATTTTTTCAATCC
AGATTCTTGAAATTGTCTAACATGTGGGTACTGTGTCATCACAAAATCTCTCAGTAAGGCTATATGTGATCCTCA
TTTTGCCTCTTGGGAAATTAGCAGATAGTCTTTGCTCTAAATGATATCTGAGTAAATAGACTTGAGGAATCCTCT
ACCACAGTGTCCCTGAAACCACATGCATCATTAGGAAGCCTTCACCCTGTGACTATTACAGCCTCCCTGAATATG
CTTTCTCTATAGAACCCTAACATATGGCTATTGCTCTATGATTTTTTTTTTTTACATTAGGAGGCAGTGATATT
GTGGAAGATTGAAATCCACAGATAATTGATGACCCTCATCTTATCACTTTACTCCATCTTTTTATCCTATTAAAT
TATTTTTGACAAGATGTCTGGTAGACTAAAGGTGAACAGATTGCTCTTGCTCATCTTCTGGTGGATATTTTTAA
CTTGCTATTACAATCAGGACAACCAAAGTCAAGGACCCAGATGAACCACAAGGCAGCTAGTCAGCTACTTAGAG
GTTGGTTACATTGCAATAAAAAAGTAGTCAGGGAATGGGGGAGGTGGGGAGTTGGGGAGTACTTGGCAGTTGGGAT
ATGATCCATTTTTTTTAAACAAGTTTTTTGTAGATCCCTTGTAATAATAATAATAATGTTGTGAATCTCCATGC
CAAGTGAAAAAGGCCTAAAGATGAGTTGAATTTGTGATACCATGGGTAAGGCATGGAAGAACTCTGAATGTGTT
GGCCATTTTCTCTAACTAACATGTGGTATGTATGGTCCCCTATATTAGATAGAAGTCTTTGCTACATGTAATTCA
AAAGCATCTCGCTTTTCTCAGGAACCAAAGGCTTATGATGTAGGACAAAGAAATCATCTTAGAACTGTCAAGCAT
ATTTTCACAATACCATGTCAAGATCAGGAAAACACCCTTTTGCTAGTGTGCTTAACTTATTTATTTCTTCTAGGA
AACAATAGATAAACAGCATGAAAATGTAAATCATCTGGCATCACTGATAGAATTTCTGAAAGAGAAAGAGAAGTA
GATGGTCAACCAGTCACTAGTTGGTTGGCATGAGGTGGTGTGCAGAGGAAAAGCTGCATTCACTATTGAGTAAAA
CTTGTAAGAAAGCACATTATAGAGCTTATGTTGGAATCCATCTTGAGGATTTTTGTTTTAACTGTCTTTAGCAT
TTCCCTCTTCCCTTCTAATGGGCATTATAATTGTTTCATCTACTCTGTGAATCTACATAGGTCTTTTTTTTTTAG
ATGTTTGATACATTTTAAAGTATTTTTTAAATAGATGAAAATCTAAATGATTTTCCCTCAAATCTATCTAGATTAT
TTTAAGATGAGACAAGATTATTGTCAATCCCTGAATGTCTGGAGTTACCTCCCATGGATTTTTTTTTTCCCTTGGC
CTGGGTTTTATAAACAACCTTGAACATCATATCATATAGGATAACAAAGGAGGAAGTTAACTTAATTCACCTCAGA
CTTCAGCCTAAGATTCAATCAAATTCATCCTTCAGCCTGTCTTGTTTCTTCTTTATGTTTCTTTTACTTATTGCT
GCTAGGATCCTACATAGGATTTCTATAGAAATGTATGAAATCTGTGGTCACTGCATGTCAGGATTGCACAGTAT
GTTACAATACAATTTCAAAGAGAACCCACATTTGTGAGATTACAGACCAAGGTGTGGTGGAGGAGGTAGAATTG
CAGATCAGATAAAAAGTGAGCTTACACTTGAACCTAGTTATTCACTGTGACCTAAATTTAGTCTATTGTAATAT
GTGCCTGTCAACACAAAATACCCCTCTTGAAAGAGATTACTCATCTATCCAAGCACTTAATTTGGAAATTTTA
TTGTCTATTGCAAAATGAAACAAAATTTAAAGTGGCCTCGAGTACTTGGTAAGTTACTTAAATTTTTACAAAA
ATATCCCACTCAATGCCAAATCTTTAGTCTCAAAGGCATTTAAGTCCAATAGTCATGCTTTAAATATGGCTTT
AAATTATGCCACCAAATGGTGCACCTTCACAGATTCACCAGACTGTAGCATCATAAAGTTAATTTACAGTTTTTA
CAACATTGCTTCTACATTCTTACTGGTTTACATTAAATCCTTTAAGCCAAAAGGAAGCTTGCTCTATGGATTTA
AATGCAAACCTTCATTTACCAGTGCAGGAAGTCTCATAAACTCAGATGTACTCCACAAAAATTTTATTGGCCTT
TTTGTAAAGAGATGAAAAAGAATTGACACAGTTCTCTTTAAAGAGAAGAACTTTTTTATTATTATTTTATCTCCA
ACTGCAGGTGGTGTCTTTTGCCAAGGTCTCTGTATTTTTCTTTTCAAGTTGTCTTTGGGAGGGGATGTTAAGTCAAA
TCACTAAAACAGGGTTCTCTTTGGATTAAAAGTTCTGGATTTATTGCAACTATTTTCCCTTGAGAAACATTCTCAG
CATCAGGATTGATAAACAAATGTAGATGATTAAAATAGGATAATTGGTTTTAGATAATATCTTCTACTGCCAAAC
TTCTGGCAAATTTACCTGTGAATTTCAAAATGTTATAAAATCTCTTGATATGCTTTTGTTTTTCTTTTAGCCAT
TTTCTCTTCAATTTCTTAGTCCCTCTGCCCTCTGTAAATGTGTTGAGTGATATAGCTATCAGATGTATTGAAGGC
AAAGTTCTCGCAGAGGTCTCTGTTCAGCTCTGTAAAGGTACAGGAATCGTGAAGGAGCTGAGAAATCTTCCTC
TCCGGCCCACTGTCTGTGGCCCATTTGTCATTGTTTCCCTCATGAAACATTGCAGAGTTTGAATCCTCAGTAACTCT
CATTGACTGGATTAGAGGTGATGGCCACAGCAAATGGGAGAGCAAATGTTGGCCTACAGAGAATGACACAATTT
TATTCCCTTTGGTGTAGTTGCCATAGTGCTGTATTTGAAAATCGATGCTTTAGCCAAAAGCTGAATGACCACC
GTTTCCGTAGTTTCCACTGTTTTGTCTGCATAGAATTTTCTGAACTACAAGCAAAAATGTATTTTGTCCAATGT
CACAAAAGTGAAAATGTTACTAATCTT

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FIGURE 2207

MILVLVKALSDVCAGTSGFLLDFSSQTSPGTDNGEALPESIPSAPGTLPHFIEEPDDAYIIKSNPIALRCKARPA
MQIFFKCNGEVWHQNEHVSEETLDESSGLKVREVFINVTRQQVEDFHGPEDYWCQCVAWSHLGTSKSRKASVRIA
YLRKNFEQDPQGREVP IEGMIVLHCRPPEGVPAAEVEWLKNEEPIDSEQDENIDTRADHNLIIRQARLSDSGNYT
CMAANIVAKRRSLSATVVVYVNGGWSSWTEWSACNVRCGRGWQKRSRTCNPAPLNGGAFCEGMSVQKITCTSLC
PVDGSWEVWSEWSVCSPECEHLRIRECTAPPPRNNGGKFCEGLSQESENCTDGLCILDKKPLHEIKPQSIENASDI
ALYSGLGAAVVAVAVLVIGVTLYRRSQSDYGVDDVIDSSALTGGFQTFNFKTVRQNSLLLNSAMQPDLTVSRTYS
GPICLQDPLDKELMTESSLFNPLSDIKVKVQSSFMVSLGVSEAEYHGKNHSRTFPHGNNHSFSTMHPRNKMPYI
QNLSSLPTRTTELRTTGFGHLGGRLVMPNTGVSLIPHGAIPEENSWEIYMSINQGEPSLQSDGSEVLLSPEVTC
GPPDMIVTTPFALTIPHCADVSEHWNHLLKKRTQQGKWEVMSVEDESTSCYCLLDPFACHVLLDSFGTYALTG
EPITDCAVKQLKVAVFGCMSCNSLDYNLRVYCVDNTPCAFQEVVSDERHQGGQLLEPKLLHFKGNTFSLQISVL
DIPPFLWRIKPFTACQEVPPFSRVWCNSRQPLHCAFSLERYTPTTQLSCKICIRQLKGHEQILQVQTSILESERE
TITFFAQEDSTFPAQTGPKAFKIPYSIRQRICATFDTPNAKGKDQMLAQKNSINRNLSYFATQSSPSAVILNLW
EARHQHDGDLDSLACALEEIGRTHTKLSNISESQLDEADFNYSRQNGL

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FIGURE 2208

GAAACAATGATTGCCAGGAAGGTCACCTTTCAGCACCCACAGCCTCGGCAACCAGCACATATACCAGCGAAGCTCC
TCCATGTTGTCCTTCAGCAACACTGACAAGAAGGCCAAGGTGGGTCTGGAGGCCTGTGGGAGAGCCCAGTCAGCC
ACCCCGCCAAACCCACAGACGGCCTCTACACCTACTGGAGTGCTGGAGAAGACAGCCAGTCTGTACAGAACAGC
AGCAGCTTCCACAACCTGGTACTCATTCAACGATGGCTCTGTGAAGACCCCAGGCCCAATTGTTATCTACCAGACT
CTGGTGTACCCAAGAGCTGCCAAGGTTTACTGGACATGTCCAGCAGAAGACGTGGACTCTTTTGAGATGGAATTC
CTGAAGTCATTACTTCTCCTCCTAACAACGTACAAATGGAGCTCTGTGGACAAATTCGGGACATAATGCAGCAA
AATCTGGAGCTGCACAACCTGACCCCAACACAGAATACGTGTTTAAAGTTAGAGCCATCAATGATAATGGTCCT
GGGCAATGGAGTGATATCTGCAAGGTGGTAACACCAGATGGACATGGGAAGAACCGAGCTAAGTGGGGCCTGCTG
CTAGAATATCCAGTCTGCCCTCCAGAAGCACTTCTGAGCCCCCTTCAGAGCAGGAAACAACCTCAGACTCATCACA
CTAGACATATACACACACATATATGTATGTATATTTTCTCACCACATTCTTCAAGGAGGTTGTAGACAAATGT
CTCATGACCTCTCAGCTTTC AACAGGAATCTTGTAAGAGCTAATAAAAGGAAATACCTGAAAAAAAAAAAAA
CTAAAAA

2432/2682
FIGURE 2209

ETMIARKVTFSTHSLGNQHIYQRSSSMLSFNTDKKAKVGLEACGRAQSATPAKPTDGLYTYWSAGEDSQSVQNS
SSFHNWYSFNDGSVKTPGPVIVYQTLVYPRAAKVYWTCPAEDVDSFEMEFYEVITSPNNVQMELCGQIRDIMQQ
NLELHNLTPTNEYVFKVRAINNGPGQWSDICKVVTPDGHGKNRAKWGLLKNIQSALQKHF

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FIGURE 2210

ATGGACGTCAGGCTCATCTGCACCACCGTACCCAAGATGGCCTTCAACTACTTGTCTGGCAGCAAGTCCATTCT
ATGGCTGGCTGTGCCACACAAATTTCTTCTGTGTATCACTGCTTGGCTCTGAATGCTTTCTGTTGGCTGTTATG
TCTTATGACTGCTACATTGCCATTTGCCACCCTCTAAGATACACCAATCTCATGAGACCCAAAATTTGTAGACTT
ATGACTGCCTTCTCCTGGATCCTGGGCTCTACAGATGGAATCATTATGCTGTAGCCACATTTTCCTTCTCCTAC
TGTGGGTCTCGGGAAATAGCCCACTTCTTCTGTGAGTTACCTTCCCTACTAATCCTCTCATGCAATGACACGTCA
ATATTTGAAAAGGTTATTTTCATTTGCTCTATAGTAATGCTTGTTTTCCCTGTTGCAATCATCATTGCTTCCTAT
GCTGGAGTTATTCTGGCTGTCATTCACATGGGATCTGGAGAGGGTCGTCGCAAAGCTTTCACGACCTGTTCTCT
CACCTCATGGTGGTGGGAATGTTCTATGGAGCAGGTTTGTTTCATGTACATACAGCCACATCTGATCGCTCCCCA
ACGCAGGACAAGCTGGTGTCTGTATTCTACACCATCCTCACTCCC

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FIGURE 2211

TGTCTGCACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGC
CTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCCCACCCAGGTCCCCTGGTGAAATCAGAAGAGAC
AGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCCTTCTGCACAGAGAGGGGAAGTATAAGGACAC
TTTGACCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGGTCCCATGATGCAAGACCT
TGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGCTCCCAGTGACCCTCTGGA
CATCGTCATCACAGGTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGGCCCCACGGTTTTGGCAGGAGAGAG
CGTGACCTTGTCTGTCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAACG
TAGGTTCTCTGCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGGCCCTGCCACCCACGGAGG
AACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCCTATGAGTGGTCAAACCTCGAGTGACCCACTGCTTGTTTC
TGTCACAGGAAACCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCAAAACCGGTAACCCCAGACACCT
GCAIGTTCTGATTGGGACCTCAGTGGTCAAAATCCCTTTCACCATCCTCCTCTTCTTTCTCCTTCATCGCTGGTG
CTCCAACAAAAAATGCTGCTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGTGAACAGCGAGGATTCTGA
TGAACAAGACCATCAGGAGGTGTCATACGCATTAATGGATCACTGTGTTTTACACAGAGAGAAATCACTCGCCC
TTCTGAGAGGCCCAAGACACCCCAACAGATACCAGCATGTACATAGAACTTCCAAATGCTGAGCCCAGATCCAA
AGTTGTCTTCTGTCCACGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGACAACAGCCCTGTCTCAA
ACCGGGTTGCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCATCAGTCTTCATCTTAGGGCATCGCTCTTC
CTCACACCACGAATCTGAACATGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAGAAA
ACACACTCCTTTGCTTAGCCCACAATTCTCCATTTCACTTGACCCCTGCCCACCTCTCCAACCTAACTAGCTTAC
TTCCTAGTCTACCTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAAACATACAAGAGGCTCCCTCTTAACA
CAGCACTTAGACACGTGCTGTTCACCTCCCTTCAGACTATCTTTAGCCTTCTGCCAGCAGTAAACCTTATAAA
TTTTTTAAATAATTCAATGTAGTTTTCCCGCCTTCAAATAAACATGTCTGCCCTCA

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FIGURE 2212

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGPLVKSEETVILQCWSDVRFEHFLLHREGKYKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWPSPTESPSSKTGNPRHLHVLIGTSVVKIPFTILLFLLHRWCSNKKNAAVMDQEPAGNRTVNSEDSDEQDHQE
VSYA

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FIGURE 2213A

CCGGCTTTTTCGCTGGGAGCCCAGAGCAGGAGGCAGAGCCCAGGGAAGCTCGGAGCACTCAGGACGCCGCGCGC
CCTTCCCCGCCCTCCCTGACCAGGGAGCAGCTCGCTCCAGGCGCCAGCCGAGGCCCCCAGCCCAGTGGGAGCAA
GTCATAGAGAACAATTCGAGAGACAGAGAGACGGAGCGCGCTTTCCTGCTCAGTCCTGAAAAGTGAGCCGCTCCC
GGGTTTGCAACCTCAAGCTTCGCAGCAGCGGCGGCGGCTGCCGGAAGGAGGCAGGTGCAGGTGCAGGAGGG
AGGCGGCTCTGGGCTCCGCGCCTGGGTCTTGGCCATGCGCTCGGTCTGGGAGCGGCAGAGGGTCTGGAGGGCT
GAGCAGTCAACTCAAATGCAAGTCCAAGAGGAGGAGGAGGCGGAGGTCCAAGCGGAAAGATAAAGTAAGCATATT
GTCAACCTTCCTCGCTCCTTTCAAGCACCTGAGTCCTGGCATCACAAACACGGAGGATGACGACACCCTCAGTAC
CAGCAGCGCGGAGGTGAAGGAGAACCACAACGTGGGCAACCTGGCCGCGCGGCCACCGCCCTCCGGGGACCGGGC
CCGGGGCGGCGCGCCCCGGCGCGAAGAGGAAGCGGCCGCTGGAGGAGGGGAATGGGGGCCACTTGTGCAAACTGCA
GCTGGTCTGGAAGAAGCTGTCTGGTGGTGGTGGCGCCCAAGAACGCGCTGGTGCAGCTGCACGAGCTGAGGCCGGG
CCTGCAGTACCGGACAGTGTCTGCAGACGGGCCCGGTGCATGCCCGGCTTTCGCGGTAGCGGTGGAGGTGAACGG
GCTCACGTTTCAGAGGCACAGGCCCCACCAAGAAGAAGGCCAAGATGCGCGCGGCGGAGCTGGCACTCAGGTCCTT
CGTGCACTTCCCCAACGCCTGCCAGGCGCACCTGGCCATGGGCGGGGGCCCCGGGCCCGGACGGACTTACCTC
CGACCAGGCCGATTTCCTCCGACACGCTCTTCCAGGAGTTCGAGCCCCCGGCGCGCGCCCCGGACTCGCGGGAGG
CCGCCCCGGGGACGCCGCGCTTCTGTCCGCGGCCTACGGGCGACGGCGGCTGCTGTGCCGCGCGCTGGACCTGGT
GGGCCCCGACCCCGCCACCCCGCGGCCCGGGCGAGCGCAACCCCGTGGTGTCTGTAACCGCCTGCGCGCCGG
GCTGCGCTACGTGTGTCTGGCAGAACCGGCCGAGCGGCGCGCGCGGAGCTTCGTGATGGCCGTGAGCGTGGACGG
CAGGACGTTTCGAGGGCTCGGGGCGCAGCAAGAAGCTGGCCCCGGGGTCAGGCCGCGCAGGCCGCACTGCAGGAGCT
GTTTCGACATCCAGATGCCCGGCCACGCGCCCGGCAGGGCCAGGAGGACGCCAATGCCGCAGGAATTCGACAGCTC
CATATCCCAGCTGGTACACAGAAGTTCCGCGAGGTGACGACGGACCTCACGCCCATGCACGCCCCGCATAAAGC
GCTGGCAGGAATCGTCATGACCAAGGCCTGGATGCTCGGCAGGCGCAGGTCTGTGGCCCTGTCTCGGGGACCAA
GTGCATCAGCGGCGAGCACCTCAGTGACCAGGGGCTGGTGGTGAATGACTGCCACGCGGAGGTCTGTGGCCCCGGCG
GGCGTTCTGCACTTCTCTACACGCAGCTGGAGCTGCACCTGAGCAAGCGGCGCGAGGACTCAGAGCGATCGAT
ATTCTGCGGTTAAAAGAAGGTGGCTACCGGCTGCGAGAGAACATCCTCTTCCATCTCTACGTGAGCACCTCCCC
CTGTGGAGACGCAAGACTCCACTCTCCCTACGAGATCACACAGACCTGCACAGCAGCAAAACACCTCGTCAGGAA
GTTCCGCGGGCACCTGCGCACCAAGATCGAGTCCGGGGAAGGACGGTCCCCGTGCGTGGCCCCAGCGCAGTGCA
GACCTGGGACGGCGTCTGTCTGGGGGAGCAGCTGATCACCATGTCTGACGAGCAAGATCGCCAGGTGGAACGT
CCTGGGGCTGCAGGGCGCGCTCCTGTCCACTTCGTGGAGCCCGTGTACCTGCAGAGCATCGTGGTGGGCAGCCT
GCACCACACGGGCCACCTCGCACGCGTATGAGCCACCGCATGGAGGGTGTGGCCAGCTGCCCCGCTCCTACCG
GCACAACCGCCTCTCCTCAGCGGCGTGAGTGACGCCGAGGCGCGCCAGCCGGGGAAGTCGCCCCCTTCAGCAT
GAACTGGGTCTGTGGGAGCGCGGACCTGGAGATTATCAACGCCACCACTGGGCGGAGGAGCTGTGGGGGCCATC
CCGGCTCTGCAAGCACGTGCTGTCTGCACGGTGGGCGCGGCTGTATGGCAGGCTGAGCACACGGACACCCAGCCC
TGGAGACACGCCCTCCATGTACTGTGAGGCCAAGCTGGGGGCGCACACCTACCAGTCTGTGAAACAGCAGCTGTT
CAAGGCCTTTTCAAGAGGCTGGCCTGGGCACCTGGGTGAGGAAACCACCGAGCAGCAGAGTTTCTACTGACTCT
CTAGGCTGCGGGCTCCTGGCTGCTGGAGCTGAGCGGGACGCTGGAGGGATGGGACCGTGTCTGGGGGGCGACGTG
GCGGGTCCGCCGGTTCCCTGCATTTCGTTTTACTTTGGTGTCCAGAAACACGCGAGTGTGCAATGTTTGGACGAG
CAACAACACAAATTCAGAACGTGCCTCTTTCCAGATCGCTGGCCCCAGAACCCTGTCCCCACACCCAGGGGCAC
ACGCACCGTTGAGTTAGCGCCGACTCTTCTGTGGAGTCTGAGGGAGGGGCTCCATTAGGCAAAGGGGTTTTAG
CTGCAGCCTTGGAAGGAGGCACCGACACGACACCAGGCAGGAGTGAGCCTCAGGCCCGCTCCCTGCACCCACCC
CTGCGTGCGCCTCTTGGTGATGCTGGGGTCTCACTAGCTTGAGGGGGCACATGAAGATAAGCCACAAATGAAGAG
AAAAGCCATGCCACCCAGCCCCAGAGAAACCAATAAGAATCCTCTATTATTTTCACTATTCTGTTTAGGTTTTT
ATACTCCACCTCCTTTCAAAAAAGATTTAAGATGTACGACATTACCGAACACCTAAAAATAGAACCAGAGAAACGA
AAGCCATTCCACAAAGTGAAGGAACAGTTTCCAAAACCCCTGCGAGGCAGAGTTAAGACCTGTGACGTGGGGAG
CCTGGAAACACCTGGCCACGCGTGCTGCAGATGTGGGGAGCCTGGAAACACCCGGCCACGCGTGCTGCAGATG
TGGGGAGCCTGGAAACACCCGGCCACGCGTGCTGCAGATGTGGGGAGCCTGGAAACACCCGGCCACGCGTGCT
GTAGATGTGGGGAGCCTGGAAAAACCTGGCCACGCGTGCTGCAGATGTGGGGAGCCCGGAAACACCTGGCCCAT
GCCTGTTTCACTCCGTCATGGCGTTTGGTTTATGGTGGCCGATACTAAGAGCCACTGAGGTCTGGGTTGTGTGAGG
GTTAGCTACCACCTATAACCTCCCTACCAGGTAATAAGGAGACCAAGTCTTTGATCAAATCTGATTTTTTAAAC

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FIGURE 2213B

TAAATTTTCATTAGAAAGCAAGCACAAAATAAAATCAAAACAACCTTTACCTTCA

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FIGURE 2214

MASVLGSGRGSGGLSSQLKCKSKRRRRRRRSKRKDKVSI LSTFLAPFKHLSPGITNTEDDDTLSTSSAEVKENRNV
GNLAARPPPSGDRARGGAPGAKRKRPLEEGNGGHLCKLQLVWKKLSWSVAPKNALVQLHELRLPGLQYRTVSQTGP
VHAPVF AVAVEVNGLTFEGTGPTKKKAKMRAELALRSFVQFPNACQAHLAMGGGPGPGTDFTSDQADFPDTLFO
EFEPAPRPGLAGGRPGDAALLSAAYGRRRLLCRALDLVGPTPATPAAPGERNPVLLNRLRAGLRYVCLAEPAE
RRARSFVMAVSVDGRTFEGSGRSKKLARGQAAQALQELFDIQMPGHAPGRARRTPMPQEFADSIQLVTQKFRE
VTTDLTPMHARHKALAGIVMTKGLDARQAQVVALSSGTKCISGEHLSDQGLVVNDCHAEVVARRAFLHFLYTQLE
LHLSKRREDSERSIFVRLKEGGYRLRENILFHLYVSTSPCGDARLHSPYEITDLHSSKHLVRKFRGHLRTKIES
GEGTVPVRGPSAVQTDGVLLGEQLITMSCTDKIARWNVLGLOGALLSHFVEPVYLSIVVGS LHTGHLARVMS
HRMEGVGQLPASVRHNRPLLSGVSDAEARQPGKSPFFSMNWVVGSALEIINATTGRRSCGGPSRLCKHVLSARW
ARLYGRLSTRTPSPGDTPSMYCEAKLGAHTYQSVKQQLFKAFQKAGLGTWVRKPPEQQQFLTL

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FIGURE 2215

ATTTTCATGTTATACTTAATAAAACAAAACATACCTGTATACACACACATTCACTCACATTGAAGATGCAAGATGA
AGAAAGATACATGACATTGAATGTACAGTCAAAGAAAAGGAGTTCTGCCCAAACATCTCAACTTACATTAAAGA
TTATTCAGTGACGTTGCACTGGTATAAAATCTTACTGGGAATATCTGGAACCGTGAATGGTATTCTCACTTTGAC
TTTGATCTCCTTGATCCTGTTGGTTTCTCAGGGAGTATTGCTAAAATGCCAAAAAGGAAGTTGTTCAAATGCCAC
TCAGTATGAGGACACTGGAGATCTAAAAGTGAATAATGGCACAAGAAGAAATATAAGTAATAAGGACCTTTGTGC
TTCGAGATCTGCAGACCAGACAGTACTATGCCAATCAGAATGGCTCAAATACCAAGGGAAGTGTATTGGTTCTC
TAATGAGATGAAAAGCTGGAGTGACAGTTATGTGTATTGTTTGGAAAGAAAATCTCATCTACTAATCATACATGA
CCAACTTGAAATGGCTTTTATACAGAAAAACCTAAGACAATTAAACTACGTATGGATTGGGCTTAACCTTACCTC
CTTGAAAATGACATGGACTTGGGTGGATGGTTCTCCAATAGATTCAAAGATATTCTTCATAAAGGGACCAGCTAA
AGAAAACAGCTGTGCTGCCATTAAGGAAAGCAAAATTTTCTCTGAAACCTGCAGCAGTGTTCAAATGGATTG
TCAGTATTAGAGTTTGACAAAATTCACAGTGAAATAATCAATGATCACTATTTTGGCCTATTAGTTTCTAATAT
TAATCTCCAGGTGTAAGATTTTAAAGTGCAATTAAATGCCAAAATCTCTCTCCCTTCTCCCTCCATCATCGACA
CTGGTCTAGCCTCAGAGTAACCCCTGTTAACAACTAAAATGTACACTTCAAATTTTACGTGATAGTATAAAC
CAATGTGACTTCATGTGATCATATCCAGGATTTTATTTCGTCGCTTATTTATGCCAAATGTGATCAAATTATGC
CTGTTTTTCTGTATCTTGCGTTTTAAATTCTTAATAAGGTCCTAAACAAAATTTCTTATATTTCTAATGGTTGAA
TTATAATGTGGGTTTATACATTTTTTACCCTTTTGTCAAAGAGAATTAACCTTGTTTCCAGGCTTTTGCTACTCT
TCACTCAGCTACAATAAACATCCTGAATGTTTTCTTAAAAAA

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FIGURE 2216

MQDEERYMTLNVQSKKRSSAQTSQLTFKDYSVTLHWYKILLGISGTVNGILTTLISLILLVSQGVLLKCQKGSC
SNATQYEDTGDLKVNNGTTRRNISNKDLCASRSADQTVLCQSEWLKYQGKCYWFSNEMKSWSDSYVYCLERKSHLL
IIHDQLEMAFIQKNLRQLNYVWIGLNFTSLKMTWTWVDGSPIDSKIFFIKGPAKENSCAAIKESKIFSETCSSVF
KWICQY

2441/2682
FIGURE 2217

AGCAGTGGCCCCAAAGAGGAGCAGCAGACAAGAGTGCAGTGGTGGCTGCCGCCGACCAGCCTCAGTGGCAGATGA
CACACCACCCCCGAGCGTCGGAACAAGAGCGGTATCATCAGTGAGCCCCCTCAACAAGAGCCTGCGCCGCTCCCG
CCCGCTCTCCCACTACTCTTCTTTTGGCAGCAGTGGTGGTAGTGGCGGTGGCAGCATGATGGGCGGAGAGTCTGC
TTGACAAGGCCACTGCGGCTGCAGCCTGGCCTTCCCTGTTGGCCAATGGGATGACCTGGCGGCGGCCATGGCGGT
GGACAAAAGCAACCCTACCTCAAAGCACAAAAGTGGTGTGTGGCCAGCCTGCTGAGCAAGGCAGAGCGGGCCAC
GGAGCTGGCAGCCGAGGGACAGCTGACGCTGCAGCAGTTTGCAGCAGTCCACAGAGATGCTGAAGCGCGTGGTGCA
GGAGCATCTCCCGCTGATGAGCGAGGCGGGTGCTGGCCTGCCTGACATGGAGGCTGTGGCAGGTGCCGAAGCCCT
CAATGGCCAGTCCGACTTCCCCCTACCTGGGCGCTTTCCCCATCAACCCAGGCCTCTTCATTATGACCCGGCAGG
TGTGTTCTGGCCGAGAGCGCGCTGCACATGGCGGGCCTGGCTGAGTACCCCATGCAGGGAGAGCTGCCTCTGCC
ATCAGCTCCGGCAAGAAGAAGCGGAAACGCTGCGGCATTGTGCGCGCCCTGCCGGCGGCGCATCAACTGCGAGCA
GTGCAGCAGTTGTAGGAATCGAAAGACTGGCCATCAGATTTGCAAATTCAGAAAATGTGAGGAACTCAAAAAGAA
GCCTTCCGCTGCTCTGGAGAAGGTGATGCTTCCGACGGGAGCCGCCTTCCGGTGGTTTCAGTGACGGCGGCGGAA
CCCAAAGCTGCCCTCTCCGTGCAATGTCACTGCTCGTGTGGTCTCCAGCAAGGGATTGGGCGAAGACAAACGGA
TGCACCCGTCTTTAGAACCAAAAATATTCTCTCACAGATTTCAATTCCTGTTTTTATATATATATTTTTTGTGTGTC
GTTTAAACATCTCCACGTCCCTAGCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2218

MAVDKSNPTSKHKSGAVASLLSKAERATELAAEGQLTLQQFAQSTEMLKRVVQEHPLMSEAGAGLPDMEAVAGA
EALNGQSDFPYLGAFP INPGLF IMTPAGVFLAESALHMAGLAEYPMQGELPLPSAPARRSGNAAALCAPCRRRIN
CEQCSSCRNRKTGHQICKFRKCEELKKKPSAALEKVMLPTGAARWFQ

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FIGURE 2219

CATTGCTATGAATATTCTCTATAACAAAGCAAGACAAATTTAGCAGCACTTCATTGCATCTGGATGGGGGAGAG
AGCTGGACAATTTCTTGCTAACAAGAGATGGTTAACTGCCCTCACCTCAGCCGTGAATTCTGCACACCTCGCATC
CGGGGCAACACCTGCTTCTGCTGTGACCTCTACAACCTGTGGCAACCGGGTGGAGATCACTGGTGGGTACTACGAA
TACATCGATGTCAGCAGTTGCCAAGATATCATCCACCTCTACCACCTGCTCTGGTCTGCCACCATCCTCAACATT
TGGCCTGTTCTTGGGCATCATCACTGCCGCTGTCTTGGAGGCTTTAAGGACATGAACCCAACCTCTCCAGCA
AACTGTTCTGTTGAAAATACCCATCCAACAGTTTCTTACTATGCTCATCCCCAAGTGGCATCCTACAATACC
AATACCATAGCCCTCCTCACCTGCCACCATATTCTGCTTATGACTTTCAGCATTCGGGTGCTTTTCCATCCTCC
CCTCCCTCTGGACTTTCTGATGAGCCCCAGTCTGCCTCTCCCTCACCCAGCTACATGTGGTCTCTCAAGTGCACCG
TTCGGTTACTCTCCACCCTACTATCCACCTTTTGAAAAGCCACCACCTTACAGTCCCATAAGAGGAATGCCTGCT
GCTATTGAGATTATTGTGGCTTTTGTATTTCTGCTTCAGTGGAAGTGTGTAGGGTACAAAATTTAAAGTGTGAC
CTTATGCATAAAGTTTTACAATGGCCTGCCAGGCTAGGGAAAGATAGGGACGAAGCTTATTCATTATTAGTGCA
ACAGGGGTGGTCAGGCTGAACGCAGCACAGAAGGGCAGCTCACATTCTCTAAGCAAGACTGGGGAGCCAGCCC
ACCAAGAAGCTTGTTGGACTTGCAATTACCCTATGCTCCACCTCTGTATTACAGCAGAAGTGTGGTTGCCATCTTT
TTCACCTTTATGTAAAGGAGTGTGGCCCTCGGGCCCTTGGCAGATTGCCACCCAGCACCTAGGTTGAAGCACCTG
GTTTATAGGCCCTATCTTTCCCTACCCCTAAAGTCAGTCCCTAAGGACAATTTCCCAGCTGATGGGGCTACACAG
TAGTTCCAATACAGAGAGTTCTGGCTAAGATTTTGTGCTTGTGCTGGATGTTGAAAAGACTGCCCGTATCT
CTTACTCCTTCTCTCTGTGAGTATTGTAAAAATGGCTGTTGTGATCACTCAGCTCAGCTTTTGTATTGGTAC
CTCCTAAAGGGAAAAGTGCAATATTCTTGCACTTCAGTAGTGGGGAACAGGATGTATTGTTCCGGAAACACTGA
AATACACAGCAACATGTGAGATGTTTTAAGTAGATCACTTAGGAGACAGTGGTCTACTACATGTTGCATTATTA
CAAAATACATTTGCTACAGGAGATATAAATCTTATGGTTGTAATTCAGAGTTTAAAAATGTTATAAATTAGGTTT
TTGGGTGCTGATATGAATTGTTACTAATCTTTGTGACTATTTAATCTTCAAATATTGTGCTTAACCCAGCAATC
CGCAGTATCCTGCACCCCAACCCAAAAGAGTCATCTGTATTTAATGCCACTGGTCTTATCGGTCTTTTTGTCT
GTTGAGACCAGTCATGACAGCATTCAAGATTATGAAAGTGTACAAATGCCGCTTCAAGTCTGCAAAACCTCAAAC
GTAGCCAACTTGACAAATATTTAAGTGTACGGCAGATTTAAATCCATCTGGCACACCGTGGTAGGTATTTGTA
CAGTTCTTTAATTACACATAGCTTTAAACCATCAACCTGATGAGTTTAAAGCTTTTGACCCATGCCTTCACTT
CAGAATGAACACCTTCATTGTGATCTTATGTTAACCTGAGAATTGATTTAAAGGAAGATTGATAATCCTATACTT
TATAACGTAAAAATACAGGGGCTACAGGAGGGTACCTAATTAGACAGTTCTCAAACACAGAACACACACTGGAA
AATTTTCCGGCCAATTTTGCTACCTCCCAACTTGATGGATTAGAGGTAGCGCATATGCTGGTGTCTCCATCTACC
TTGTAGACACTTAGCCATCAAGAATCAAGGCACAAGAAGTGCACCTCTCTCATTAAACAGTAAATGTTTGCAAGATA
TTCAGTTTAACTTTCAGCATCATGAATGTTCTTATCCAGATTTTGAATCCGAAAACTATAATCCTTTTATGTTA
TACAAAATTACTATGATTTTTTACAGTTCTGAGCATATTAAAATTCTACTGGATTTCAAAAAGAGACTAATACCC
AACTGACTAACTAAACAAATATCAACTTGTAATACTCAATGAATTTTTTGGCATTACATTTGACCGTTGGCTT
TAGTGAATGTCCATATTTAATTTTTTAAGGCACCATTACACAGTTTATCCTACATTTATCACATTTCTTAAAGTG
TTAAGATTCTATGGCTCATTCTATGTATTTTTCTTACTTTACAAAATAACCTGAAACAGTATAGATTTTGTAAAC
ACTTAATTTGAGCAGCTTTTTTATTACATTGAATTATATAAAGTGCATGTTACCTTAGAAAAATTAGTATTTGCT
GCTTTACTCTTTTGCAAAACATTTGCTGTAATGAATGGATTTGTATTTCCAATATGTATCTTGACTGCATTTTGT
AATATTTACTGCTTTATTCTTAATCTGCTTTAAAGTACTGAACTGGGCATGAAACATTAAAAATATTAATCCAGA
AACTGTATAAAGTGGATGTTGCTTAAATCTGTATCACTGCCATGTTGAAAATTCAGACTGCTTTTGTGATGTTT
CAAATGAATAAAACTATCCTCCCTCGTT

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FIGURE 2220

MVNCPHLSREFCTPRIRGNTCFCCDLYNCGNRVEITGGYYEYIDVSSQDIIHLYHLLWSATILNIVGLFLGIIT
AAVLGGFKDMNPTLPALNCSVENTHPTVSYIAHPQVASYNTYYHSPPHLPPYSAYDFQHSGVFPSSPPSGLSDEP
QSASPSPSYMWSSAPPRYSPPYYPPFEKPPPYSP

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FIGURE 2221

CCACGCGTCCGGCACCGGCAGCACCATGTTGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCTTCTTGGTCCA
GAGGGCCGGTCCACACGTGGGTGGTCAGGACAAGCCCTTCTGTCTGCCTGGCCCAGCGCTGTGGTGCCTCGAGG
AGGACACGTGACTCTTCGGTGTCACTATCGTCATAGGTTTAACAATTTTCATGCTATACAAAGAAGACAGAATCCA
CGTTCCCATCTTCCATGGCAGATTATTCAGGAGAGCTTCAACATGAGCCCTGTGACCACAGCACATGCAGGGAA
CTACACATGTCTGGGGTTCACACCCACACTCCCCACTGGGTGGTCGGCACCCAGCAACCCCGTGGTGATCATGGT
CACAGGAAACCACAGAAAACCTTCCCTCCTGGCCCACCCAGGTCCCCTGGTGAAATCAGGAGAGAGAGTATCCT
GCAATGTTGGTCAGATATCATGTTTGAGCACTTCTTTCTGCACAAAGAGGGGATCTCTAAGGACCCCTCACGCCT
CGTTGGACAGATCCATGATGGGGTCTCCAAGGCCAATTTCTCCATCGGTCCCATGATGCTTGCCCTTGACAGGGAC
CTACAGATGCTACGGTCTGTACTCACACCCCTATCAGTTGTGAGCTCCAGTGATCCCTTGACATCGTGGT
CACAGGTCCATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCAAGGTTTCAGGCAGGAGAGCGTGACCTT
GTCCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGCGGGGAGCCCATGAACGTAGGCTCCC
TGCAGTGCGCAAGGTCAACAGAACATTCCAGGCAGATTTCCCTCTGGGCCCTGCCACCCACGGAGGGACCTACAG
ATGCTTCGGCTCTTTCCGTCACCTCTCCCTACGAGTGGTCAGACCCGAGTGACCCACTGCTTGTTTCTGTACAGG
AAACCCTTCAAGTAGTTGGCCTTCACCCACAGAACCAAGCTCCAAATCTGGTAACCCACAGACCTGCACATTCT
GATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCTTCTTTCTCCTTCATCTCTGGTGCTCCAACAA
AAAAAATGCTGCTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGCCAACAGCGAGGACTCTGATGAACAAGA
CCCTGAGGAGGTGACATACGCACAGTTGGATCACTGCGTTTTACACAGAGAAAAATCACTCGCCCTTCTCAGAG
GCCCCAAGACACCCCTACAGATACCATCTTGACACGGAACCTCCAAATGCTAAGCCCAGATCCAAAGTTGTCTC
CTGCCCCATGAGCACACAGTCAGGCCTTGAGGACGTCTTCTAGGGAGACAACAGCCCTGTCTCAAAACCGAGTTG
CCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTTCATCTTAGGGCATCGGTCTCCTCACGCCA
CAAACTCTGGTGCCTCTCTTGTGTTACAAATGTCTAGGTCCCCACTGCCTGCTGGAAAGAAAACACACTCCTTTG
CTTAGCCACAGTTCTCCATTTCACTTGACCCCTGCCACCTCTCCAACCTAACTGGCTTACTTCTAGTCTACT
TGAGGCTGCAATCACACTGAGGAACTCACAATTCCAAACATACAAGAGGCTCCCTCTTGACGTGGCACTTACCCA
CGTGCTGTTCCACCTCCCTCATGCTGTTTACCTTCTTCGGACTATTTCCAGCCTTCTGTGACAGTGAAC
TTATAAAATTTTTGTGATTTCAATGTAGCTGTCTCCTCTTCAAATAAACATGTCTGCCCTCCAA

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FIGURE 2222

MLLMVVSMACVGFFLVQRAGPHVGGQDKPFLSAWPSAVVPRGGHVTLRCHYRHRFNNFMLYKEDRIHVPIFHGRL
FQESFNMSPVTTAHAGNYTCRGSHPHSPTGWSAPSNPVVIMVTGNHRKPSLLAHPGPLVKSGERVILQCWSDIMF
EHFFLHKEGISKDPSRLVGQIHDGVSKANFSIGPMMLALAGTYRCYGSVTHTPYQLSAPSDPLDIVVTGPYEKPS
LSAQPGPKVQAGESVTLSCSSRSSYDMYHLSRERGAHERRLPAVRKVNRTFQADFPLGPATHGGTYRCFGSFRHS
PYEWSDFSDPLLVSVTGNPSSSWPSPTEPSSKSGNPRHLHILIGTSVVIILFILLFFLLHLWCSNKKNAAVMDQ
EPAGNRTANSEDSDEQDPEEVTYAQLDHCVFTRQKITRPSQRPKTPPTDTILYTELPNAKPRSKVVSCP

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FIGURE 2223

TTCTCAGAAACGAGCAAACCTGAAAGCTACTCTCTCAGCTTCAGAGGGAAAAAATGGTTGTAGATTTCTGGACT
TGGGAGCAGACATTTCAAGAACTAATCCAAGAGGCAAAACCCCGGGCCACATGGACGCTGAAGTTGGATGGCAAC
CTTCAGCTAGACTGCCTGGCTCAAGGGTGGGAAGCAATACCAACAGAGA GCATTTGGCTGGTTCCGGTGTTCCTCC
TGCCAGCGAAGTTGGGCTTCCGCCAAGTTGCAGATTCTGTGCCACACGTACTGGGAGCACTGGACATCCCAGGGT
CAGGTGCGTATGAGGCTCTTTGGCCAAAGGTGCCAGAAGTGCTCCTGGTCCCAATATGAGATGCCTGAGTTCTCC
TCGGATAGCACCATGAGGATTCTGAGCAACCTGGTGCAGCATATACTGAAGAAATACTATGGAAATGGCATGAGG
AAGTCTCCAGAAATGCCAGTAATCCTGGAAGTGTCCCTGGAAGGATCCCATGACACAGCCAATTGTGAGGCATGC
ACTTTGGGCATATGTGGACAGGGCTTAAAAAGCTACATGACAAAGCCGTCCAAATCCCTACTCCCCACCTAAAG
ACTGGGAATTCTCACCTGGAATTGGTGCTGTGTACCTCGCAAACCAAGCCAAGAACCAGTCAGATGAGGCAAAA
GAGGCTAAGGGGAGTGGGTATGAGAAATTAGGGCCCAGTCGAGACCCAGATCCACTGAACATCTGTGTCTTTATT
TTGCTGCTTGTATTTATTGTAGTCAAATGCTTTACATCAGAAATGATGAAAATAGGCTTGCCACTTTCTCTTATT
TAATTCCATGGTAGTCAATGAACTGGCTGCCACTTTAATATAACTGAAAATTCATTTTGAGACCAAGCAGGATCA
AGTTTGTAGAATAAACACTGGTTTCCTAGCTATCCTCTGAAAACAGTATGAAACATGACCAAGTACATAATGGAT
TTAGTAATAAATATTGTCGAATTGCTAAAAAAAAAAAAA

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FIGURE 2224

MVVDFTWEQTFQELIQEAKPRATWTLKLDGNLQLDCLAQGWKQYQQRAGWFRCSQQRSWASAKLQILCHTYW
EHWTSQGQVRMRLFGQRCQKCSWSQYEMPEFSSDSTMRIISNLVQHILKKYYGNGMRKSPEMPVILEVSLEGSHD
TANCEACTLGICGQGLKSYMTPSKSLLPHLKTGNSSPGIGAVYLANQAKNQSDAEAKEAGSGYEKLGPSRDPP
LNICVFILLLVFIVVKCFTSE

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FIGURE 2225

TAATAGTCACATGACACGTTTCCCGTCAAGATGCGGATACTCTCCCTTCGGAGTTTGATGTGATCGTAATAGGG
ACGGGTTTGCCTGAATCCATCATTGCAGCTGCATGTTCAAGAAGTGGCCGGAGAGTTCTGCATGTTGATTCAAGA
AGCTACTATGGAGGAACTGGGCCAGTTTGTAGCTTTTCAGGACTATTGTCCTGGCTAAAGGAATACCAGGAAAAC
AGTGACATTGTAAGTGACAGTCCAGTGTGGCAAGACCAGATCCTTGAAAATGAAGAAGCCATTGCTCTTAGCAGG
AAGACAAAACCTATTCAACATGTGGAAGTATTTTGTATGCCAGTCAGGATTTGCATGAAGATGTCGAAGAAGCT
TGCCTGCAGAAAAATCATGCTCTTGTGACATCTGCAAACTCCACAGAAGCTGCAGATTCTGCCTTCCTGCCT
GAGGATGAGTCATTAAGCACTATGAGCTGTGAAATGCTCACAGAACAACTCCAAGCAGCGATCCAGAGAAT
GGCTAGAAGTAAATGGTGTGAGTGACAGGGGAAAAAGAAAACCATTGTGATGATAAACTTGTGTGCCATCA
TTCAGCAGAAGACATGAGTGAAAATGTGCCTATAGCAGAAGATACCACAGAGCAACCAAAGAAAAACAGAATT
TACTCACAAATTATTAAAGAAGGCAGGAGATTTAATATTGATTTAGTATCAAAGCTGCTGTATTCTCGAGGA
CTAATTGATCTTCTAATCAAATCTAATGTTAGTCGATATGCAGAGTTTAAAAATATTACCAGGATTCTTGCA
GAGAGAAGGACGAGTGGAACAGGTTCCGCTGTCCAGAGCAGATGTCTTTAATAGCAAACAACCTTACTATGGTA
GAAAAGCGAATGCTAATGAAATTTCTTACATTTTGTATGGAATATGAGAAATATCCTGATGAATATAAAGGATAT
GAAGAGATCACATTTTATGAATATTTAAAGACTCAAAAATTAACCCCCAACCTCCAATATATTGTCATGCATTCA
ATTGCAATGACATCAGAGACAGCCAGCAGCACCATAGATGGTCTCAAAGCTACCAAAAACCTTCTTCACTGTCTT
GGGCGGTATGGCAACACTCCATTTTGTTCCTTTATATGGCCAAGGAGAACTCCCCCAGTGTTCGTCAGGATG
TGTGCTGTGTTTGGTGGAAATTTATTGTCTTCGCCATTTCAGTACAGTGCCTTGTAGTGGACAAAGAATCCAGAAAA
TGTAAGCAATTATAGATCAGTTTGGTCAGAGAATAATCTCTGAGCATTTCCTCGTGGAGGACAGTTACTTTCTT
GAGAACATGTGCTCACGTGTGCAATACAGGCAGATCTCCAGGGCAGTGTGATTACAGATAGATCTGTCTAAAA
ACAGATTCAGATCAACAGATTTCCATTTTGCAGTGCAGCAGAGGAACCAGGAACCTTTGCTGTTCCGGGTCATT
GAGTTATGTTCTTCAACGATGACATGCATGAAAGGCACCTATTTGGTTCATTTGACTTGCACATCTTCTAAAACA
GCAAGAGAAGATTTAGAATCAGTTGTGCAGAAATGTTTGTTCATATACTGAAATGGAGATAGAAAATGAACAA
GTAGAAAAGCCAAGAATTCTGTGGGCTCTTTACTTCAATATGAGAGATTTCGTGAGACATCAGCAGGAGCTGTTAT
AATGATTTACCATCCAACGTTTATGTCTGCTCTGGCCAGATTGTGGTTTAGGAAATGATAATGCAGTCAAACAG
GCTGAAACACTTTTCCAGGAAATCTGCCCCAATGAAGATTTCTGTCCCCCTCCACCAAATCCTGAAGACATTATC
CTTGATGGAGACAGTTTACAGCCAGAGGCTTCAGAATCCAGTGCCATACCAGAGGCTAACTCGGAGACTTTCAAG
GAAAGCACAAACCTTGGAACCTAGAGGAGTCTCTGAATTAATGGATATACACCAAACCTGGATACCCAACCTTTGG
AAATTCTGACTGGTCTCAGAGTCTACTTGATAGAAGGACTGTTTGAGAAATGTTAGAAAGCAGCAGCAATTATAA
GGCAAAATAGGTAAAT

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FIGURE 2226

MADTLPSEFDVIVIGTGLPESIIAAACSRSGRRVLHVDSRSYYGGNWASF SFSGLLSWLKEYQENS DIVSDSPVW
QDQILENEEAIALSRKDKTIQHVEVFCYASQDLHEDVEEAGALQKNHALVTSANSTEAA DSAFLPTEDES LSTMS
CEMLTEQTPSSDPENALEVNGAEVTGEKENHCDDKTCVPSTSAEDMSENVPIAEDTTEQPKKNRITYSQI IKEGR
RFNIDLVS KLLYSRGLLIDLLIKSNVSRYA EFKNITRILAFREGRVEQVPCSRADV FNSKQLTMVEKRMLMKFLT
FCMEYEKYPDEYKGYEEITFYEYLKTQKLTPNLQYIVMHSIAMTSETASSTIDGLKATKNFLHCLGRYGNTPFLF
PLYGQGELPQCFCRMCAVFGGIYCLRH SVQCLVVDKESRKCKAIDQFGQRI ISEHFLVEDSYFPENMCSR VQYR
QISRAVLITDRSVLKTDS DQQISILTVPAEEP GTFAVRVIELCSSTMTCMKGTYLVHLTCTSSKTAREDL ES VVQ
KLFVPYTEMEIENEQVEKPRILWALYFNMRDSSDISRSCYNDLP SNVYVCSGPD CGLGNDNAVKQAETLFQE ICP
NEDFCPPPPNPEDIILDGDSLQPEASESSA IPEANSETFKESTNLGNLEESSE

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FIGURE 2227

GGGTGCGCTCGGCCGTGGCGCACCTGGTGAGCTCCGGGGGCGCTCCGCCTCCGCGCCCCAAATCCCCGGACCTGC
CCAACGCCGCCCTCGGCGCCGCCCGCCGCTCCAGAAGCGCCCAGGAGCCCTCCCGCGAAGGCTGGGAGCGGGA
GCGCGACGCCCGCGAAGGCTGTTGAGGCTCGAGCGAGCTTCTCCAGACCGACCTTTCTGCAGCTGAGCCCCGGG
GGCTGCGACGCGCCGATGACCACGCGGGCCGGGCTGTGCAAAGCCCCCGGACACGGGCCGCCGCTGCCCTGGA
GCACAGGCTACGCCGAGTGAGCGCCCCCTGGGGCACCCAAACCAGGATGGGGCTCCCACCCCTCTCCCCAGCTCC
GCATCCCCGGCGCTAGGACGCGTTCCCCACGCCGCTCCGGGCCAGGAGCTCCCTTTTCCGTGGACCTTTGCTAT
CCTCTGGTCTTTCGGGCCGACCCCTCCCAACCAATTTCCAGTGGGGGGCAGCCTGTGTACCTTCTTACGTC
CTTCCCGCTCATTGACTGCCCTCGCCACGCCGCTCAGGACCTGTTCTGCCCCAGAGCCCGAGGGCGGAGAG
CCCGGCGAAGGATGAGTTGGCCAGTTCCCCGTCGCGGCCCGGCAGCTTAAAGGCTAAGGAAAAGGGTTTCACG
AAGGAGCGGGGTTCTTTTTAATAGGGGACATAGCGTTGGGAAGACTCGCTCACCCGCTTCCCGGCTCCAGCGCC
CCAGTTCCCTGTCCCTCTTACCGTAGTTCCCCTCCCCCTCCACACCCAGAAATAGCCCGGACACCAGGAGGCCG
CCAGCTTCCCCAGGAGCGGGGAGGGGGACGCCCGGGGTAGAGGAGGGTCCCATTITAGATGCCCTTCAGCCTGCCA
ACTCGTGCTGGCCTGGCAAAGAAGCGGACCCCCGTGCCCGGAGCGGCCGGCTGGCCCCCGGGCTGTGTGATTTTA
AATGCATCTGCCGGAACGCAGAGCACCGAGGGAGATGGGGGCGCTCAGTTCGCTGAGGAAGGTGGCTGGTGGCC
CATGGAACCCACCACCTCCCTTAGCCTCCTGTGTGGGAGGAGTTTATGGGTATGTGGCTCCTGCCAGTCCAG
GTGGGCTTTCACTTCTACTCTATTTCACTTCCCTTTTCCCGATCTGGGCTGGAGAGCTTCTCATTGTTAAGGCA
GCAGAACTTTTCGCTGGATGGTTTTAGGATAAGGGGTATCAATGCTGGCAAGAGTCGGCACAATGAGGACCAGG
CTTGCTGTGAAGTGGTGTATGTGGAAGGTCGGAGGAGTGTTACAGGAGTACCTAGGGAGCCTAGCCGAGGCCAGG
GACTCTGCTTCTACTACTGGGGCCTATTTGATGGGCATGCAGGGGGCGGAGCTGCTGAAATGCGCTCACGGCTCC
TGCATCGCCATATCCGAGAGCAGCTAAAGGACCTGAAGGAAGTGAGCCACGAGAGCCTGGTAGTGGGGGCCATTG
AGAATGCCTTCCAGCTCATGGATGAGCAGATGGCCCGGAGCGGCGTGGCCACCAAGTGGAGGGGGGCTGCTGTG
CACTGGTTGTGATCTACCTGCTAGGCAAGGTGTACGTGGCCAATGCAGGCGATAGCAGGGCCATCATTGTCCGGA
ATGGTGAAATCATTCCAATGTCCCGGGAGTTTACCCCGGAGACTGAGCGCCAGCGTCTTCAGCTGCTTGGCTTCC
TGAAACCAGAGCTGCTAGGCAGTGAATTCACCCACCTTGAGTTCCCCCGCAGAGTTCTGCCCAAGGAGCTGGGGC
AGAGGATGTTGTACCGGGACCAGAACATGACCGGCTGGGCCTACAAAAAGATCGAGCTGGAGGATCTCAGGTTTC
CTCTGGTCTGTGGGGAGGGCAAAAAGGCTCGGGTGATGGCCACCAATGGGGTGACCCGAGGCTTGGGAGACCACA
GCCTTAAGGTCTGCAGTTCCACCCTGCCCATCAAGCCCTTCTCTCCTGCTTCCCTGAGGTACGAGTGTATGACC
TGACACAATATGAGCACTGCCCAGATGATGTGCTAGTCTGGGAACAGATGGCCTGTGGGATGTCACTACTGACT
GTGAGGTAGCTGCCACTGTGGACAGGGTGCTGTGGCCTATGAGCCTAATGACCACAGCAGGTATACAGCTCTGG
CCCAAGCTCTGGTCTTGGGGGCCCGGGGTACCCCCGAGACCGTGGCTGGCGTCTCCCCAACAACAAGCTGGGTT
CCGGGGATGACATCTCTGTCTTCGTCATCCCCCTGGGAGGGCCAGGCAGTTACTCTGAGGGGCTGAACACCATC
CCTCCCACTAGCCTCTCCATACTTACTCTCTCACAGCCCAAATTCTGAAGTTGTCTCCCTGACCCCTCTTTAGT
GGCAACTTAACTGAAGAAGGGATGTCCGCTATATCCAAAATTACAGCTATTGGCAAATAAACGAGATGGATAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2228

MASRLLRHIREQLKDLKEVSHESLVVGAIENAFQLMDEQMARERRGHQVEGGCCALVVIYLLGKVYVANAGDSR
AIIVRNGEIIIPMSREFTPETERQRLQLLGFLKPELLGSEFTHLEFPRRVLPKELGQRMPLYRDQNM TGWAYKKIEL
EDLRFPLVCGEGKKARVMATIGVTRGLGDHSLKVCSSILPIKPFLSCFPEVRVYDLTQYEHCPDDVLVLGTDGLW
DVTTDCEVAATVDRVLSAYEPNDHSRYTALAQAALVLGARGTPRDRGWRLPNNKLGSGDDISVFVIPLGGPGSYS

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FIGURE 2229

GCACAGACAGCACCAATGTCGCTCATGGTCGTCAGCATGGCGTGTGTTGGGTTCCTTCTTGCTGCAGGGGGCCTGGC
CACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCCACCCAGGTCGCCTGGTGAAATCAGAAGAGACAGTCA
TCCTGCAATGTTGGTCAGATGTCAGGTTTGAGCACTTCCTTCTGCACAGAGAAGGGAAGTTTAAAGGACACTTTGC
ACCTCATTGGAGAGCACCATGATGGGGTCTCCAAAGCCAACCTTCTCCATCGGTCCCATGATGCAAGACCTTGCAG
GGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGCTCCCAAGTGACCTCTGGACATCG
TCATCACAGGTCTATATGAGAAACCTTCTCTCTCAGCCCAGCCGGGCCCCACGGTTCTGGCAGGAGAGAGCGTGA
CCTTGTCCTGCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGAGGGGGAGGCCCATGAATGTAGGT
TCTCTGCAGGGCCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCTCTGGGCCCTGCCACCCACGGAGGAACCT
ACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACCTCGAGTGACCCACTGCTTGTTTCTGTCA
TAGGAAACCTTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCTAAAACCGGTAACCCCCGACACCTGCACA
TTCTGATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCTTCTTCTCCTTCATCGCTGGTGCTCCAACA
AAAAAATGCTGCGGTAATGGACCAAGAGTCTGCAGGGAACAGAACAGCGAATAGCGAGGACTCTGATGAACAAG
ACCCTCAGGAGGTGACATACACACAGTTGAATCACTGCGTTTTTCACACAGAGAAAAATCACTCGCCCTTCTCAGA
GGCCCAAGACACCCCCAACAGATATCATCGTGTACGCGGAACCTTCAAATGCTGAGTCCAGATCCAAAGTTGTCT
CCTGCCCATGAGCACCCACAGTCAGGCCTTGAGGGCGTCTTCTAGGGAGACAACAGCCCTGTCTCAAACCGGGTT
GCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCATGAGTCTGCATCTTAGGGCATCGCTCTTCTCACACC
ACAAATCTGAATGTGCCTCTCACTTGCTTACAAATGTCTAAGGTCCCCACTGCCTGCTGGAGAAAAACACACTC
CTTGCTTAGCCACAGTTCTCCATTTCACTTGACCCCTGCCCACCTCTCCAACCTAACTGGCTTACTTCCTAGT
CTACTTGAGGCTGCAATCACACTGAGGAACCTACAATTCCAAACATACAAGAGGCTCCCTCTTAACGCAGCACTT
AGACACGTGTTGTTCCACCTTCCCTCATGCTGTTCCACCTCCCCCTCAGACTAGCTTTCAGTCTTCTGTCTCAGCAGT
AAAACCTATATATTTTTTAAATAAATTCAATGTAGTTTTCCATCCTTCAAATAAACATGTCTGCCCCCATG

2454/2682
FIGURE 2230

MSLMVVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGRLVKSEETVILQCWSDVRFEHFLLHREGKFKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHECRFSAGPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSIGNPS
NSWPSPTESPSSKTGNPRHLHLIGTSVVIILFILLFLLHRWCSNKKNAAVMDQESAGNRTANSEDSDEQDPQEV
TYTQLNHCVFTQRKITRPSQRPKTPPTDIIVYAELPNAESRSKVVSCP

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FIGURE 2231

TAAAACTTTAGGAAATTAGTACCAGACTTTTATATTGGTCAACAGCAAATGAACATTACTACTCAGCCTCCAAC
ACATGCAGTTTGCCTATACCAGGGATCCTGTCAAAATATACACCACTTATAGCTTCTTAAGTGCAGTTATCATAG
AGCACAGTCCCTGACATCACACAGCTGCAGAGATGAATAAAACAAAGAGGAACCTACTCAGAAGTGAGTCTGGCCC
AGGACCCAAAGAGGCAGCAAAGGAACTTAAGGGCAATAAAATCTCCATTTAGGAACCAAACAGGAAATATTCC
AAATAGAATTAAACCTTCAAAATGCTTCTTCGGATCATCAAGGGAATGACAAGACATATCACTGCAAAGGTTTAC
ACCTCCAGAGAAGCTCACTGCTGAGGTCCTAGGAATCATTTGCATTGTCCTGATGGCCACTGTGTTAAAAA
ATAGTTCTTATTCCTTGTATTGGAGTACTGGAGCAGAACAATTTTCCCTGAATAGAAGAATGCAGAAAGCAC
GTCATTGTGGCCATTGTCCTGAGGAGTGGATTACATATTTCCAACAGTTGTTATTACATTGGTAAGGAAAGAAGAA
CTGGGAAGAAAGAGTTTGCTGGCCTGTGCTTCGAAGAACTCTGATCTGCTTTCTATAGATAATGAGGAAGAAAT
AAGACGTAAATGTTTCAACACTTTACTAAAAGCTTATTTCTGTCAATATCATATTTGTAGAAATCATCCATA
TTTATACATATATTTACTTCATATATTTTTAAGTCTGTGTAGTATTCAACTGACTTCATAATATTTTATATT
ATACTGTTAATGCACATTTGGTTATTTCCAGTTTTGCTTTTCATGGAAACCCATGCTTCTATAAATGTTTTT
ACACAAAATAAATATAAAGAAAACATAAAAAAAAAACCAAAAAAAAAAAAAAAAAAGGCGGCCGCGATATAG

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FIGURE 2232

MNKQRGTYSEVSLAQDPKRQQRKLKGNKISISGTKQEIFQVELNLQNASSDHQGNDKTYHCKGLLPPEKLTAEV
LGIICIVLMATVLKTIIVLIPCIGVLEQNNFSLNRRMQKARHCGHCPEEWITYSNSCYIYGKERRTWEERVCPVL
RRTLICFL

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FIGURE 2233

GGCGGCGGCAGCGGGTTTCGGTTGCGCGTGCGGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG
CCAGCGACCATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC
GTGGGGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC
ACCAGTACGAGTCGAAGTTCGGAACGGACCCCCGGGGCTGCAACGCCAGCGCCTCAGGGGCCGCCGAGGATGGG
GCCTGCGGGCTGCCTGCCCAACCCGGGCACATTTCAGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTCAG
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGGAGTCCAACCTACCACTTCGGGGTCACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCAATCACCAGCTGGGCCCCGGTCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAACTGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTTCACAGCAGCCGTCACCCCTGGGGAACCCAGACGTCCTCGTGGGTTCAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCCCTTGCCCTGGCCCTGGGTGGAGAGCTGGTCTACCAACGGCGGCCCTGGAGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAACTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCAAGGCCAACCTCCTCTTCAAAGGCTCTGTGGATAGCAACTGG
ATCGTGGGTGCCACGCTGGAGAAGAAGCTCCCAACCCCTGCCCCTGACACTGGCCCTTGCGGGCCTTCCTGAATCAC
CGCAAGAACAAGTTTCAGTGTGGCTTTGGCCTCACCATCGGCTAGCCCTCCTGGCCCCCGCCTTCCACGCCCTT
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCCCTT
GGGGTTCGGGGGGGGACATTGGAAGGAGGGACCCCGCCACCCAGCAGCTGAGGAGGGGATTCTGGAAGTGAAT
GGCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCAGTGGGCCTGGGGTCCCGGGAGGGATTCCGGAATTGA
GGGGCAGCAGGATTCTGAGCACCAGGGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCTGGCGTCCCCA
TCCTCCAAAGGGCCTGGGCCCCGCCCGAGGGGGCAGCGAGAGGAGCTTCCCCATCCCCGGTCAGTCCACCCTGCC
CCGTCCACTTTCCCATCTCCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACCAGGACATTTTACAGAAAAA
AAACAAAAACAACAAAAAATATACGTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2234

MGNVLAASSPPAGPPPPAPALVGLPPPPSPPGFTLPLGGSLGAGTSTSRSSERTPGAATASASGAAEDGACG
CLPNPGTFEECHRKCKELFPIQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL
VGDMDNSGSLNAQVIHQLPGLRSKMAIQTQQSKFVNWQVDGEYRGSDFTAAVTLGNPDVLVGSGILVAHYLSI
TPCLALGGELVYHRRPGEETVMSLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAFLNHRKNKFQCGFGLTIG

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FIGURE 2235

ACCTCCTGTACCTCTTAGCTTGTTTAATTTTTTTTACAGCATTATCAGTTTCCAGTTGTACCCCTACAATAATG
TACGTTCCAAGTGCCTGAAATAGTGCCTAGCACATAATGTGTGAAACACACACACACACACACATACCCATAA
CCCCTGAATGAATGAAGAGAAACCGAAAAAATAAAAGTATAATATCCCATCCCTGATCACTCTCCAGAAATGTA
TACTTCCAAGGAACCTTGCATATTTCTATAGGTAGAATAATTGATGATGATAATAACAGTAATAGCTATATTTGAA
TGTCCATTATTTACACTAATATTCACAGCAACTCTGCAAAGTAGTTATTATGAAGAGACTGAGGTGCAGAGAAGA
AAGTTCACATAACTGCTAGGTGCTGAAGCTGAGATTGTAACTATTGGATATCTGAATCCAGGGGTCATGCTCTT
CCCATTAACTGCATTGTTATATTATTTACAAATGTAACAAATATCAAAGAAAATCTTGGCATTTCATTTTAA
GAGGAATTAGGAAGGAAAAACAAATAGGTATATAAAGGTCAGCCTAAGTTGTCAGCAATTCCTTTTCCTTAATCTGT
AAGAATCTTGCTCATCGATCAGGGTGCTGTTAATCACACTAGGTCCCAATCTCTTAATAAGGGAGTTGGGAGGGG
TGTTTCATCCTAGGACAGGAGTCATCAGACTCGGTTAGAGTAATGAAAAGGATTATAATACTAATTTCTGAAGAG
AATGTGGGACTGAAGCTAAAAATACTCACTATAAAGTAACTCTTTGGCTATAGTCTATTATATCACAAAAATAT
TATAAAATCCTCAGGTTCTTTCTATCTTCCACACCTAATTTTCAAACCGATCAATTTTTTTAAGCCACTTAA
CCTGTGTGTAATTACTACTGTGGTCTCCTAGCACAGACAACAGCTGCTGACTGCTGTGGTATTGGCACGGATCAT
GTAGTCTATAGAGAATTTGATAAAAAGACTCAAACAATTTTCATGCCCTGTGCTGTTACAGAGGAGAACAAAATG
CTTTTCAGCAAGGATTTGAAAACTCTTCCGTCCCTGCAGGAAAGGATTGATGCTGATAGAAGAGCCTGGACAGATG
TAATGAGAATAAAGAAAAACAGATGGCTGGAGATGACATTTATCCAGGGTCACTTTGTGTCAGGCCCTAGGACTTAA
ATCGAAGTTGAACCTTTTTTTTTTTAACCAAATAGATAGGGGAAGGGAGGAGGGAGAGGGAGGACAGGGAGAGAAA
ATACCATGCATAAATTGTTTACTGAATTTTTATATCTGAGTGTTCAAATATTTCCAAGCCTGAGTATTGTCTAT
TGGTATAGATTTTGTAAATCAATAATTGATTATTTATTTGCACCTATTACAATGCCTGAAAAAGTGCACCACAT
GGATGTTAAGTAGAAATTCAGAAAGTAAGATGTCTTCAGCAACTCAGTAAACCTTACGCCACCTTTTGGTTTG
TAAAAGGTTTTTTATACATTTCAAACAGGTTGCACAAAAGTTAAAAATAATGGGGTCTTTTATAAATCCAAAGTAC
TGTGAAAACATTTTACATATTTTTTAAATCTTCTGACTAATGCTAAAACGTAATCTAATTAAATTTATACAGTT
ACTGCAGTAAGCATTAGGAAGTGAATATGATATACAAATAGTTTATAAAGACTCTATAGTTCCTATAATTTATT
TTACTGGCAAATGTCATGCAACAATAATAAATTATTGTAACTTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 2236

MGYYTFIFSVSLHSFSGLWVCVCVCVCFTHYVLGTISGTWNVHYCRGTTGN

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FIGURE 2237

GGGGAGAGCGGGTGTGTTTGAAGGCTCCGCGGACCGGCACTAGGAGCCGGGGGCGGGTCCGTGACCCCTCCGGCTGCT
CGGAGTGAACAGGCGGCCAGGAAAGAAGCGGGCCTGAACACCATGATCCCTTTGGAGAAGCCAGGCAGCGGCGGC
TCCTCCCCAGGCGCCACCTCAGGCTCGGGCCGGGCAGGCCGGGGTCTGAGCGGGCCGTGCCGGCCGCCGCCGCCG
CCCCAGGCCCCGCGGGCTGCTGACAGAGATACGCGCCGTGGTGCACCGAGCCCTTCCAGGACGGCTACAGCCTG
CCCGGGCCGGGAGCTGGGCAGGGGGAAATTTGCAGTGGTGAGAAAATGTATAAAGAAAGATTCTGGGAAAGAA
CTGCAAAGTTCATGAGAAAAAGAAGAAAAGGCCAAGATTGTCGGATGGAAATAATTCATGAGATTGCTGTA
GAACTAGCACAAAGACAATCCTTGGGTCATTAATTTACATGAAGTTTATGAGACTGCATCAGAAATGATCTTA
GTTCTGGAATATGCTGCTGGGGGTGAAATCTTTGACCAGTGTGTTGCAGACAGAGAAGAAGCCTTTAAAGAAAAA
GTTGTTCAAAGACTTATGCGACAGATTTTAGAAGGTGTTCACTTTTTACACACTCGTGATGTAGTTCATCTTGAT
GAAAGCCTCAGAATATTCTGTTGACAAGTGAATCTCCATTGGGTGACATTAAGATTGTTGATTTTGGCCTTTCA
GATATTGAAGAACAGTGAAGAGCTCCGAGAAATTATGGGTACCCCTGAATATGTGGCTCCTGAAATCTTAGT
GATCCTATAAGCATGGCAACAGATATGTGGAGCATTGGAGTGTAAACATATGTCATGCTTACAGGAATATCA
CTTTCTTAGGCAATGATAAAACAAGAAACATTCTTAAACATCTCACAGATGAATTTAAGTTATTCTGAGGAAGAA
TTTGATGTTTTGCTGAGTCGGCTGTTGATTTTATCAGGACACTTTTAGTTAAGAAACCTGAAGATCGAGCCACT
GCTGAAGAATGTCTAAAGCACCCCTGGTTGACACAGAGCAGTATTCAAGAGCCTTCTTTCAGGATGGAAAAGGCA
CTAGAAGAAGCAAATGCCCTCCAAGAAGGTCATTCTGTGCCTGAAATTAATTCGGATACCGACAAATCAGAAACC
GAGGAATCCATTGTAACCGAAGAGTTAATTGTAGTTACTTCATATACTCTAGGACAATGCAGACAGTCTGAAAAA
GAGAAAATGGAGCAAAAGGCCATTTCCAAACGATTTAAATTTGAGGAACCTTTGCTACAAGAAATTCAGGAGAA
TTTATCTACTGAGCAATATTTCCCTTTAGAACTTCAAGATTTCTACACTGAAAATGTTAATATTATTTATGGACC
TCTGGCCAAATGGTACATGTACTGGAAGTGGATAACCAGTATCACTTACACAAACAAAAATACTTTGTCAAATT
TGTGGAGTTAGGTGGAAGCCAGATTTTAAAGTTGCCAACCCAGGATATTTAACAGGTACAGTTACCCGTTTCAAT
GTTATTTTTAAGAAGGGAGATGTTGGCACCTTTGAATTCTACATCCTGTTTCTCCAGAATGAGAATTTGTGTACA
AAGATATTTGTATTCACTTTCTTTAAAAAATCCAAGTAAAGTGCCAAAACCTACATTTCTGTAAATCTCTTGCAT
TATTCATATGTGTATCTATATCTGCATAATGTTTGTTAATGTCTACTAAAATTGCTACTTTTTCACTTTGGATTT
GTTTTTGGCAAAATTTTAGTCTAAACAGACATCTAAATTTTCGAGACTTAGAATAACATTCACTAAAGTTTGATA
ATGTCTTTTTTAAATATTTCTTACTGCTTTATAGTGACTTGATTGGTTTCTGTTGTGTTTTTGCCTAAATACT
AGTAACATATCAGTGAAAAACCCTAATTTTTTTCTCTTCAATGTCAGTAGTAAGAGAGGTGGTAATTTTTTACC
TCTGAAATTATTCTGGGTTTAGGTGTCAGCTTTTGAGCTGCTTCCCTCATCACACCACACTCACATGCATCTGTT
CTCTCTCACACTCTATACCCCTGCCACTTCTGGCACCTCCCCCATGCTTGTCATTTAATTTTGGCCACTTGTA
GGTATCAGTGTGATCTGATCAACACTCTGGTTACCTTGGTCAGTGAAGATGCTACTATATTGCTTTTGTCCCA
AAGTGAGTAAAATCCCCTAGAGCAGAGAGAGAGAGAGAGAGAGAGAGTGTCTTCATGCCAACACAGCCTGTTTCTG
CTGAGTTTCTTATCAGCCCTCAAGCTATGCTAGGAAAAGTTATAAAATGCCAAAATATTTATAAACATTTACTTT
GTCCATAAAAAATTTACATTGGATACTCTGTAAGTAGGAGGTACTTTGTCCCAAAAAGATGTATAAGAATGTACT
AATAGTTTTATTTGATTAGGATTGAACAGTTCAGTTGTATCTATGCCCCACAGTGACCAGTAAAGTCCAATTAAA
ATATGGAAATGTAAAAGTGTATGCCGAATACCTTAAAGTAACTAATTATCCTTACACACAAAAGGCTCAGTGCAT
TAAATATTTGCCTATC

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FIGURE 2238

MIPLEKPGSGGSSPGATSGSGRAGRGLSGPCRPPPPQARGLLTEIRAVVRTEPFQDGYSLCPGRELGRGKFAVV
RKCICKDSGKEFAAKFMRKRRKGQDCRMEIIHEIAVLELAQDNPWVINLHEVYETASEMILVLEYAAGGEIFDQC
VADREEAFKEKDVQRLMRQILEGVHFLHTRDVVHLDLKPQNILLTSESPLGDIKIVDFGLSRILKNSEELREIMG
TPEYVAPEILSYDPISMATDMWSIGVLTIVMLTGISPFLGNDKQETFLNISQMNLSYSEEEFDVLSAVIDFIRT
LLVKKPEDRATAEECLKHPWLTQSSIQEPSFRMEKALEEANALQEGHSVPEINSDTDKSETEESIVTEELIVVTS
YTLGQCRQSEKEKMEQKAISKRFKFEEPLLQEIPGEFIY

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FIGURE 2239

CTTTCGCGCGGGCGGAAGAGCGCGCGCCAGCTTCGGCACACTTGGGAGCCGGATCCCAGCCCTACGCCTCGTCCC
CTACAAGCTCCTCCAAGCCCCGCGGGCTGCTGTGGGAGCGGCGGCCGTCTCTCTGGAGGTCTGTCTCTGGCAT
CCTCGGGGCCCGCAGGAAGGAAGAGGAGGCAGCGGCCGGAGCCCTGGTGGGCGGCCTGAGGTGAGAGCCCCGACCGG
CCCCTTTGGGAATATGCGCGACCGGTGGCTACCGGACCAGCAGCGGCCCTCGGCGGCAGCACACAGACTTCTTGG
GGAGTGGAAGGCGAAACGCGAGAAGATGCGCGCCAAGCAGAACCCCCGGGCCCCGGCCCCCGGGAGGGGGCGAG
CAGCGACGCCGCTGGGAAGCCCCCGCGGGGGCTCTGGGCACCCCGGCGGCCGCGCTGCCAACGAGCTCAACAA
CAACCTCCCGGGCGGCGCGCCGGCCGCACCTGCCGTCCCCGGTCCCGGGGGCGTGAAGTGCAGCGGTCTGGCTCCGC
CATGCTGACGCGGGCGCCCCCGGCCCGCGGCCGCGGCGGTTCGGAGGACGAGCCCCAGCCGCCTCTGCCTCGGC
TGCACCGCCGCCCCAGCGTGACGAGGAGGAGCCGGACGGCGTCCCAGAGAAGGGCAAGAGCTCGGGCCCCAGTGC
CAGGAAAGGCAAGGGGCAGATCGAGAAGAGGAAGCTGCGGGAGAAGCGGCGCTCCACCGGCGTGGTCAACATCCC
TGCCGCAGAGTGCTTAGATGAGTACGAAGATGATGAAGCAGGGCAGAAAGAGCGGAAACGAGAAGATGCAATTAC
ACAACAGAACTACTATTGAGAATGAAGCTGTAACTTACTAGATCCAGGCAGTTCCTATCTGCTACAGGAGCCACC
TAGAACAGTTTCAGGCAGATATAAAAGCACAACCAGTGTCTCTGAAGAAGATGTCTCAAGTAGATATTCTCGAAC
AGATAGAAGTGGGTTCCCTAGATATAACAGGGATGCAATGTTTCAGGTACTCTGGTTTCAAGTAGCACACTGGA
AAAGAAAATTGAAGATCTTGAAAAGGAAGTAGTAACAGAAAGACAAGAAAACCTAAGACTTGTGAGACTGATGCA
AGATAAAGAGGAAATGATTGGAAAACCTCAAAGAAGAAATTGATTTATTAAATAGAGACCTAGATGACATAGAAGA
TGAAAATGAACAGCTAAAGCAGGAAAATAAACTCTTTTGAAAGTTGTGGGTCAGCTGACCAGGTAGAGGATTCA
AGACTCAATGTGGAAAAAATATTTTAACTACTGATTGAATGTTAATGGTCAATGCTAGCACAAATATTCCTATGC
TGCAATACATTAAAATAACTAAGCAAGTATATTTATTTCTAGCAAACAGATGTTTGTTCCTAAATACTTCTTTT
TCATTATTGGTTTTTAAAAAAGCATTATCCTTTTATCTCACAAATAAGTAATATCTTTCAGTTATTAAATGATAGA
TAATGCCTTTTTTGGTTTTTGTGTGGTATTCAACTAATACATGGTTTTAAAGTCACAGCCGTTTGAATATATTTTATC
TTGGTAGTACATTTTCTCCCTTAGGAATATACATAGTCTTTGTTTACATGAGTTCCAATACTTTTGGGATGTTAC
CCTCACATGTCCCTATACTGATGTGTGCCACCTTTTATGTGTTGATGACTCACTCATAAGGTTTTTGGTC

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FIGURE 2240

MATGGYRTSSGLGGSTTDFLEEWKAKREKMRAKQNPPGPAPPGGGSSDAAGKPPAGALGTPAAAAANELNNNLPG
GAPAAPAVPGPGGVNCAVGSAMLTRAPPARGPRRSEDEPPAASASAAPPPQRDEEEDGVPEKGKSSGPSARKGK
GQIEKRKLREKRRSTGVVNIPAAECLDEYEDDEAGQKERKREDAITQNTIQNEAVNLLDPGSSYLLQEPPTVS
GRYKSTTSVSEEDVSSRYSRTDRSGFPRYNRDANVSGTLVSSSTLEKKIEDLEKEVVTERQENLRRLVRLMQDKEE
MIGKLKEEIDLLNRDLDDIEDENEQLKQENKTLLKVVGQLTR

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FIGURE 2241

AGGCCGCGCTCGCGCCGAGGGGCTGCGAGAGTGACCGCGGCTGCTCCAGCGCTGACGCCGAGCCATGSCGGACGA
GGAGCTTGAGGCGCTGAGGAGACAGAGGCTGGCCGAGCTGCAGGCCAAACACGGGGATCCTGGTGATGCGGCCCA
ACAGGAAGCAAAGCACAGGGAAGCAGAAATGAGAAACAGTATCTTAGCCCAAGTTCTGGATCAGTCGGCCCCGGGC
CAGGTAAAGTAACTTAGCACTTGTAAGCCTGAAAAAACTAAAGCAGTAGAGAATTACCTTATACAGATGGCAAG
ATATGGACAACCTAAGTGAGAAGGTATCAGAACAAGGTTTAAATAGAAATCCTTAAAAAAGTAAGCCAACAAACAGA
AAAGACAACAACAGTGAAATTCAACAGAAGAAAAGTAATGGACTCTGATGAAGATGACGATTATTGAACTACAAG
TGCTCACAGACTAGAACTTAACGGAACAAGTCTAGGACAGAAGTTAAGATCTGATTATTTACTTTGTTTATTGTC
TATATGCCTTTTAAAAAAATAAACTTGTTATGCAAAATAAAAAA¹AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2242

MADEELEALRRQRLAELQAKHGDPGDAAQQEAKHREAEMRNSILAQVLDQSARARLSNLALVKPEKTKAVENYLI
QMARYGQLSEKVSEQGLIEILKKVSQQTEKTTTVKFNRRKVMDSDEDDDY

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FIGURE 2243

GCCCCCTCCCTCCGCCCGCCCGCCGGCCCCCGCTCAGTCTGGCAGGCAGGCAGGCAATCGGTCCGAGTGGCTGTC
GGCTCTTCAGCTCTCCCGCTCGGCGTCTTCCTTCCTCCCGGTGAGCGTCCGGCGGCTGCACCGGGCGGCGGC
AGTCCCTGCGGGAGGGGCGACAAGAGCTGAGCGGCGGCGCGGAGCGTTCGAGCTCAGCGCGGCGGAGGCGGCGGC
GGCCCGGCAGCCAACATGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGATGGTCCGCGGGCAGGTGTTTCGAC
AGGGCCGCGCTACACCAACCTCTCGTACATCGGCGAGGGCGCCTACGGCATGGTGTGCTCTGCTTATGATAAT
AACAAAGTTCGAGTAGCTATCAAGAAAATCAGCCCCTTTGAGCACCAGACCTACTGCCAGAGAACCCTGAGG
AATAAAAAATCTTACTGCGCTTCAGACATGAGAACATCATTGGAATCAATGACATTATTTCGAGCACCACCATC
GAGCAAATGAAAGATGTATATATAGTACAGGACCTCATGGAAACAGATCTTTACAAGCTCTTGAAGACACAACAC
TAGCAATGACCATATCTGCTATTTTCTCTACCAGATCCTCAGAGGGTTAAAAATATATCCATTACAGCTAACGTT
TACCCGTGACCTCAAGCCTTCCAACCTGCTGCTCAACACCACCTGTGATCTCAAGATCTGTGACTTTGGCCTG
GTGTTGAGATCCAGACCATGATCACACAGGGTTCTGACAGAATATGTGGCCACACGTTGGTACAGGGCT
AGAAATTATGTTGAATTCCAAGGGCTACACCAAGTCCATTGATATTTGGTCTGTAGGCTGCATTCTGGCAGAA
ATCTTTTCTAACAGGCCCCATCTTCCAGGGAAGCATTATCTTGACCAGCTGAAACACATTTGGGTATTCTTGGA
TCCCCATCACAAGAAGACCTGAATTGTATAATAAATTTAAAAGCTAGGAACTATTTGCTTTCTCTCCACACAAA
AATAAGGTGCCATGGAACAGGCTGTTCCCAAATGCTGACTCCAAAGCTCTGGACTTATTGGACAAAATGTTGACA
TTCAACCCACACAAGAGGATTGAAGTAGAACAGGCTCTGGCCCCACCATATCTGGAGCAGTATTACGACCCGAGT
GACGAGCCCATCGCCGAAGCACCATTCAAGTTCGACATGGAATTGGATGACTTGCCTAAGGAAAAGCTCAAAGAA
CTAATTTTTGAAGAGACTGCTAGATTCCAGCCAGGATACAGATCTTAAATTTGTCAGGACAAGGGCTCAGAGGAC
TGGACGTGCTCAGACATCGGTGTTCTTCTTCCCAGTTCTTGACCCCTGGTCCGTGCTCCAGCCCGTCTTGGCTTA
TCCACTTTGACTCCTTTGAGCCGTTTGGAGGGGCGGTTTCTGGTAGTTGTGGCTTTTATGCTTTCAAAGAATTTCT
TTCAGTCCAGAGAATTCCTCCTGGCAGCCCTGTGTGTGTGTCACCCATTGGTGACCTGCGGCAGTATGTACTTCAGT
GCACCTTACTGCTTACTGTTGCTTTAGTCACTAATTGCTTTCTGGTTTGAAGATGCAGTGGTTCCTCCCTCTCC
TGAATCCTTTTCTACATGATGCCCTGCTGACCATGCAGCCGCACCAGAGAGAGATTCTTCCCCAATTGGCTCTAG
TCACTGGCATCTCACTTTATGATAGGGAAGGCTACTACCTAGGGCACTTTAAGTCAGTGACAGCCCTTATTTGC
ACTTCACCTTTTGACCATAACTGTTTCCCCAGAGCAGGAGCTTGTGGAAATACCTTGGCTGATGTTGCAGCCTGC
AGCAAGTGCTTCCGTCTCCGGAATCCTTGGGGAGCACTTGTCCACGTCTTTTCTCATATCATGGTAGTCACTAAC
ATATATAAGGTATGTGCTATTGGCCAGCTTTTAGAAAATGCAGTCATTTTTCTAAATAAAAAGGAAGTACTGCA
CCCAGCAGTGTCACTCTGTAGTTACTGTGGTCACTTGTACCATATAGAGGTGTAACACTTGTCAAGAAGCGTTAT
GTGCAGTACTTAATGTTTGTAAAGACTTACAAAAAAGATTTAAAGTGGCAGCTTCACTCGACATTTGGTGAGAGA
AGTACAAAGGTTGCAGTGCTGAGCTGTGGGCGGTTTCTGGGGATGTCCAGGGTGGAACCTCCACATGCTGGTGCA
TATACGCCCTTGAGCTACTTCAAATGTGGTTTATACCTCGCAGATACAAGAATCTTTATGAATATACAATTCTTT
TTCCTTCTACAGCTTAGCTCCGTCTTTTCAACCACGAACATTTAAACCCGACCTACTAGCACTGTTCTGTCTCTC
AAGTACTCAAATATTTCTGATACTGCTGAGTCAGACTGTCAGAAAAAGCTAGCACTAAGTCTGTTTGGAGCTCT
ATCCATATTTTACTGATCTCTTTAAGTATTTGTTCCCTGCCACTGTGTACTGTGGAGTTGACTCGGTGTTCTGTCC
CAGTGCGGTGCCTCCTCTTGACTTCCCCACTGCTCTCTGTGGTGAGAAATTTGCCTTGTTCAATAATTACTGTAC
CCTCGCATGACTGTTACAGCTTTCTGTGCAGAGATGACTGTCCAAGTGCCACATGCCTACGATTGAAATGAAAAC
TCTATTGTTACCTCTGAGTTGTGTTCCACGGAAAATGCTATCCAGCAGATCATTTAGGAAAAATAATTCTATTTT
TAGCTTTTCAATTTCTCAGCTGTCTTTTTTCTTGTGTTGATTTTGTACAGCAATGGAGAATGGGTTATATAAAGAC
TGCCGTGCTAATATGAACAGAAATGCATTTGTAATTCATGAAAATAAATGTACATCTTCTATCTTCAAAAAAAA
AAAAAAA

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FIGURE 2244

MAAAAAAGAGPEMVRGQVFDVGPRYTNSYIGEGAYGMVCSAYDNVNKVRVAIKKISPFQTYCQRTLREIKIL
LRFRHENIIGINDIIRAPTIEQMKDVYIVQDLMETDLYKLLKTQHLSNDHICYFLYQILRGLKYIHSANVLHRDL
KPSNLLLNTTCDLKICDFGLARVADPDHDHTGFLTEYVATRWRAPPEIMLSKGYTKSIDIWSVGCILAEMLSNR
PIFPGKHYLDQLNHILGILGSPSQEDLNCIINLKARNYLLSLPHKNKVPWNRLFPNADSKALDLLDKMLTFNPHK
RIEVEQALAHPLYEQYYDPSEPIAEAPFKFDMELDDLPKEKLKELIFEETARFQPGYRS

2469/2682
FIGURE 2245A

GCGCACTGGAGCCCTGGCCAGCGCGCAGCCTTCCCGGCGCGGCGGGCTGGGTCTTGGGAATTCTGGTTTGCTTT
GGCTCACTCGCTTTTTTACAAACCACTGGATCTTACATGCCTCTGTACCGCCCACTTCCACTCCATGTCCCCATGC
TCCTGCGCCAGCAACAGGACATGTTCTCTGGATGTCAGCTGAGTCATTAAAGTAACCTCTGCATGTCAGTAGACAG
ACCTTGGTAGAACACAAAGGCTCCAGAGACACCCATCTCTCCTCATTTTTTTGGTGTGTGTCTTACCGAAC
ATTCAAAACCTGTTTCTCAAAGCGTTTTGCAAAAACCTCAGACTGTTTTTCAAAGCAGAAGCACTGGAGTCCCCAG
CAGAAGCGCATGGGCAGTGTGCGAACCAACCGCTACAGCATCGTCTCTTCAGAAGAAGACGGTATGAAGTTGGCCA
CCATGGCAGTTGCAAATGGCTTTGGGAACGGGAAGAGTAAAGTCCACACCCGACAACAGTGCAGGAGCCGCTTTG
TGAAGAAAGATGGCCACTGTAATGTTCAAGTTCATCAATGTGGGTGAGAAGGGGCAACGGTACCTCGCAGACATCT
TCACCACGTGTGTGGACATTGCTGGCGGTGGATGCTGGTTATCTTCTGCCTGGCTTTTCGTCTGTATGGCTGT
TTTTTGGCTGTGTGTTTTGGTTGATAGCTCTGCTCCATGGGGACCTGGATGCATCCAAAGAGGGCAAAGCTTGTG
TGTCCGAGGTCAACAGCTTACGGCTGCCTTCTCTCCATTGAGACCCAGACAACCATAGGCTATGGTTTCA
GATGTGTCACGGATGAATGCCCAATTGCTGTTTTCATGGTGGTGTTCAGTCAATCGTGGGCTGCATCATCGATG
CTTTCATCATTGGCGCAGTCATGGCCAAGATGGCAAAGCCAAAGAAGAGAAAACGAGACTCTTGTCTTCAGTCACA
ATGCCGTGATTGCCATGAGAGACGGCAAGCTGTGTTTGTATGTGGCGAGTGGGCAATCTTCGGAAAAGCCACTTGG
TGGAAGCTCATGTTTCGAGCACAGCTCCTCAAATCCAGAATTACTTCTGAAGGGGAGTATATCCCTCTGGATCAAA
TAGACATCAATGTTGGGTTTGACAGTGGAAATCGATCGTATATTTCTGGTGTCCCCAATCACTATAGTCCATGAAA
TAGATGAAGACAGTCCCTTTATATGATTTGAGTAAACAGGACATTGACAACGCAGACTTTGAAATCGTGGTCATAC
TGGAAGGCATGGTGGGAAGCCACTGCCATGACGACACAGTGCCGTAGCTCTTATCTAGCAAATGAAATCCTGTGGG
GCCACCGCTATGAGCCTGTGCTCTTTGAAGAGAAGCACTACTACAAAGTGGACTATTCCAGGTTCCACAAAACCTT
ACGAAGTCCCCAACACTCCCCCTTTGTAGTGCCAGAGACTTAGCAGAAAAGAAATATATCCTCTCAAATGCAAATT
CATTTTGTCTATGAAAATGAAGTTGCCCTCACAAGCAAAGAGGAAGACGACAGTGAAAATGGAGTTCAGAAAGCA
CTAGTACGGACACGCCCCCTGACATAGACCTTACAACCAGGCAAGTGTACCTCTAGAGCCCAGGCCCTTACGGC
GAGAGTCGGAGATATGACTGACTGATTCTCTCTGGAATAGTTACTTTACAACACGGTCTGTTGGTCAGAGGCC
CAAAACAGTTATACAGATGACGGTACTGGTCAAGATGGGTCAAGCAAGCGGCCACAAGGGACTGAGGCAAGCACA
ATGGTTTCAAAGAAAGACTGTAAGCTCCATGATTAGCATAAAGCACTAACCATGTCTCCATGTGACCCGATGGCA
CATAGATGTTGTAGAATAAGTTATGGGTTTTTATGTTTTGTTTTGTGTTTTTCCAAAACCTTGAACCTTGCAAGCAA
GCCTTGGTTGGGTATTTGATTTATCCAGAATGCTTCTCTTTAGGGAACAAGGATGTTTTTAATGGCATAACAAAG
GCAAGACTCTGCCTTAATTTTTGAAAAGCTGCTAACTACATGAACACAAATGTGTATTTTTGTTGCAGTGTAGTT
TTCTTTTTGTGTAATTTTAAAGTCAGTGTGAAATTTTATTGAAAGCTCATGATGCGCTTCAAAGTGGCAAGTATT
TGGCTATTAAGTGCACAAAACAAGAGCCTGATTTTTTGGAGCCAGTAATTCGTTTGCTAGAATTGATTTTTTTCT
CTCTCTCTTTGTTACATAAGGGCATTATGTAACACTAGCCGAATGGTAGCCTCTGGGTTGTTGTTTTTTCTTTT
CCTCCATGATGTTAATGGGTTATCTCAAATTTTAAAGTTAACTACCTAAAATAAATACCAAGATAATGCATATT
TTTGCACAGTGGAGCTTACACTTAAAAGAAAACAAAGCCCCATGGGCTGCCTTGAATCAAGAGACAATAACTTT
GAACCTCAGCAAGACCTTGAACCGCCGGTTTCAATTTGCACCTTATTCAGAAAATAGAGCATCATACTACCGAGT
CTAGTCAGTGTAGTGCTTTTAAAAATTTTGTCTTTTCATGTAACCTTTTTTATTTTAAAGAGGAAGAAGAAGAAAGG
GGCACACACACACAATACCGACGTCTATCCTTTCTGCTAGGCAGTGTGCGCAGGCTCATGTGTAGTGTGCGAG
ATGGTGATGTACTCTTATATTTTTCTGGGCTTTTCTTTTGCACATTCCAAAATTCATTTTATAAGACAAGATCT
TCATAGGACCTCCTTGGCATCCTGGCATTCTCAAACCTGAGCCATCCAGCATGAAAGATAAATGGGTTTAAACCC
TTGCTGCTGAATTTTATTGCTGGACTGTGAGGACATCACCAGCCACCTTACCTTAGGGAAGATGCCACACCTG
GCCTCCACACTTGCTCTTCTGATCAGTCTGTCTGGATTGAGTCTACAGTGTGAGATAGGGCGGCAAATGCCAAA
GCAGGGAACAGGGAGGTGTGGACAAGCCAGTTTGTGTCAGCACTTCAGATCAAGTGTGTTAGGAAGGAGAGGAAA
CTTGCCTTTTTTTATGGCAGAGGATAGTAATGAAAATGTCTCAGTATTTTAGGGTCAATGAGAGCCATAAAAAATAT
AACATAATCACAAGTAAAGGAGATAATGGTCTAAAACAGCTATTTCCCTTTTCTGTGTGCATACTTATGACTGAA
TGTGAGCTAAGCATTTTCTCCTGTGGAGCCCTAGAGCAGGTTACTAAGGAAGGACACATTGTTTTCCAGAAGCCT
CCCCTGCCTGGCTGACTGCCTTGCTAGAAACATAATTTTTTTTTTCTCACTGAAGCTCAATAATGGAACCTTTTT
TTTTTTTTTTTTTAATTTAAAGTTCCCTATTTGTGAATTTCTGGGATTACTGACTTTTCTTTTTTAATGGAGTCTC
AAAATCAACTCTCTTATGGTATTATATCTCTGTATGCCATTAAAAACAGCTTGTCTAGAATCATGTATTTTGT
AAACTGATGTTTGTGATGGTCTCTGGTCTTGAACAGCCATATCTGAATGCCGTGCCTGCAAACTATGACAATT

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FIGURE 2245B

TTTGCTGTTTTTCAGCCTTCAGATTTGATGGCTTGGGAACTGAGGTGTTATTTTCAATGAAACAAAGAAAGAGAT
GTTAAGCAAGTGTTGTTTTAGATCCAAATGTAAAGGCAGGTTTGGGAAGGTGTTTAAAGAGTTGGAGGAATTGG
GGATTGAGTTGTAAAGAAAACCTTACAGAAGAGGCAACAATTTGGTTCTTGACAGTGAGAGGATATTGAGGGCTTC
AGCTGCTGCTATTATGATGTTTTGCAAAGGAAAATAATCAAACCAAAGAGTATTCAAGTGATATGTAAATTAAATG
AAGATACAGTGGAGAATGGGGGTGACCACAAAAGAGGCTCCCCCTAAACACACAGTGCTGCCACTTAAAAAGACT
TGAGAAATTTGAAAGGGGGTGGGTATGGGGGGGGCAAGAAAGAGGGAGGGAAATCTTCAACTTATTTCTGAAAA
AGAGAAAAAATATAAAATTTCTGGTGCACAGGTTTGTTTTTTCAAGAAAATTTTGCAGAAGCTATGTTTTTAAA
GTGTACATTTTATAAAGTTTATCAGATATTTTCATATTTAAAGCCAAATGTAAATAGAGGTCTGTAAAGAAAAAT
AATTGCCATAGAAAGTATAATTTTCAGTGCAGTAATTTCTGAGAGCTAGTACCTATATGCTACCGGTTAGCATGGT
TTTAGCAAATATATACCAGCCTTATAAGGTTTCGTATTGCTATGTTCTTCTGTTATTTATTTTCAGCATGGACTGTT
CATTTGAAACCTTTTTTCTAGTTATTAGCGTTTTAACAGTTACAAGCTTTAAATGGCAATTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTGTCAAGAGCCAAGACACAGGTAATGCACGACATTGATTGCTGCATTTTACCTTCAAAA
TATTTGTCCTTATTGACTGGGTCTCCTTAATTAATGTACACATGTCATTAGAAATGCAGACGGAGGGGACTCACCA
TGAATATCTGGGGTTGATTCCCAGATGTGTGTTGCTTCTCTATTGCAAGCAGATTCCCTGTTGGATTTACTTCGG
ATTTATTCCCTTTTAAAGAATTTTGCCCATATCTGGAAGGGCACTATATTTTGGGAGGAGCCATAGATTCCCTG
GTTATCCTATTTTAAACAAAATGTAGACAAAGTGAAGTCTATTTTGATTATTGAGAAAGGAGTAGTTTTCTATC
CCTCTAAGAGTATACTTGAATCAGACATTTTAAAGGATGTCACTATGGCACTGTTGTCAATTTCCAAATTCCTAGAA
AAGTTTGTTTTACTTTGTTTTTATTCTGTTAATGCATTCTTTCTTCTTTACTTCCTTTCTTACCAGTACACTC
CTATCTCAACTCTGTTTATTTGATGAGTTCTGTCCCGTAAATCATATTTCCCTTACAATTAATAAATGTCACTTC
ATATTTTATAATAAACCCTCAGTAAAAGCAAAGCTTGTCTGAGAAAGTAGAGTGAGTTCTTTTCACTCTGTG
TCTAATAATGTTAAGGTGGGAAAAAAGTGTGGCATAGCTACCTGCCCATCCCCAACCTCAGCAAAGTAGA
ATCTCTTTTCTGGTAATTTTGGGTTTCCGCTCTGGGCTCTGGCAAGTTGAACAATCCTAGCCATTGACAATCGTG
ATAGTTATTATTTTCCATTTGCTGTCTTTTGTATCTAAAGTCTTCCCTATTGTACTGCACAAACCATGGATTGT
ACATATTTTATATATTATGTCTTATTTTATTATTTCTAAATAAAAAAATTAAAAATTGAAAAAAAAAAAAA

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FIGURE 2246

MGSVRTNRYISIVSSEEDGMKLATMAVANGFGNGKSKVHTRQQCRSRFVKKDGHCNVQFINVGEKGQRYLADIFTT
CVDIRWRWMLVIFCLAFVLSWLFFGCVFWLIALHGDLDASKEGKACVSEVNSFTAFLFSIETQTTIGYGFRVC
TDECPIAVFMVVFQSIIVGCIIDAFIIGAVMAKMAKPKKRNETLVFSHNAVIAMRDGKLCMLWRVGNLRKSHLVEA
HVRAQLLSRITSEGEYIPLDQIDINVGFDSGIDRIFLVSPITIVHEIDEDSPLYDLSKQDIDNADFEIVVILEG
MVEATAMTTQCRSSYLANEILWGHRYEPVLFEEKHYKVDYSRFHKTYEVPNTPLCSARDLAEKKYILSNANSFC
YENEVALTSKEEDDSENGVPESTSTDTPPDIDLHNQASVPLEPRPLRRESEI

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FIGURE 2247

AGATTGTTCTGGCAAGGAACAGCCAGTGGGAGGTTCCAGCTGAGCGCTCCCCAGAGGTGAGCTGATCCCCAGCCA
CAGCACACAGGACCAGGCTGCGAGAAACAGCATCATCAGCATCATGCTATTACAATCCCAAACCATGGGGGTTTCT
CACAGCTTTACACCAAAGGGCATCACTATCCCTCAAAGAGAGAAAACCTGGACACATGTACCAAAACGAAGATTAC
CTGCAGAACGGGCTGCCAACAGAAACCACCGTTCTTGGGACTGTCCAGATCCTGTGTTGCCTGTTGATTTCAAGT
CTGGGGGCCATCTTGGTTTTTGTCTCCCTACCCCTCCCACTTCAATCCAGCAATTTCCACCACTTTGATGTCTGGG
TACCCATTTTTAGGAGCTCTGTGTTTTGGCATTACTGGATCCCTCTCAATTATCTCTGAAAACAATCAACTAAG
CCCTTTGACCTGAGCAGCTTGACCTCAAATGCAGTGAGTTCTGTACTGCAGGAGCAGGCCTCTTCCTCCTTGCT
GACAGCATGGTAGCCCTGAGGACTGCCTCTCAACATTGTGGCTCAGAAATGGATTATCTATCCTCATTGCCTTAT
TCGGAGTACTATTATCCAATATATGAAATCAAAGATTGTCTCCTGACCAGTGTCTAGTTTAAACAGGTGTCCTAGTG
GTGATGCTCATCTTCACTGTGCTGGAGCTCTTATTAGCTGCATACAGTTCTGTCTTTTGGTGGAACAGCTCTAC
TCCAACAACCCTGGGAGTTCATTTTCCTCGACCCAGTCACAAGATCATATCCAACAGGTCAAAAAGAGTTCTTCA
CGGTCTTGGATATAAGTAACTCTTGGCCTCAGAGGAAGGAAAAGCAACTCAACACTCATGGTCAAGTGTGATTAG
ACTTTTCCTGAAATCTCTGCCATTTTAGATACTGTGAAACAACTAAAAAAAAAAAAAGCTTTTGTGTTTGTATTTGT
TTACTATGAGTCGTTATTTAATTTCTCTTGAAAATAATTTTCCTCAAAGCCCAAGTCAATAAATGTTATCAGCCAG
TCTTCCAAAATGGTCATAAACTTTATAAACTGCTTTGGGTAACTGAGCAGAAGGTGATACACAGAAGGGAAAAT
GTGCACTCATGCTAGTGTGAATTTGGTAAGTCGCGTGA CTCTGCAGGCTGTTTCTGTATTATTTTCACACTCATA
TTGCTTAAATATTACATATTAGGGATTG

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FIGURE 2248

MLLQSQTMGVSHSFTPKGITIPQREKPGHMYQNE DY LQNGLP TETT VLGTVQILCCLLISSLGAILVFAPYPSHF
NPAISTTLMSGYPFLGALCFGITGSLSIISGKQSTKPF DLSSLTSNAVSSVTAGAGLFLADSMVALRTASQHCG
SEMDYLSSLPYSEYYYPIYEIKDCLLTSVSLTGVLVVMLIFTVLELLLAAYSSVFWWKQLYSNNPGSSFSSTQSQ
DHIQQVKKSSRSWI

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FIGURE 2249A

TTCAAGTATGGCAGACAAAGGATGTTCTGCGTGGGGAAATGTGGTGACACCCATTTACAAAGGACAGCTCACATA
GATTGAGTGCTCAGGAAGGACCAGCACCATAACCCAGTGCCGTGATGTGTATCATCTCAATTAGTCCTTGCCTCAGA
TGCAAAAGGAAACCATCGCCATCATCATCACCACCATCATCATCTTCTCCTGTGCAGATGGAAAGGCTGAGGCA
TAGAGAGGTGACGGAGTCTGCCCAGGACTGCAAGCCTGCTGGTGGCAGAGCCAGGTTCCAATGGAATGAAGGCTG
TCATCCTCAGATGGCAGGGTAGGCAGGTGGCTAGAGCTCACTTGGGAGAAGGGGAAAGGACACTGACTTTGGCTA
GGGATGGAGCAGAGCTTGGGCTGGCTTTCCATGCACGGGCAGGGGGCGTGGCTCATGGCTACGCTCCAGCCCCGG
GTGTGGACATTGAATCTTCCAGGTCTACCCTAGGCTATGGGTCTGGACAGCACTGTGATGGAAAGAAGACACTCT
ATGTCCTGCATTCTGTGACCAATGATGTGACTGTGGGAATGGCGCTGGCATCTGGCTGCCACTCTGGGACGGGTG
GCCAGCTGCCATCAGGCCCCACCCAGGATGGGACCACCATGCGACTTCTTCCCTCGCTCCTCCTGGTCATGTCCA
GAGCCCCAGGAGGACCAGCAAAGCCTCTCGAGCCGATGGCAGCTCACGTTCTGCCTTGTGAGCTACTCCTCTCCT
GGGCAATATTGGCTGCTTGTGTGGCTCTCCCCGGGGTATGTGACTGCCTCTGTGCTGGGCACCTGGCCTGGGCT
TTCCTTCTGGGCCTGGGCAGCTGGGCTCAGCTTGGACCCAGGCAGCAGCCACAGAGGGGGCCATGGAGGTGACAG
AGTTGCTTCTATGATGGTGAACGGGCAGCTGTGACACGGAGGAGGCGACCACTCCTCAGTTTCCAAGTGCTGCGG
TCAGGGCCGGGGCCAGCAAAGTCCCTCCCATATTCAAAGAGCGGGTTTGGGTTTGTCCCAGGAGGACATAGTCAG
GAGCCCATGCTGGGACATGCCTCCTCCAAAGTTCAGCCTGGATCCCCAGCCTCTGCCAACGGCCCCGCTCCTTAG
CTAACCAGCTTGCTCCTGGGTTCACGGCGGAGTCAGATGTTTCTGGGCAGTTTACCTTTGTGCCTTAAATGC
ATGTTGAGGACTTTAAGGAATTGTGGAGAAATAGGGCTGTGGCAAAGGCAAGTGACAACCTGGGAACAATGATCCC
GCAGAGGCTGCTGAGGCCTGGGCCCCAGGGGCGTGGGTTTCATCCTTCTGCCTGGGCTTTGGTGGGAGGGGCAGAC
TCTGTGGTCTGAGACACAAAAAACCACAAACATATGTGTGTACAGACACACAGCAGAGCCACACACACTTGT
GCCCCATGCACACACTCACAGGAGGCCCGTGGACTCCGCACAGGGAAGAAACTCCTCCGGTCGACAGTGGACGGCG
CTGCAGCAGGGACTCACCCCCAAGCCCTGCCTGCCTCCCATTGCCACCTGGCCCTGGCTTGATGGGCTTATCTC
ATGCTGTGGCCGGGGACCTCTTGCTTCCCTGCAACCCCTTGCTGGACTGGGGCCTGGGCCTCTCCTGGGCTGTGCC
TAGGGTTTGTAAACCAGGGCCTGTGCCGGCGTGACAGAGCATCTCTCCCTGGGAGGCTCAGGGCTGCCTCCTCG
AGCTCTGTGGGCCTGCAGTGGCCGGTGAGCTTGTGGTGTGGGTTTTAGGCTGTATCCTTCTACCTCCTTGAGCCC
AGGGGTCCCAGGCGCCCTGCAGCTGTCTCCTCGGCCATCCTGTGGGGCCCCGAGGCCTTGCCCTCACTTCAGTGC
CTGGGTGCTCAGGCTTTGCCAGGTGCCAGGAGAAGGTGTGAGCATGAGCCTATTGGACACACCTGGCGACGTAT
ACCAGGTGTCCACCCCTGCCACCATGGGGCCTCCCGATACGGCAACCACCACGGACCTGTGGGGACCAATGAGG
AAAGAGAGAGGCAGGTCTGGGCCAGGCTCACAGGGAAGTCCGGCATAGCAGACCCTGCCCCAGCAGGCCCCCTTGT
CCTTCTGGGTCTTGCTCCTTTCATGAGGAAGTAGCCCATCCCTGGTGGGGCTCCACCCCGCTTCTCAGTGGGCT
CTATGCTTGCCCTCGTGGAGTCAACCCCTCAGGCAGTCTGGGATCCTCTCCTTTAGACCCACTGTGCCTTCCCGG
CCTCCCGGGCTTCTGCTGGGGGCAGAAGAAATGCCTCCCCAGGTCTGTCTCTGGAGGCTCTGAGGGAGATGGGCT
TGGGGGCTGTAGGAGGAGGCAGGGATTCCAGGGTGTGAGGAAGGCAGGGGTGCCAGGTCCACCTAGTGAAGTAA
TAAACCGTGGGTGGTGATAGTGACCCAGTGCCCTCACTGCCAGCCCCGCCTGTCTCAGCCAGCACTGCAGGGA
TCCCAGGCCCAGACTCTGGAGGCCTTCACTGATCCCAGCCACCCAGAAAAGCTGCAGCCTGCAGGCACCAAGCCG
GGCCATATGCCAGTGCCAGCTAGGGCCCACCGCCCATCCTGCACACGGGGCCGCTGGGCAGGTGCCCTCACAC
CCCCAGGATGTCAGTGCTCACCTCGAGCAAAGCGCCCCAGCTCGGCCTTGGGAGGTGGTTCATGTCCAGGGGGATG
ATGGAGAGCTGTCCAACCAAGAGAGCGGGAGGGAGGGGAAGGAGGGAGGGAGAGAGATAGAGAGAGAGAGAGAG
AGAGGAAGTGTGGGCCCTAAGGCTGCCTTAGTGGAGGTGCGCGTGGCCTGCACCTACCAAGCCTAGCCACTCTC
GCGGCTCTGAGTGGCTCACAGGCTTGTGAGGGCCCCGTCGCTGCCTGCTGGGTCCCCACCAGGGCTCCCTTAGG
AATGCGCCATGGCTGCTATGACAATTTGCACAGCCCAGTGGCTTAAACACCATTTATACCACAGGTCCAGATGAA
TCCTGCAGGGCCAAGGTCTGGGGGTGCTGGAGGCCATGCTCCCTCAGGCTTGGGGGAGAACTTCCCTGCCTCC
TCCAGTCTCTCCATCCCTGAGCTCTCGGCTCCTCCTCCGCTTTCAGGGCCAGGGCGTAGCGTCTGCTCTCTCGGC
CTCTGCCTCCGCTTCCACCTCACCTGGCTTCTGTCTATGTGAGTCTCCTCTGCCAACCTCCTAGAAGGACACT
TGTGATTACATTAGGGCTCACCCCTTTAATCCAGGGGAGCCTCTCCACTTCATGATTTTTCAGCTAACTTGCTTCT
GCACAGACCCCTTTCCCTATAAGGGCACACATTCACTGGTCCCGGGGCTAAGGACCTTGCTCCAAGTCCCTCCA
CCCATGATGCTGTGCCTTCCAGAAACCTGTCTCTGCAGCTCGGTCTTGACCCCAAGCCTGCTGGTGACCTGAAC
TTCACAGGGTTATCCCTTGGACTGTGTGCAGCACGATGCAATTTCTGGGCCTGAATGTCAATGCTCCCTGGGGCA
GGACCTTGAGCCTGCAGCACACACTAGGCCACCTGCAGTCTCACAGGCCATGCCCTGGGTAGACAGGGAGGTGCT

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FIGURE 2249B

CAACCCAGCTCGGGTCTCTAGTCTGCCTGGCTACCATGCTTCTCACTCTCCTGCATCTGCAGACCCTGCGTTG
CCATGTGAGGCAGGGGTGGGGTGGGGCTGAGGGCGTGGCTTTGGTCCCTGGCTGTCCGGATGAAGTACCAGAGTG
ACGCCACAGCCCATCCCGGTGACATGCTCACCCCCAACCCCGTGTCCGGGACCCGGTCTTGTGTGGTCCCTGA
TGTGGAGTCTCAGTCTTAAGATACATCCAGAAAGTCTTGCCATGAATTGGAGGTGCAGAGTCTGCAGAGCC
TCTGGGCTGGGCTGGTGCCCCCAGGAGATGGAGGGCCTGGTGGATGCCCTCCTCCCTCAGAGCTGGGGCAGCTGC
CTCCCAGGGGTGGGACTCTGGGCTCAGAGAGAGGCCCTTGAGCTGCAGCTCAGGGGGATGCGAGGCTTCGTGGAC
TGTGTCTGGTCCATGTGGTGCACGTGTCTCCACCTCCAAGGAGAGGCTCCTCAGTGTGCACCTCCCCACATCC
GTCCTCTCTGCCGGCCCCGGGCGTCTGAGCAGTCATTCCATGCCAGCACCTCTGCAGCCTGCTGGGCCTCAGGTT
CTCTGTGAGGGACCTCCCCGGCCTTCGGCGGAGGTGGAGTAAGCTCCGTCAAGGCAGGTGGCTTCGTCCCTTCCT
GTGAGTGACACCAGTGATGAAATGGACCCCTCCACACAGGCATCCTCAGGGCACAGGGCCCTGGGGGCACCTTCC
TCCTTTTCGTATTTGTTGAGAAAAAAGTGGCATTGCGCTCACACCAGGATGCTGGAGCAGAGCTGACATGCTCGG
GAAAGGGCAGAGGTCACTGGGGGTGGGAAGGTCACTCAGTCCAGACTCAGCACCTCGTGGGCTGGTAAACTGAGG
CTCAAAGTGCTGGTGCCAGGCCTGAGGCCTCGCGGTGACCCCTCTCTCTGGTTCCAGCACCTGCCTGAGACCTG
CCCCAGGCACCCATAACCTGGAATTCCCTGTTTCCTTGTCAGGGCCTGAGGAAATGGCTCCCCAGGTCTGTCTC
TGGATGCTCTGAGGCAGATGGGCTTGGGGGCTCTAGGAGGAGGCAGGGACTCCAAGGTGTCAGGAAGGCAGGGGT
GCCGGGTCCACCCAGTGGAGTAACAACTGTGGGTGGCGTTTGGGCCTCCCCGCCTTCCCCACTGGGTGTGCTG
GTGCTGGCGCTGCTGGGTCAGGGCTGCCGTGACCCACAGACCACTGTCCATCCTGTGAGGCTCCCGTCTGGGC
ATGTCCTGGGTGGATTCTCTCTTCTGTAAAGTAGCTACATGAGGCAGGGGCTCCTGGATCCAAAGCAAATGACA
GGAATTCAGAGCCAGGTGCATCCACTCAGGGCAGCCAGTGTGGTGGAGCTGCCTCTAGCACATGGAGGAGAGT
GAAAGTCAGCCTGCCCCCTCTCACGAGAAAAGAACCTGGGGATACCTCTCAGCCTCCAGCGTTGCAAGTGCAAGGC
CAGTGGAGTTAATCTGCAACGTGCACGAGGGCGTGTGTGAGTGGCTGTGTGCAGGAGTGTGAGTGAGCAAGAGCA
AGAGCGCATGGCTCCTGTGTACCTCAAGGTGTGGGCTCCTGGTGGCTGCTCAGTGTTCACAGGGGTGAGAGGCC
TCATGTATCCTAGGCTGCCTGAGATTTCTGTGTGCTGATCGCATCCTCAGTTTCTTGTCCACCGCTTCACTGGCA
AGAGTCCCAGGCTCCAAGGACACCCTCCCTGCACATGATTGGGTGTTAATGGTGGCCTGGGTGTGTCTTCCCT
GGGGATGAGGGTTGGGTGTCCATGGTGCCTGGGCTGTGTCTCCCTAGGGATGAGGGTCCGGCCTCCACGATG
CCCTGGGCTGTGTGCTCTTATGGGAATGAGGGTTGGGTGTCCAAGATGCCCTGGGCTGTGTCTTCCCTGGGGAT
GAGGGTTGGATGTCCAAGATGCCCTGGGCTGTGTACTCCCTAGGAATGAGGGCTGGGTGTCCAAGATACCCTGG
GCTGTGTCTCCCTGGGGATGAGGGTTGGGTGTCCATGGTGCCTGGGCTGTGTCTCCCTGGGGATGACGGT
TGGGTGTCCATGGTGCCTGGGCTGTGTTTCTTGGGGATGAGGGTTGGGTGTCTATGGCATCCTGGGCAGGTGCT
TCCTTTCTGCACAAGGGTTGGGTGACCATGATGTCTGGCAATGGCTCCCTGGGTTGCCTCTTTTCTGCCATGT
GGGAAGAGCAGGGGAGGTTAGTTGGTCTCAGCACATCATTCTCTCAGGATAAGTAGAAGAGTGTCTGAGCTGTG
AGGCCAGTGTCTCAGCTTTGGAATTGTCTTCCCCACCCTCACCTCCATCCCATCAAAGCCGACATGTCGTGTGG
CAGCAGCGAGGTGGGTGTTGGCTGTTCTCTTGGGCTGGGGGTAGTCGTGGACGGGGAAAGGAGAGATGCTGGTC
AAAGGGCATGAAGTTTCTGCTGATGGGAGGAGTCAGTTCTTTTGATCTGTTGCACAGCATGGTGACTATAGTTAA
CAATAATGACTATTTCAAATTTGCTAAAAGATGAGATTTTAAATGTTCTCACCACAAAATGATAAGTGTGTGAGG
TGATGGATATGCCACTTACCTTGTTTTAATCATCCACAATATAGACAGGCATTGTCACTTTCATTGTACCCCA
GGAATCTTCACATTTGCTTTTTTGTCAATAAAAATAGAGACACAAAAGGAGAGAGGGGAGAGCAATAGACTCTT
CACGGAACCGTGGGCTTCTGCCTCCGGGTAAAAATAAACTGCAAAAAGGATTCCCAGGAAACCGTTCCCTCTTTCA
GCCCTTGGTTACAGGAAGCCGGATTGAGGAAATCTGCCTGGATGACATTACATGAACGGGCACATACAGGAAAA
CACGGTAATGTAATTAGAATAGTCAGAGAAAAAGTAGCCAGAAATGACATTACATGAACGGGCACATACAGGAGA
AAACACGGTAACGTAATTAGAATAGTCAGAGAAAAAGTAGCCAGAAATGACATTACATGAACGGGCACATATAGG
AGAAACCATGGTAACGTAATTAGAATAGTCAGAGAAAAAGTAGCCAGAAATGACATTACATGAACGGGCACATAC
AGGAAAACACGGTAATGTAATTAGAATAGTCAGAGAAAAAGTAGCCAGAAATGACATTACATGAACGGGCACATA
CAGGAGAAAAACACGGTAACGTAATTAGAATAGTCAGAGAAAAAGTAGCCAGAAATGACATTACATGAACGGGCAC
ATACAGGAGAAAAACACGGTAACGTAATTAGAATAGTCAGAGAAAAAGTAGCCAGAAATGCAACGTGCCCTTG
TAACACCAAATTTGATCAGTTTTTTAAAAATGATCGTTATGTAGGTGATTGAGAAGTAAATGTATTCTTTTTTA
AGGTAAAAATTTGGACCCTTATCATGCATACCCCTCTGTGCTCTTCAAATCAACATCATTATTAATATCTGTA
CATTTTTGCTCATCTGAGCCAGCACAGGCTGAGGCTGTGAGAATGGACACCTTTTGGTTGTTGGGTTTCTGTGCA

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FIGURE 2249C

TTTCTGGGGTGAAGCTGCGTGATTGAGAACGTAGCTCTTGGCTGCCATCTCGGGGATTATTAAGGACTGTGAACT
CTATCCACAAGCCATGGCAATATCTGTCCCACCGAATGCTCCCTCTAACACACTCTTACTCCCGTGATGTGTGTT
AAGGGCTCCGATGATGCTGAAAACAGCACAGGATGTGAAAAGGCAGGAACAGTTCTGAAGTCAAAGGCTGATGTC
CTGTTTCTCTTTCCCTCTGTGACCGACTCCCTTCCCAGTGGTAACAAGTACCCACAGCTTGGTTTGAATTTCTGC
ACGCTGTTGTCTGTGCACTCGCTCACACTTACGCACACAGCAGGCATGTGGGCGATGCTGGGTATTTTGTGTATG
AGTGGGATGCACATACACACATCTACATCCATATCATGCCCATGCATCTGTAACCTTGCTTTTCCCGTGTAAAGAAC
ACTTCTTAGAGTTTGTTCATGCAATGATGTGTCTGTGTGAATGATTGAAGGCATTTCTAACCCATTTTAAAGATGGCT
ACTTAGGACCATATGGATGTTGTACTGATGTCATTTGACCACGTCCATTGTTTCCATCTTTTGGGCTGTTCTTGT
GTATTTTACTTTCCATGTAACACTGTGACATTGAGAATTGGTACCTACAACAGTCTATTTGCTTTACATTAAATT
TGTAGGCTAATTTGTGTAAAAAAAAAAAAAAAAAAAA

2477/2682
FIGURE 2250

MGLSHAVAGDLLLPATPCWTGAWASPGLCCLGFVTQGLCRRAQSISPWEAQGCLLELCGPALAGELVWVFRLYPS
TS

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FIGURE 2251

CCAGAAACAGACCTGGGAGTGGAACAGCAGCAGTTAGGAGAGGACCCTGCTGGGGTCCAGGAGCCCGCTGCCTG
GCTGCCCAACCAGCTCCAACACTGCTGGAGGCCTCCATTCTCTGTTTCAGGGGAAGGCCCACTGGTTAGCTCAGAG
ATGGCTTCTGCGTGCTTTCTCCCTTCCGTCCTAGAGAACACATATTTTCTGTTTCTCCCTTGCTTCTCCCACT
TGGACCTGCTCAGAGCCCTGTGTACTCTGGTGTGTGGCCTCTCTCCCTCTCTCTTTTCTCCTTCTGGATTCTT
TCCTATCTTCATCCACAATCTCTACCCCTTATCTTGCCGTTACTCTACCCCGAGACTGCCTTCTGCCCTGGGTCC
CACCAAATAGATCCTGTCTTCCCTTAGTGAAAATGAGGCCACCTCTTGGGGAACAGAAGACGCCCCAGTGAAAA
CAGAGTGCAAACCTGGCCTGGCATGGGAGCCTCCTTCTGGCCAATCAGGCAGGCCAGAGAACAGCAGCGGAGGGC
CCTGTCTTTTCAGGCAGACCTCATGGCTGAGTGAGCCTCCCCTGGGCCCAGCACCCCACTCAGCATGGTCCAAGC
CCATGGGGGGCGCTCCAGAGCACAGCCGTTGACCTTGTCTTTGGGGGCAGCCATGACCCAGCCTCCGCTGAAAA
AACGCCAGCCAAGAAGCATGTGCGACTGCAGGAGAGGCGGGGCTCCAATGTGGCTCTGATGCTGGACGTTTCGGTC
CCTGGGGGGCCGTAGAACCCTATCTGCTCTGTGAACACACCCCGGGAGGTACCCCTACACTTCTGCGCACTGCTGG
ACACCCCTTACCCGCTGGGCCCCTCAGCGCCAGCCACCCAGCCCCAAGCAACTGGAAGAAGAATCTTGAAAGAT
CCCTTCAAACCTTTGTGAGCCCCGAAGACCTGGACATCCCTGGCCACGCCTCCAAGGACCGATACAAGACCCTT
GCCAAATCCCCAGAGCCGTGTCTGTCTAGGCCGGGCACAGAGCCAGGAGGACGGAGATTACATCAATGCCAACTA
CATCCGAGGCTATGACGGGAAGGAGAAGGTCTACATTGCCACCCAGGGCCCCATGCCCAACACTGTGTGCGACTT
CTGGGAGATGGTGTGGCAAGAGGAAGTGTCCCTCATTGTCTGCTCACTCAGCTCCGAGAGGGCAAGGAGAAATG
TGTCCACTACTGGCCACAGAAGAGGAAACCTATGGACCCTTCCAGATCCGATCCAGGACATGAAAGAGTGCCC
AGAATACACTGTGCGGCAGCTCACCATCCAGTACCAGGAAGAGCGCCGGTCAGTAAAGCACATCCTCTTTTCGGC
CTGGCCAGACCATCAGACACCAGAATCAGCTGGGCCCCCTGCTGCGCCTAGTGGCAGAGGTGGAGGAGAGCCCGGA
GACAGCCGCCACCCCGGGCCTATCGTAGTCCACTGCAGTGCAGGGATTGGCCGGACGGGCTGCTTCATCGCCAC
GCGAATTGGCTGTCAACAGCTGAAAGCCCCAGGAGAAGTGGACATTCTGGGTATTGTGTGCCAACTGCGGCTAGA
CAGAGGGGGGATGATCCAGACGGCAGAGCAGTACCAGTTCTGTCACCACACTTTGGCCCTGTATGCAGGCCAGCT
GCCTGAGGAACCCAGCCCCTGACCCCTGCCACCCCTCCGGTGGCCCCAGGTGCCTACCTCCCTCAAGCCTGGGAAGG
TGGGTCTGGGGAAGTGGGCCGAGTGATCTGGGGGTACCCCTTGGGTGGTGTGGGGAAGGAGTGCCTCCTTAGT
GGTGCTTGCACTACAGGAAGCAGCAGCAGTAAGGACAAGGGGCCGGATTCCAGGTCTTCAACACTGGCCACTCC
TCTGCTTCTCTGTTGGCCCCAGATGGACAGTAAGGGGAACCTCCAATGTCTCTCTGAACCTTAAAGACAGGAGCT
GGCATTATGACAGACAAAGAAAGAAGCCAGGTGTCTGCTGTTCTCTGAGACACTCTTTGTGAGCTTCAGTTT
CCTGTTCTATAACATGAACATAAGTGCTTAGCTGCCATGAGGGAAAAGTAATGAGAGAAGTTTCTAGAAGCCACT
CCAGCCACTCCTTCTGGGGCTGACAAAAGGGTGATTCCAAGATCATCCTTACCCGAGGTCTGCCCCAAGCACA
GGCCAGATGCAAGAATGGGGAAAAGTCTGGTCTGATCTCCAAGTCTCAACATCCTATCAGTGACTCTGCTCCCT
GACCACACATCGGAAGGGCTGGATGACCCCAATCAAAAGAAAGAACAGGACTCTGGTTACCCCTTGCTCCACCC
ATGTGTCATAAGAGTAGGCTACAGAGGTGACCAGGCCTGGCAGTTGAAATCTCTGGAAGAGGGAACATGTGGGA
CTACTCAGAGGCAAGAGGAGCTGCTCCTGCCTCCATGGTTGCTGGCCACTCCACCAACTACTCTTAGGGAGGC
TAAGCAGTCTCTGTTTTGCTTCCATGGCTCAAATAATACCCTGGGTATGCAGGACCCACTATACCTTGCAATTGC
TGAGTACACCTAGAGAGCTTGGCTGTTTCCAAAAACAATCAGGGTCATAACCATCCATGCAGACATGGAGGCTCG
GCTGAACCAGGACTCCTCACTGTCTACCTGAGAGAATGAGCACCCCTCATCCATCTCAGCATCAACACAATTTCC
AGGGGACCTCAGGTCTACCTCAGGACTGAACGCCACACCTCAGGATTCTCTCCTTGAATCTGAGACTGGCTGC
CCATTCTGAGATGGGGATGAAGGTAAAGATGCCGCATCACCAGGCACGCCGCCCTGACAGCTGCCTTGATACCAG
CTCTCTGTGGAACCCCCGAGGAGTTGGATCTGGAGAACAGCTGGGCCTCCTCACTCAGGACTTCTCTCCTGAAG
AACACGCAGTGCTAAAACTGAGGATGATTTCCCTAATGCTTCTGCTTGGCCTTATGGAGGAGCTGCTCCTTCTT
ACAGCCTTGGGGATGGACTTGCCACACCTCCACCTCCCCTGAGCCCTGTGAGAGGCACGACTGTCTATGCCAAT
GAGGCTCGGTGGGGGGCTCTCAAGTGCTGATCCTGCCCTGGGCTCAGAGCCAGCCAGAGGGAAGCAACTGCAC
AGCCCCACAGGCCCTCCCTGGCACTGTCCCCCAACCCATCTCAGAGCTCAGAGGGTACAAGCTCCAGAACAGT
AACCAAGTGGGAAAATAAAGACTTCTTGGATGACTGAC

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FIGURE 2252

MVQAHGGRSRAQPLTSLGAAMTQPPPEKTPAKKHVRLQERRGSNVALMLDVRS LGAVEPICSVNTPREVTLHFL
RTAGHPLTRWALQRQPPSPKOLEEEFLKIPSNFVSPEDLDIPGHASKDRYKTILPNPQSRVCLGRAQSQEDGDYI
NANYIRGYDGKEKVYIATQGMPNNTVSDFWEMVWQEEVSLIVMLTQLREGKEKCVHYWPTEEETYGPFQIRIQDM
KECPEYTVRQLTIQYQEERRSVKHILFSAWPDHQTPE SAGPLLRLVAEEVEESPETA AHPGPIVVHCSAGIGRTGC
A:TRIGCQQLKARGEVDILGIVCQLRLDRGGMIQTAEQYQFLHHTLALYAGQLPEEPS

2480/2682
FIGURE 2253

GAGGGCGCGATCCTGGCGTCCCCGACGGCCTGGGGCCCCAATCCAGAGGCCTGGGTGGGAGGGGACCAAGGGTG
TAGTAAGGAAGCGCCTTTTGCTGGAGGGCAACGGACCGGGGCGGGGAGTCGGGAGACCAGAGTGGGAGGAAGGCG
GGGAGTCCAGGTTCCGCCCCGGAGCCGACTTCCTCCTGGTCGGCGGCTGCAGCGGGGTGAGCGGCGGCAGCGGCC
GGGGATCCTGGAGCCATGGGGCGCGCGCGGACGCCATCCTGGATGCGCTGGAGAACCTGACCGCCGAGGAGCTC
AAGAAGTTCAAGCTGAAGCTGCTGTGCGGTGCCGCTGCGCGAGGGCTACGGGCGCATCCCGCGGGGCGCGCTGCTG
TCCATGGACGCCTTGACCTCACCGACAAGCTGGTCAGCTTCTACCTGGAGACCTACGGCGCCGAGCTCACCGCT
AACGTGCTGCGCGACATGGGCCTGCAGGAGATGGCCGGGCGAGCTGCAGGCGGCCACGCACCAGGGCTCTGGAGCC
GCGCCAGCTGGGATCCAGGCCCCCTCCTCAGTCGGCAGCCAAGCCAGGCCTGCACTTTATAGACCAGCACCGGGCT
GCGCTTATCGCGAGGGTCACAAACGTTGAGTGGCTGCTGGATGCTCTGTACGGGAAGGTCCTGACGGATGAGCAG
TACCAGGCAGTGCGGGCGGAGCCCACCAACCAAGCAAGATGCGGAAGCTCTTCAGTTTACACCAGCCTGGAAC
TGGACCTGCAAGGACTTGCTCCTCCAGGCCCTAAGGGAGTCCAGTCCTACCTGGTGGAGGACCTGGAGCGGAGC
TGAGGCTCCTTCCCAGCAACACTCCGGTCAGCCCCCTGGCAATCCCACCAATCATCCTGAATCTGATCTTTTTAT
ACACAATATACGAAAAGCCAGCTTGAAAAAAAAAAAA

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FIGURE 2254

MGRARDAILDALENLTAEELKKFKLLSVPLREGYGRIPRGALLSMDALDLTDKLVSFYLETYGAELTANVLRD
MGLQEMAGQLQAATHQGSGAAPAGIQAPPQSAAKPGLHFDQHRAALIARVTNVEWLLDALYGKVLTDQYQAVR
AEPTNPSKMRKLFSTPAWNWTCKDLLLQALRESQSYLVEDLERS

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FIGURE 2255

GGGGGAAGTTGCTGGCTGACTGGGCTTGGCAGGAAACCGCCTCGGAGCTGCAGCGAAGGCCAAGGAATCACTGAA
GATCGGCGAGGGAGGACAGGGGGTTCATCATGGGTGGCTTTTTCTCAAGTATATTTCCAGTCTGTTTGGAACTC
GGGAAATGAGAATTTTAATTTTGGGATTAGATGGAGCAGGAAAAACCACAATTTGTACAGATTACAAGTGGGAG
AAGTTGTTACTACTATACCTACCATTTGGATTTAATGTAGAGACGGTGACGTACAAAAACCTTAAATTCCAAGTCT
GGGATTTAGGAGGACAGACAAGTATCAGGCCATACTGGAGATGTTACTATTCAAACACAGATGCAGTCATTTATG
TAGTAGACAGTTGTGACCGAGACCGAATTGGCATTTCCAAATCAGAGTTAGTTGCCATGTTGGAGGAAGAAGAGC
TGAGAAAAGCCATTTTAGTGGTGTGTTGCAAATAAACAGGACATGGAACAGGCCATGACTTCCTCAGAGATGGCAA
ATTCACCTTGGGTACCTGCCTTGAAGGACCGAAAATGGCAGATATTCAAAACGTCAGCAACCAAGGCACCGGCC
TTGATGAGGCAATGGAATGGTTAGTTGAAACATTAAAAAGCAGACAGTTAATTTCAGTCCATTCTTCTCCCCTGAAA
TGAAGACTACATCACCTCTCTCCCTTTGGAAACAGTCAAGTGTACTTCACACTACTAGATGTTAAACTATATGA
TTATTGGCATATACTGACTGACTGCAATATTTGTAGTAAATAGGGAAAATAAGTATTTAGTTGGAGGGATAATTT
GATCGAATCACCTGAATGTTCTATGTAATGTAAAATATTCTTTTCTTGCTTTCTTGTTGTTAAGGTATATATTCTA
TTTGTATGGAATTCTTATTCAAATACAGTTGTATTAAAGAGTATACTCCTATTGGATGAAAAAACCT

2483/2682
FIGURE 2256

MGGFFSSIFSSLFGTREMRLILGLDGAGKTTILYRLQVGEVTTIPTIGFNVETVTYKNLKFQVWDLGGQTSIR
PYWRCYYSNTDAVIYVVDSCDRDRIGISKSELVAMLEEEELRKAILVVFANKQDMEQAMTSSEMANSGLPALKD
RKWQIFKTSATKGTGLDEAMEWLVELKSRQ

2484/2682
FIGURE 2257

GGGGACTCAAGGCTGGCCTGGCTCAAGTGAACAGCACGTCCAGGAGGCGACCTCGTCCGCGGGTTTGCATTCTGG
GGTGGACGAGCTGGGGGTTTCGGTCCGAGCCCGGTGGGAGGCTCCCGAGCGCAGCCTGGGCCCAGCCCACCCCGC
GCCGGCGGGCCATGGCAGGCACCCCTGGACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGA
AGCCTTCGATGACTCCGGGAAGGTGCGGGACCCGCAGCTGGTGCGCATGTTCTCATGATGCACCCCTGGTACAT
CCCCCTCCTCTCAGCTGGCGGCCAAGCTGCTCCACATCTACCAACAATCCCGGAAGGACAACCTCCAATTCCCTGCA
GGTGAACACGTGCCACCTGGTCAGGTACTGGATCTCCGCCTTCCCAGCGGAGTTTGACTTGAACCCGGAGTTGGC
TGAGCAGATCAAGGAGCTGAAGGCTCTGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGA
CAGCGTCCCTACCTACAAGTGAAGCGGCAGGTGACTCAGCGGAACCCCTGTGGGACAGAAAAAGCGCAAGATGTC
CCTGTTGTTTGACCACCTGGAGCCCATGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAA
GATCCTGTTTCAGGACTATCACAGTTTCGTGACTCATGGCTGCACTGTGGACAACCCCGTCTGGAGCGGTTTCAT
CTCCCTCTTCAACAGCGTCTCACAGTGGGTGCAGCTCATGATCCTCAGCAAACCCACAGCCCCGAGCGGGCCCT
GGTCATCACACACTTTGTCCACGTGGCGGAGAAGCTGCTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGT
CGGGGGCCTGAGCCACAGCTCCATCTCCCGCCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCT
CTGGGAGGGTCTCACGGAAGTAGTGACGGCGACAGGCAACTATGGCAACTACCGGCGTCGGCTGGCAGCCTGTGT
GGGCTTCCGCTTCCCGATCCTGGGTGTGCACCTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCT
GGACCCAGCCCCGACCCGGCTCAACGGGGCCAAGATGAAGCAGCTCTTTAGCATCCTGGAGGAGCTGGCCATGGT
GACCAGCCTGCGGCCACCAAGTACAGGCCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCA
GACGGAGGATGAGCTGTACCAAGCTGTCCCTGCAGCGGGAGCCGCGCTCCAAGTCTTCGCCAACCAAGCCCCACGAG
TTGCACCCCAACCCCGGCCCCCGGTATTGGAGGAGTGGACCTCGGCTGCCAAACCCAAGCTGGATCAGGCCCT
CGTGGTGGAGCACATCGAGAAGATGGTGGAGTCTGTGTTCCGGAACCTTGACGTCGATGGGGATGGCCACATCTC
ACAGGAAGAATTCCAGATCATCCGTGGGAACCTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGA
TGGCTGCATCAGCAGGGAGGAGATGGTTTCCTATTTCCTGCGCTCCAGCTCTGTGTTGGGGGGGCGCATGGGCTT
CGTACACAACCTTCAGGAGAGCAACTCCTTGCGCCCCGTCGCCTGCCGCCACTGCAAAGCCCTGATCCTGGGCAT
CTACAAGCAGGGCCTCAAATGCCGAGCCTGTGGAGTGAAGTGCACACAAGCAGTGCAAGGATCGCCTGTCAAGTTGA
GTGTGCGCGCAGGGCCCAGAGTGTGAGCCTGGAGGGGTCTGCACCTCACCCTCACCCATGCACAGCCACCATCA
CCGCGCCTTCAGCTTCTCTCTGCCCCGCCCTGGCAGGCGAGGCTCCAGGCCTCCAGAGATCCGTGAGGAGGAGGT
ACAGACGGTGGAGGATGGGGTGTGACATCCACTTGTAATAGATGCTGTGGTTGGATCAAGGACTCATTCCTGC
CTTGGAGAAAATACTTCAACCAGAGCAGGGAGCCTGGGGGTGTGCGGGCAGGAGGCTGGGGATGGGGGTGGGATA
TGAGGGTGGCATGCAGCTGAGGGCAGGGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTTGTGAATATTGT
ATTTTCCAGATGGAATAAAAAGGCCCGTGAATTAACCTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2258

MAGTLDLDKGCTVEELLRGCIEAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKLLHIYQQSRKDNSNSLQVKT
CHLVRYWISAFPAEFDLNP ELAEQIKELKALLDQEGNRRHSSLIDIDSVPTYKWKQVTQRNPVGQKKRKMSLLF
DHLEPMELAEHLTYLEYRSFCKILFQDYHSFVTHGCTVDNPVLERFISLFNSVSQWVQLMILSKPTAPQRALVIT
HFVHVAEKLQLQNFNTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELVTATGNYGNYRRRLAACVGFR
! LGVHLKDLVALQLALPDWLDPARTRLNGAKMKQLFSILEELAMVTSLRPPVQANPDLLSLLTVSLDQYQTED
• QLSLQREPRSKSSPTSPTSCTPPPRPPVLEEWTSAAKPKLDQALVVEHIEKMVESVFRNFDVDGDGHISQEE
• I RGNFPYLSAFGDLDQNDGCLISREEMVSYFLRSSSVLGGRMGFVHNFQESNSLRPVACRHCKALILGIYKQ
GLKCRACGVNCHKQCKDRLSVECRRAQSVSLEGSAPSPSPMHSHHHRAFSFSLPRPGRGRSRPPEIREEEVQTV
VGVFDIHL

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FIGURE 2259

CGGCGCCGAGTAGCCGGGCGGGCCGGAGCGCGGGCGCGGGAGGCAGCTGCGCCCCGGCTCCTCCCCCTCCCAGG
CCCCGCCCCCGCCGGGCCCCGGCGATGGTGACACATGCGGGCGGGCCGCGCGGCAGGACCATGGTTGAGCGC
GCCAGCAAGTTTCGTGCTGGTGGTGCGGGCTCGGTGTGCTTCATGCTCATCTTGTACCAGTACGCGGGCCCAGGA
CTGAGCCTGGGCGCGCCGGCGGCCGCGCGCCCCGACGACCTGTACCTGTTCCCCACGCCCCACCCCCACTAC
GAGAAGAAGTACTACTTCCCGGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGACGTGATC
GTCTTCCTGCACATCCAGAAGACGGGCGGCACCACCTTCGGCCGCCACCTCGTGCAGAACGTACGCCTCGAGGTG
CCGTGCGACTGCCGGCCCCGGCCAGAAGAAGTGCACCTGTACCGGCCCAACCGCCGCGAGACTTGGCTCTTCTCC
CGCTTCTCCACCGGCTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTCACCAACTGCGTGCCCCGGCGTGCTG
GACCGCCGCGACTCCGCCGCGCTGCGCACGCCCAGGAAGTTCTACTACATCACCTGCTACGAGACCCCGTGTCC
CGCTACCTGAGCGAGTGGCGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTCTTTGCATATGTGTGATGGGCGC
ACGCCCCACGCCTGAGGAGCTGCCGCCCTGCTACGAGGGCACGGACTGGTCGGGCTGCACGCTACAGGAGTTTCATG
GACTGCCCCGTACAACCTGGCCAACAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTGCTACAAC
CTGTCTTCATCCCCGAGGGCAAGCGGGCCCAGCTGCTGCTCGAGAGCGCCAAGAACCTGCGGGGCATGGCC
TTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCAGTACCTGTTTCGAGCGGACGTTCAACCTCAAGTTCATCCGG
CCCTTCATGCAGTACAATAGCACGCGGGCGGGCGGGCGTGGAGGTGGATGAAGACACCATCCGGCGCATCGAGGAG
CTCAACGACCTGGACATGCAGCTGTACGACTACGCCAAGGACCTCTTCAGCAGCGCTACCAGTACAAGCGGCAG
CTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAGGAGGCACTGCCGCGG
GAGGATGCCGACGAGCCGGGCGCGTGCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTAGTGGCGG
TGGTGGCCACGGGGAGGCCTCTTGGGGGGTGTGGGGGATAAAACAGGACAGACGACAGGTCCACCCAAGACTGTC
AAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCTTGAAAAAAACAGAGCAGGGATGTAGTGGG
GCTGGGCAGGGATGGGGGCTTGAGAAATCAACAGGTGCAGCCCAGTGGGTGAGAGGAAAGCGTGCTCGAAGGATG
CCATGGTCAGGGCAGGGCCTCCAGAGCAGGTGTTGTGCCCTGGAGCTGCTCTCCTGGCCTCCTTGGATTTATCGCA
AAACTGAAGGTTTTCGCAAGAGACGAGGACAGCGGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCCTCACCAA
CTATGCACACAGCACTCGCTCTTAACCTCCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAACTGCCCC
AGCTCCAGGCCATCCCATAGCCCCCTCCTCTTCTGGGTGCCCCCAATGCCCCGAGGCCTGGGGAGCCCCCAGTCA
CCCATCTGTAGCTCCCTCAAAGTCAGGGCCCCACCCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCCCAGGAAG
CCTGCTCCCCTCTCTGGCCCATGGTCCTGCTTCATGCTTTGGGTGAGGAGCCAAAGCTGATGTTTCAGGCCCCAC
CCTACTCCCTACAGTCCCTCAGACCCCG

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FIGURE 2260

MVERASKFVLVVAGSVCFMLIJ.YQYAGPGLSLGAPGGRAPPDDLFLFPTDPHYEKKYYFPVRELERSLRFDMSG
DDVIVFLHIQKTGGTTFGRHLVQNVRLVPCDCRPGQKKCTCYRPNRRETWLF SRFSTGWSCGLHADWTELTNCV
PGVLDRRDSAALRTPRKFYIITLLRDPVSRYLSEWRHVQRGATWKTSLHMC DGRTPPTPEELPPCYEGTDWSGCTL
QEFMDCPYNLANNRQVRMLADLSLVGCYNLSFIPEGKRAQLLES AKKNLRGMAFFGLTEFQRKTQYLFERTFNL
KFIRPFMQYNSTRAGGVEVDEDTIRRIEELNDLDMQLYDYAKDLFQQRYQYKROLERREQRLRSREERLLHRAKE
ALPREDADEPGRVPTEDYMSHII EKW

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FIGURE 2261

CTGTGCGCTGCTGAGCTGAGCTGGGGCGCGGCCGCTGTCTGCACCGGCAGCACCATGTCGCTCATGGTCATCAG
CATGGCGTGTGTTGGGTTCTTCTTGCTGCAGGGGGCCTGGACACATGAGGGTGGTCAGGACAAGCCCTTGCTGTC
TGCCTGGCCCAGCGCTGTGGTGCCCTCGAGGAGGACATGTGACTCTTCTGTGTGCTCTCGTCTTGGGTTTACCAT
CTTCAGTCTGTACAAAGAAGATGGGGTGCCTGTCCCTGAGCTCTACAACAAAATATTCTGGAAGAGCATCCTCAT
GGGCCCTGTGACCCCTGCACACGCAGGGACCTACAGATGTGCGGGTTACACCCACGCTCCCCCATTGAGTGGTC
AGCACCCAGCAACCCCTGGTGATCGTGGTCACAGGTCTATTTGGGAAACCTTCACTCTCAGCCCAGCCGGGGCC
CACGGTTCGCACAGGAGAGAACGTGACCTTGTCTGCAGCTCCAGGAGCTCATTTGACATGTACCATCTATCCAG
GGAGGGGAGGGCCCATGAACCTAGGCTCCCTGCAGTGCCAGCGTCAATGGAACATTCCAGGCTGACTTTCTCT
GGGCCCTGCCACCCACGGAGGGACCTACACATGCTTCGGCTCTCTCCATGACTCACCCCTATGAGTGGTCAGACCC
GAGTGACCCACTGCTTGTTCTGTTCACAGGAACTCTTCAAGTAGTTTCATCTTCACCCACTGAACCAAGCTCCAA
AACTGGTATCCGCAGACACCTGCACATTCTGATTGGGACCTCAGTGGCTATCATCCTCTTCATCATCCTCTTCTT
CTTTCTCCTTCATTGCTGCTGCTCCAACAAAAGAATGCTGCTGTAATGGACCAAGAGCCTGCCGGGGACAGAAC
AGTGAACAGGGAGGACTCTGATGATCAAGACCCTCAGGAGGTGACATATGCACAGTTGGATCACTGCGTTTTAC
ACAGACAAAAATCACTTCCCTTCTCAGAGGCCCAAGACACCTCCAACAGATACCACCATGTACATGGAACCTCC
AAATGCTAAGCCAAGATCATTGTCTCTCTGCCATAAGCACACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGAC
AACAGCCCTGTCTCAAACCGGGTTGCTAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCATCAGTCTTCATC
TTAGGGGATCGCTCTTCTCCTCACACCACAAATCTGAACATGCCTCTCTCTTGCTTACAAATGTCTAAGGTCCCCAC
TGCCTGCTGGAGAGAAGACACACTCCTTTGCTTAGCCCACAATTCTCTATTTCACCTGACCCCTGCCACCTCTC
CAACTGAACCTGGCTTACTTCTAGTCTACTTGAGGCTGCAATCACACTGAGGAACTCACAATTCCAGACATACAA
GAGGCTCCCTCTTAACATGGCACTGAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTTCACCTTTCCTCAGAC
TATTTTCCAGCCTTCTGTCTCAGTCAGCAGTGAAACTTATAAAATTTTTTGTGATTTCATGTAGCTGTCTCCTTTT
CAAATAAACATGTCTGCCCTC

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FIGURE 2262

MSLMVISMACVGFFLLQGAWTHEGGQDKPLLSAWPSAVVPRGGHVTLPCRSLGFTIFSLYKEDGVPVPPELYNKI
FWKSILMGPVTPAHAGTYRCRGSHPRSP IEWSAPSNPLVIVVTGLFGKPSLSAQPGPTVRTGENVTLSCSSRSSF
DMYHLSREGRAHEPRLPAVPSVNGTFQADFPLGPATHGGTYTCFGLHDSPIEWSDPDPLLVSVTGNSSSSSSSS
PTEPSSKTGIRRHLHILIGTSVAIILFIILFFLLHCCCSNKKNAAVMDQEPAGDRTVNREDSDDQDPQEVTYAQ
LDHCVFTQTKITSPSQRPKTPPTDTTMYMELPNAPRSLSPAHHHSQALRGSSRETTALSQNRVASSHVPAAGI

'2490/2682
FIGURE 2263

TTTTTTTTGCTTTTTGCAGATTGAAATTTAATTAAGCTATTAACCTCTTAATCATCACATCCTCCAACCTCTGTT
TTAACTCCCCCTCCCCCTCCCCCTTTTTTTTTTAAGGAATAAAGGGATTTCATTCCTCATTTTAACTGATGTTACAG
TGAAGATGGGTTCTTGAACCTCTGGAAGCCTGGATGAGCCACCTAATCTCAAAGATAAAAAACCAAGACCAATGC
GTATTGGGGAAAAGAATGCTTAGTACTGCAAGACTGTTGAATACCTGTTGAATATTCTTATTGAGGTTTTTTCCT
AAACATACTTCAGTAACATCTTACCGGACAATTGCACTGGAGAAATGTTGATCCCTGGCTGGAATGTCATACCAT
TGACCCATTTGAAGAGTTAAAGCTGGATTTGACTGCTCTATTCTACCAGGAATATTGTTAGGGTAGCCTTTTCCA
GTTTCTAAACAATTGTAATCATTTATTGACTCAGCAATTCCTCAGATAACAGGTCAAAAAGATGTACAGATACATT
CTGAAGTTTTCTTGCTATTAAAGGCACAAGAGTTTTCTTGATTTTGGACTGACAATGTAGCATGTTTCCATTTAG
TTTGTTAGTGAGGTGGTTTTCCCTTTGAAAGCCATTTGGTATATTACCATAACAATTAGTTTAAATATGATTACA
TAAGAAAACTATGATAAAACCCAGCAATTTTAGTAGTTGTGAAAATACGTTTTTTAAATCATGTTTAAAGAAGAT
TGCAAGACTTGAAACCAATCCTGATGGGGGAATTCTGTTTAACTCCTGTTAATCTGTTTAAATTTCTGTTTAAATC
CTTAGTTTCTTAACTGCATAGCTTATCCTGTATTGTACTTTTTTCTTTTTTAACTCCCAAACAAGAAGCTTG
AAACTTTTTCTGTATTTTAAATTTGAAATTTGGTCACAGGGTATAGTCAGATTTTTATTAAAGGTTTGGTTTGACA
ACCTTTAAAGAAAGGTTTACCTCGCTAATACTTCTTAATAACATGCATCAAATGATATTCCCTATGGTGAAGTAT
ATCTCAAAGTTATGTATCTTTTCAATTTTTGGCATTGTTGGTGCTTATGGACTTAGTACCCAGGCAACAAGATCTATT
ATCACCTACTCTCTTGATTTCGCTATTATTTCCCAAAAAAAAAAAGGGGCATATATCATAAGAATAATATTAGA
ATTATTTTGTCTCTCCACAAGCCCATGGTAGAGATTTCTATGTTCCCATTTCTCCCTTTCACTCAGAGTTATGTT
GACTGGGGGCGGTGGCTCATTTGGGAAGCCAAGGCGGGTGAATCACTTGAGGTCAGGAGTTCAAGACCAGCTAGC
CAATCACGGCGAACTCCGTCCTACTAAAAATATAAAAAATTAGTCCCGTCCTACTAAAAATATAAAAAATTAGT
CAGACGTGGTACCTGTTTGGTGGTGTGCATCTGCTAGTCCCACTACTCGGGACGCTGAGGCAGGTGAATTGCAT
GATCCAGGAGGCAGAGGCTGCAATGAGCTGAGATCATGCCACTGCCTCCAGCCTGGGTGACAAGTGAGACTGTC
TCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAGGGTCCTTACTTGCAATTAATGCATCCACATTATCCAT
GTACTCACCAGGATTTTTTGTATAAACAAAAATACCCACTCTGGTTACTTATTAAGAGATTATCAGTCAATTTA
CAAAAACAACAGGAAGATTTACAAAGAAAAAAAAAAACAAAGGAAGCAAGAACATCCAGAACTCACAGCACAGAAT
ACTGTGCTTAAATGCTGCTGCAAGGAGTATTAATTAACCTTATACCCTACTGTGACACTTAACAGGCCAGGTGTG
GTGGCTCACGCCTGTATCCAGCACTTTGGGCTGAAGGCGGAGTACACTTGAACCCAGGACAGCCTGGGCAACAT
GGTGAGACCCCGTGTCTACAAAAATAAAAAAGCCGGGAGTGGTGGCAAGCTCCTATAGTTCCAGCTACTTGGGA
GACTGAGGTTGAGGGATCACTTCAGCCTGGGAGGTCAAGGTACAGTGAGCTATAATCAAGCCACCGCACTCTGG
CCTGGGCAACAGAGACAGTCTCAAAAAGAAAAAAAAAAAAAGCACTTAACACACTTTATGAATACAATATGGCACA
TCTATCTGCCCATTAGAGTGAGACTCCTGAGTATTTTACTCATCTTTCCATTCTCAAATGCAAAGAGTATGTGGC
ATATAATAACTGTCCGAATGTACGACTGACATCTTAAAGCGTGTGCGTCCGCAAACTTTTTTCGTAAAGGGCCAGG
TAAGTAAACATTATAAGCTTTGTAATCCACACAGTCTCTGTTCAAACCATTCTACTGTTGTAGCAGGAAAGCAGC
CATGGATAATATGTAAACAAGTCAGCTACGATGTGTTCAAATAAACTTTATAAAAACAGGCAGTAGGCTGGGTT
TAGCCCATGGACCACAATTTGCCAAGTATTTAACAAGAATCAACACTTTTCCTTTCATAATTTAATTGAAGTTGG
TACCTACAAAGATATGAGCTCACTACTACATATGACTATCTGTAATGGATCAATTTTGGATATGACTTTGGGTGG
GGGTAAAAAAGAACCAGACATGTAATATAGATGAATAATGAAAATAACAGGGCTGGGTGCAGTTGCCTGCAC
TTTAGGAGGCTGAGGCAGGAGCATCTCTGGAACCTGGGAGGCAGAGGTTGCAGTGAGCCAAGATTGCGCCATTGC
ACTCCAGCCAAGGGGACAAGAGCAAAAACAAAAACAAAAACAAAAACCTTTAAGGTACCAGCCTGGCTAAGCAGT
TAACATACCTCACTTTATCAG

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FIGURE 2264

MGEFCLILFNLFNFCLILSFLTCTIAYPVLYFFSFLNSQTRSLKFLYFKIEIWSQGIVRFLLRFGLTTFKERFTS
LILLNNMHQMIFPMVKYISKLCIFHFVHLVMDLVPRQORSIITYSLVFAIISQKKKRGYHKNNIRIILFLPQA
HGRDFYVPILPFTQSYVDWGRWLIWEAKAGESLEVRSSRPASQSRNSVSTKNIKISPVSTKNIKISQWYLFGG
VHLLVPTTRDAEAGELHDPGGRGCNELRSCHCTPAWVTSETVSKKKKKKKKKTRVLTCLNASTLFHVLTRIFCY
PLWLLIKRLSVNLQKQEDLQRKKKQRKQEHPELTAQNTVLKMLLQGVLINLYPTVTLNRPGVVAHACIPA
EGGVHLNPGQPGQHGETPCLQKIKKPGVVASSYSSSYLGD

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FIGURE 2265

GCGGCCGCGTCGACTGTGACACTGCCAGCAGCGCGCAGAGGGAGGGATGGGGGCGGGTATCGGCGTAGGGGCCCT
CGGAAAGAACGGATATTGCTGTGACACCGCGGGGACGCTCTGAAGGGACGAGTGTGGTGTGGCACC GGTCACG
CTGAAGGAGCCGGCGGAACCGGGTGGCCATGGGGATGTGGGCATCGCTGGACGCTTTGTGGGAGATGCCGGCCAA
GAAGCGTATCTTCGGGGCCGTGCTGCTCTTTTCCTGGACAGTGTATCTTTGGGAGACCTTCCTAGCACAGCGGCA
GAGAAGGATATATAAAACAACAACCTCATGTACCACCGGAGTTAGGACAGATCATGGATTCTGAAACATTGAGAA
ATCTCGACTCTATCAACTGGATAAAAGCACTTTCAGCTTCTGGTCAGGACTCTATTTCAGAGACTGAAGGCACTCT
TATTCTTCTCTTTGGAGGAATACCTTATCTCTGGAGACTTTCCTGGACGGTTCTGTGGTTATGCTGGCTTTGGACC
AGAATATGAGATCACTCAGTCCCTGGTGTTTCTGCTGTTGGCTACACTTTTCAGTGCAATTGACTGGTTTGCCATG
GAGTCTTTATAACTTTTGTGATAGAAGAAAACATGGCTTCAATCAACAGACTTTGGGGTTCTTCATGAAAGA
TGCAATCAAGAAATTTGTTGTGACTCAGTGTATTTTGTGCTGTGTCTTCACTTCTACTTTACATTATTAATAAT
TGGGGGTGACTATTTTTTTATTTATGCCTGGCTGTTTACATTAGTTGTGTCTCTGGTTCTTGTCACAATCTATGC
TGATTATATTGCCCCTTTATTTGACAAATTCACACCTCTGCCTGAGGGAAAGCTTAAAGAAGAAATGAAGTAAT
GGCAAAGAGTATTGACTTTCCTTTGACGAAGGTGTATGTTGTGGAAGGATCTAAACGCTCTTCCCACAGCAATGC
TTATTTTTATGGCTTCTTCAAGAACAAGCGAATAGTTTGTGTTGACACTCTACTAGAAGAGTACTCTGTACTAAA
CAAAGACATCCAGGAGGATTCTGGCATGGAACCCCGCAATGAGGAAGAAGGGAACAGTGAAGAAATAAAAGCTAA
AGTTAAAAATAAGAAACAAGGATGTAAAAATGAGGAGGTACTCGCTGTACTAGGCCATGAAGTGGGGCACTGGAA
GTTGGGACATACAGTCAAAAATATCATTATTAGCCAGATGAATTCCTTCTGTGTTTTTTTTTATTTGCTGTATT
AATTGGTCGAAAGGAGCTTTTTTGCTGCATTTGGTTTTTATGATAGCCAACCCACTCTTATTGGACTATTGATCAT
CTTCCAGTTTATTTTTTTCACCTTACAATGAGGTTCTTTCTTTTTGCCTAACAGTCCTAAGCCGCAGATTTGAGTT
TCAAGCTGATGCATTTGCCAAGAACTTGGGAAGGCTAAAGACTTATATTCTGCTTTAATCAAACCTTAACAAAGA
TAACTTGGGATTCCCTGTTTCTGACTGGTTGTTCTCAATGTGGCATTATTCTCATCCTCCACTGCTAGAGAGACT
TCAAGCTTTGAAAACATATGAAGCAACACTAGAGATGTCCAGGATCTGTGACTGAAGACATTTCTGATTATTTCTGT
CCTGGCAGCATGTTCCAGCTCTTGATGTTTTTAAACTTTTTTTAGAAGAAAATTAAGTACAGAAAAGCCAGAT
TTAAATACATTTAATATGTCATTTTAAAAATGATTTTAATAATTCATTTCTTAAACACTGAATGAATTTTGAAG
CTTAATGTTTTTAAAGGCATAGTTTTATCTTTGACATCTAATTTACCATCAAGTTGTAAAATTTATTTGGAAAAAT
ACAGAACTCGTTTTATTTGTATACTTATATGGAATCTGCATGTGAGGTGTTTGAGGGCATATGTTTGAAAAGAGGG
AGCATCACACAGGAATCCTTTCTGTGAGGTGGAAACAGTGGTCCTGAATCATTGTGCTCACACCTAACTTGAAA
TCTGGTCTTACTTTTCATGCTGTTATGATTTTCACCTGGTGAATCAGTGTGTTTTAAATAAGAAAGGTAATAGTTGGTA
AGGCCAATGTTATTTAAATGAAAGTAGTTAGAAAAATGCTCTCCTATTCTACCAAATTTTTTAATTTCTTTCTTCC
CTTTCTTGCTACACAGTGATCAAGAGTTTCTCATAGTGCTTTGAAGTTAGAAATTATGTATAGGATATTTTAAAT
CATTGAGTTTTGTGGGGTTTTTTGTTTTGTTTTGTTTTCTTTTGTTTTTTGGAAAATCCGTGCTTTATCTTTTTTT
CCCACGTGGTAGATATGATCCCATTTGGAGGTAAATTGTAGCTTCTTCTCATTTCATGCAGTAAATAATACATCCTT
TCACTCAGCAGAGATGGCCATATTAAACACGTTTTGCTATGTTAAAAGTGGCAGAACAGGAAAGACGAATTAATA
ATAACATTTTTTAAAGCGACATAAGGATGAAATACTGATGAATCTCTGTGACATTACAGGGAAAAAATATAGTTT
TCTATCTCTTTCAAGGGCAGAAGAGTTTTTCATTTTTATTTTTGTAATTTATCTGTAAGTCATAAATATTACTTAA
TCAGGCCTGATTCTACTTTTGAAAATTACAGTTCTTGAAATGCAGATAATGTTTACTTTGAAAACAAATGTCATG
AATGATTTCCAGTTTTTAAAGCTATATGTTTCACTGCTTCATATCTCTGTCCACTTTCTGAATGAGAACTTATTT
TGTGCCTAGAGCTCTCACTCACTGATAATGCTTATTACCTTCTGGGCATTTATTCCAAAGTGGGATCAACTGTAC
GCCTTTGGTATCTGACCATAAAGTCTTTTGCTCCGCTGACATTTGGGTGATGTCTTCACATGGAAATATAATAAA
AATAAAAAATCTAGTTTAAAAA

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FIGURE 2266

MGMWASLDALWEMPAKKRIFGAVLLFSWTVYLWETFLAQRQRRIYKTTTHVPPELGQIMDSETFEKSRLYQLDKS
TFSFWGLYSETEGTLILLFGGIPYLWRLSGRFCGYAGFGPEYEITQSLVFLLLATLFSALTGLPWSLYNTFVIE
EKHGFNQQTGFFMKDAIKKFVVTQCILLPVSSLLLYIIKIGGDYFFIYAWLFTLVVSLVLVTIYADYIAPLFDK
FTPLPEGKLKEEIEVMAKSIDFPLTKVYVVEGSKRSSHSNAYFYGFFKNKRIVLFDTLLEEYSVLNKDIQEDSGM
EPRNEEEGNSEEIKAKVKNNKQGCKNEEVLAVLGHELGHWKLGHVKNIIISQMNSFLCFFLFAVLIGRKELFAA
FGFYDSQPTLIGLLIIFQFIFSPYNEVLSFCLTVLSRRFEFQADAFKKGKAKDLYSALIKLNKDNLGFPVSDW
LFSMWHYSHPPLLERLQALKTMKQH

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FIGURE 2267A

AGCGCATGGAGCCAGAGGAGGAGGATGAACTAGGCTCAGGGCGGGATGTGGATTCCAACCTCCAACGCGGACAGTG
AGAAATGGGTGGCAGGAGATGGTTTGGAAGAACAGGAATTTTCTATCAAGGAGGCAAACTTCACAGAGGGAAGTC
TGAAGCTAAAGATTACAGCCACAAAGCGGGCTAAGAAACCCCAAGAATTTGGAGAACTATATATGTCCACCTG
AGATCAAGATCACCATCAAGCAGTCTGGGGACCAGAAGGTGTCCCGTGCTGGAAAAAATAGCAAAGCCACGAAGG
AGGAAGAAAGAAGCCACTCCAAAAAGAAGCTCCTCACAGCCAGTGACCTTGACGCCAGTGACCTCAAAGGATTTTC
AGCCACAGGCTTACGAAAGGCCCCAGAAACATTCAACTCTCCATTATGACACGGGCTCCACAGGACTTCACCG
GTGACACCTTAAACCAAAGCACCAGCAAAAAAGCAGCAGCCAGAACCACATGGACTGGTCCACCAACTCTGACA
GCGGACCCGTCACTCAGAATTGCTTCATCAGTCCAGAGTCTGGCAGAGAACTGCAAGCACCAGCAAGATCCCCG
CTCTTGAGCCCGTGGCTTCCTTTGCAAAGGCCCAGGGTAAGAAAGGCAGTGCAAGGGAACACGTGGAGTCAGTTGT
CTAACAATAACAAAGATCTGCTCTTGGGAGGTGTGGCTCCATCCCCAAGCAGCCACAGCTCACCAGCCCCACCCA
GCAGCTCTGCTGAGTGCAACGGGCTTCAGCCCTTGGTGGATCAAGATGGAGGAGGTACAAAGGAGCCCCCAGAAC
CACCTACGGTGGGCAGCAAGAAAAAGTCCAGTAAAAAAGATGTGATAAGTCAGACCATAACCAACCCAGACCTGG
ATTGGGTCAAGAATGCCAGAAAGCATTGTGACAATACAGAAGGGAAAAGGGAAGGTTATTCGCGAGATAGTGCCC
AAGAGGCATCACCAGCCAGGCAGAACGTGAGTTCTGCCAGTAATCCCTGAAAATGACTCAAGTCATGTCCGGATTA
CTATCCCCATCAAGGCACCCCTCTCTGGATCCAACCAACCATAAGAGGAAAAAAGACAGTCCATTAAAGCGGTGG
TGGAAAAGATCATGCCAGAGAAAGCCTTGGCTTCTGGAATCACCATGAGCAGTGAAGTAGTTAACAGGATACTTT
CCAACCTCTGAGGGGAATAAGAAGGATCCCCGTGTCCCTAAGTTGAGTAAAATGATAGAGAATGAGTCCCCCTCAG
TTGGCCTTGAACTGGTGGAAATGCTGAGAAAAGTTATCCCAGGAGGTGTGTCTAAGCCGCGGAAGCCACCCATGG
TCATGACACCTCCAACGTGCACAGATCACTCTCCATCCAGAAAGCTGCCAGAAATCCAGCATCCAAAATTTGCTG
CAAAACGAAGGTGGACTTGACAGCAAAACCAAAACCTAGCACCATGCTTCGAGAGGCAGTTATGGCCACCTCTGATA
AACTGATGCTGGAGCCCCCGTCTGCATATCCCATCACCCCATCCAGCCCTCTCTACACCAACACAGACAGTCTTA
CTGTGATCACTCCAGTCAAAAAGAAGCGGGGACGACCAAGAAGCAGCCTTTGCTCACAGTCGAGACGATTTCATG
AGGGAACCTTCCACCAGCCCCGTCACTCCCATCAGCCGAGAGTTTCTTGGCACTAAGAAAAGAAAGCGACGACGCA
ATTTAGCGAAGTTGGCCAGCTAGTGCCGGGAGAGGACAAACCCATGAGCGAGATGAAATTTCAAGAAAGTTG
GAAAGCTCGGCGTGTGGATAAGAAGACCATCAAACTATCAATAAGATGAAGACACTCAAGAGGAAAAACATCT
TGAATCAGATCTTGCTCTGTTCAGCAGCGTTGCTCTGAAGGCAAAAGCTCCCCCAGAGACCAGCCCTGGGGCAG
CAGCCATTGAAAGCAAACTGGGCAAGCAGATTAATGTGAGCAAGAGGGGAACCATCTACATTGGCAAGAAGCGGG
GCAGGAAGCCAAGAGCAGAGCTGCCACCCCATCCGAAGAACCAAAACAGCCATCAAGCACCCAGGCCTGTTT
CTAGCCAGCCGGATGTTCCAGCCGTGCCTTCCAACCTTTCAGTCACTTGTGGCGTCTTCACCAGCAGCTATGCACC
CACTTTCAACACAGTTAGGTGGGTCCAATGGCAACCTGAGCCCTGCCAGCACTGAAACCAATTTTTCAGAGTTGA
AACTATGCCAAATCTCCAGCCCATCAGTGCTCTTCCAACCAAAACCAAAAGGGAATACACAGTGGAACTGGA
AGCTGTCTCCACCCAGACTGATGGCCAACTCCCTTTCACACCTGTGCGAGATTGGCTCCCTAAAGGAAATCACGC
TGTCCCTGTGAGCGAGTCCCACAGTGAGGAGACGATCCCAGCGACAGCGGCATTGGGACAGACAACAACAGCA
CTTCTGACCAAGCGGAGAAGAGCTCAGAATCCCGAAGGAGGTACTCTTTTGATTCTGCTCCCTGGACAACCCGG
AGGCCATTCCGTCCGACACCAGCACAAAGAACCGGCATGGCCACCGGCAAAAGCATCTCATTGTGGACAACCTTC
TGGCCACGAAAGCCTCAAGAAGCCAAAGCACAAAGAGGAAACGGAAAAGCCTGCAAAACCGCGATGACCTCCAGT
TTCTGGCAGACCTGGAGGAGCTAATCACCAGTTTCAAGTGTTTCAAGATCTCCCACCGGAGTTACACCTTCTACC
ACGAGAATCCATATCCAGCATTTTTCGGATTAATTTTGTACTATTACCCGGTGCCATATATCCAGTATGACC
CGTTGCTCTATCTTCGTAGGACTTCAGACTTGAAGTCAAGAAGAAGCGTGGTAGGCCTGCAAAAACCAATGACA
CCATGACAAAGGTGCCTTTTTTACAAGGGTTTCAAGTACCCTATTCCCAGTGGAAGTTACTATGCACCCTATGGAA
TGCTTTACACATCAATGCCTATGATGAACCTTGGTTATTACGGTCAGTACCCAGCTCCTTTGTACCTATCGCACA
CGCTTGAGCAGCTTCCCCATTATGAGGCCAACAGTGCCACCACCTCAGTTCCACACAACTCCACATAAAGA
TGTCCGGTGCAGCTAAGCATAAAGCCAAGCATGGAGTACACCTGCAGGGACCTGTTAGCATGGGCCTTGGTGACA
TGCAGCCTTCTCTGAACCTTCCAAGGTAGGCAGTGCCAGTCTGTCCAGTGGTTCGGCTCCATAAGAGGAAACACA
AACACAAGCATAAGCACAAGGAAGACCGGATCCTAGGGACCCATGACAACCTGAGTGGTCTTTTTTGAGGCAAAAG
CCACAGGCTTCTCCAGCCACATCCTGAGCGAGCGGCTGAGTAGCGCAGACAAAGAGCTCCCGCTGGTGAGTGAGA
AGAACAAGCATAAGGAGAAACAGAAGCACCAGCACAGCGAAGCCGGCCACAAAGCTTCTAAGAACAACCTTTGAGG
TGGACACCCCTGTCTACACTGTCACTTTCCGACGCCCAGCATTGGACACAGGCCAAGGAAAAAGGAGACTTGAGCA

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FIGURE 2267B

GTGAGCCTGTGGACTCATGCACGAAAAGATACTCTGGCAGTGGCGGGGATGGTGGCAGCACGAGATCGGAGAACC
TGGACGTGTTTCAGTGAAATGAACCCCTTCGAATGACAAGTGGGACAGTGACGTGAGTGGGAGTAAAAGGAGGAGCT
ATGAAGGCTTTGGAACGTACAGGGAAAAGGACATCCAAGCCCTTCAAGATGAACCGCAAGGAGAGAAGTTCTTATG
ACTCCTCCATGTCTCCAGGGATGCCAAGTCCCCACTTAAAGTGGACCAGACAGCAGTGCATAGTAAGAACGAAG
GCTCAGTGGCCACCATGATGACCAGGAAGAAGCCAGCCGAGTTGACAGTGTACAAATTCACCAGCCCCAGTGT
TATCTCTCCTTGCTGCATCTGCAGCAACGTGCGATGCAGTCGGCTCCTCCCTGAAGAAGAGGTTCAAGCGGCGGG
AGATCGAAGCCATCCAGTGCGAAGTGCGAAGATGTGCAACTACACCAAGATCCTGTCCACCAAGAAGAACCTGG
ACCAGTGAACAAGATCCTGAAGGCCAAGCGGCTGCAGAGACAATCAAAAACAGGCAACAACCTTCGTGAAGAAGA
GGCGCGGGCGTCCCAGGAAGCAGCCACCCAGTTCGATGAGGACTCCAGAGACCAAATGCCGGTGCTGGAAAAAT
GCATCGACCTGCCCAGCAAAAGAGGCCAGAAGCCCAGCCTGAGCCCGCTGGTGCTGGAGCCCGCCGCCAGCCAAG
ACACCATCATGGCCACCATCGAGGCGGTTCATCCACATGGCCCGGAGGCGCGCCCTGCCCGCCACCGCCGC
CGCCCTGCCGCCACCGCCGCCACACCCCTGCCCGCCGCCACCCCTCTACCCAAGACCCCCGAGGCGGAAAGA
GGAAACACAAACCGCAGGCCCCGCTCAGCCCCACAGCAGTCGCCCCGCAGCAGCCCTTCCCCAGGAAGAGG
AGGTGAAAGCCAAAAGGCAGAGGAAGTCCCGAGGGAGTGAGAGCGAGGTCCTTCCCTAGGGCGGGTCTGGGCGTC
TGCACCTGGGGCCTAGGGAAGTACACGTGGGAAGCGCAGTGAGCCGGGGCGGGGGCGGAATCCCCCGCTGCAGG
GACACCCACGCCCTTCTCTCCAGAAGCCGGGCAGGCAGAATCCGGCCAGACGACGGGGCTGAGCCATCAGGAGCT
CTTGGGAAAGCAAAGCAGGGAGACACCTTCAGAAGAAGCTTGCTGAGCTTCACCGCAGCTCCCACCACGCGCG
CTTCAGTACGGCTGGATCCTCCGCAGGCGAGCGGAAGGCCCCAGGAGGAGCAGGCTGGTGGCACTCTCCTGACC
TCACGCTGCCAAGGTGCGCCCTCGACTCCCGATTTCATTTGCTGGCCAGGAAAATCGAAAGGGAAACACCCCTCAA
TTAGGAAACATTCCAAGGGGAGAAAAGCTGCAAATTGCTCAACTGGCATTGCTGTAACCCGTTCCATTTAATTGG
TTTTTATTTCTTTTGATTTTCAAGCTCTGCTAAGCTTTGGGGTACCAACGTCATCTTCAGGTGACCTGAATCTTT
CCCTTAACCGTACAGTTTCTCGATGGAATTGTGTGATCAGAAGGTGGAATTCTAGTGATAGGCGACCTCAGACCC
GCATTCATGTTCTGTGTGCCTCTTCTATTGCACATACACTGATTTTTAGCATTGTCTATTCTATTTTCTTTG
CCCATTGTACTTCCATATATCTTTTCATTAACCTTACTTGCTGCCTTTTTTTTTTCTTGGTACACATTTAAATAAA
GTAATCCTTAACCTGTGCTGTAAAGTTCACCCCTGGCATGCTGTTCCAAGAACCTGGGTTTGAATCCCAATCGTT
GTGAAACATACTCAGTATTGATAAAACCTTTTTAATAAGTGATGCAGAGCAGCCAAGGATATGTTGACCCAGATG
TCAACCAGGCTATTTTTATACTTAAAACATGTGAGCAGAGCATAGGCAGAATAAAATGGTTTAAATACCCACAG
CAAATAGAGTAACTGACAAACCACCAAAAACCTGAAACCCAGACCCACCAGAAAGACAAGTGTCTAGCAATGCCT
TGGTACCTGATCTTTTTCATTCAAATAATTGTCATAGGTTGTTT

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FIGURE 2268

MEPEEEDELGSGRDVDSNSNADSEKQVAGDGLLEEQEF SIKANFTEGSLKLLKIQTTKRAKKPPKNLENYICPPEI
KITIKQSGDQKVS RAGKNSKATKEEERSHSHKKLLTASDLAASDLKGFQPOAYERPQKHSTLHYDTGLPQDFTGD
TLKPKHQKSSSQNHMDWSTNSDSGPVTQNCFI SPESGRE TASTSKIPALEPVASF AQAQGGKSAGNTWSQLSN
NNKDLLLGGVAPSPSSHSPAPPSSSAECNGLQPLVDQDGGGTKEPPEPPTVGSKKKSSKKDVISQTI PNPDLDW
VKNAQKAFDNTEGKREGYSADSAQEASPARQNVSSASNPENDSSHVRITIP IKA PSLDPTNHKRKKRQSIKAVVE
KIMPEKALASGITMSSEVVNRILSNSEGNKKDPRVFKLSKMIENESPSVGLETGGNAEKVIPGGVSKPRKPPMVM
TPPTCTDHSPSRKLPEIQHPKFAAKRRWTC SKPKPSTMLREAVMATSDKLMLEPPSAYPITPSSPLYTNTDSLTV
ITPVKKKRGRPKKQPLLTVETIHEGTSTSPVSPISREFFGTKKRKRRLAKLAQLVPGEDKPMSEMKFHKKVVGK
LGVLDKKTIKTINKMKTLLKRKNILNQILSCSSSVALKAKAPPETSPGAAAIESKLGKQINVSKRGTIYIGKKRGR
KPRAELPPPSEEPKTAIKHPRPVSSQPDVPAVPSNFQSLVASSPAAMHPLSTQLGGSNGNLSPASTETNFSELKT
MPNLQPI SALPTKTQKGIHSGTWKLSPPRLMANSPSHLCEIGSLKEITLSPVSESHSEETIPSDSGIGTDNNSTS
DQAEKSSESRRRYSFDFCSLDNPEAIPSDTSTKNRHGHRQKHLIVDNFLAHESLKKPKHKRKRKSLQNRDDLQFL
ADLEELITKFQVFRISHRSYTFYHENPYP SIFRINF DHYYVPVYIQYDPLLYLRRTSDLKSKKKRGRPAKTNDTM
TKVPFLQGF SYPIPSGSYYAPYGMFYTSMPMMNLGYYGQYPAPLYLSHTLGAASPFMRPTVPPPPQFHTNSHIKMS
GAAKHKAKHGVHLQGPVSMGLGDMQPSLNPPKVGSASLSSGRLHKKRKHKKHKKHKKEDRILGTHDNLSGLFAGKAT
GFSSHILSERLSSADKELPLVSEKNKHKEKQKHQHSEAGHKASKNNFEVDTLSTLSLSDAQHWTQAKEKGDLSSE
PVDSC TKRYSGSGDGGSTRSENLDVFSEMNPSNDKWDSDVSGSKRRSYEGFGTYREKDIQAFKMN RKERS SYDS
SMSPGMPSPHLKVDQTAVH SKNEGSVPTMMTRKKPAAVDSVTIPPAPVLSLLAASAATSDAVGSSLKKRFKRREI
EAIQCEVRKMCNYTKILSTKKNLDHVNKILKAKRLQRQSKTGNNFVKRRGRPRKQPTQFDEDSRDQMPVLEKCI
DLPSKRGQKPSLSPLVLEPAASQDTIMATIEAVIHMAREAPLPPPPPPPLPPPPPPPLPPPPPLPKTPRGGKRK
HKPQAPAQPPQQSPPQQPLPQEEEVKAKRQRKSRGSESEVLP

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FIGURE 2269

GCCGCTTTTTTTTTTCTCATCTGCCATTTGTGTGTCTTAGATGGGTTTTAATTGCATGAATGTGGCTAATGTG
GTTCTCAGAAATTGGTCAGTATGGCCCGACATAGCTTCTGCTCTGTCTTGCTGACTCAATACCTTTAGGATTTGT
ATCAGAGTTTGGATACTAGTGTTAGTGGTGGTGTCCACTACTTAATTGGGAGATAATGAAACCAATCATGGAT
GCTGTTTTTATTGGGCATGTCATCTAAGAGAGGAGAAATAGCTGGGTTTTGGGTCTAATTATGAATAAGGACTGA
AGAAAACGAGTTTATGGTAGGTAGACTAAAGTTTCACATCAGACTGTACCATTGTGATTTAGACCTATCTAA
TCAGAGCATATCATCTGGGCTACCTCAGGGTCACCACCCATGTATTGGGCTTAGTCAGGATTGACAGATACA
TCAGCTGGCCTGTCATATAAAACATACTGTCATTGAGCTTAAGCTCCGCTTGTTCTGAGGTTTCACCTCCAT
GTTGTTTCATTGGTGCAAAAGTGGATCTCTTAGTTGGTCACTTAATTCTTTCTTTTTCAGAAAGATAGTATGTTCA
GTATATTTGGTCACTCTTAGAACCTTCCTTCACATTGTTTTTATGGGACCCATGAATGGTTAGCCTTTCTT
TATTGTAGAAGGAAATAAATAGGAGTAAAAAGACCATTGTAGTAAATAAGTTCAAGGGGAACCTGGGACCAG
CACTGTTATGTACAAAAAATGGCAAATTCATAAACTCAAATTTAAAAATAATTTTAAATTAACAGTTAT
AAATTTTATATTTTATACAAATAGATTGCTTAGAATGGTTCTCAAGAATTATAAGAGAAATGAACACAGT
AAAAATTTTATAATTACTATACTTGTGTTTTGTTGGGGGCTGGGAAATGTATTTTACATTGTAGCCAATCA
TTTATATTTGTCAATTTAAATCTTATGGGTCTTTTTTTTTTATCTCTCTTGATGTCAGATTTTATAGTCTTTT
TAAATAAATCCATTTAATTAAACGTTAAAAA

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FIGURE 2270

MINFIFYTNRLLRMVLKNYKRNELTVQKFYNYTCLFEGGWEMYFYIVANHFIFVNLNLMGLFFFISLDVRFYSL
FK

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FIGURE 2271

GATTTTAGAAGAAAACCCCTTTTGTCAACAATTTTGTGTACATATTTGGCATTTCAGTTCTGTACGCATCTGCGG
GTTGCAGCCCACGCCGCTTACTCTCAGCGGATGCAGCTGCTCACTTGGGGGCACTGGCCTCTTAGGTTTAAACGA
TGTCAACAGTGTAGTTTAGAAAATGGCCCGTTAGTGGCTCTATTGCAATAATGTTAGGGACATTATATGATTTC
ACGCAGGTACACCATCTGGGCCTGAGGTAGCAGTGGGTCACTTTGATCCACTTTGCAGGACTTATTCTGTAACG
GTTTGTGGCCAAGTTTGGGAAGTGGTTGATTCTCTTTGCCCTTCATTTACCTTCCTCTTCGTTTACGGTTAGGA
CATCGCTGCTTGATCCTTACAATACTGTGCAACTGCAATGCAACGTTGGCCCTGCTTCAGGTGATCCGCGGGAGGG
GCCTCCACGCCAGCGCCGGGAAGGCTGCTGGGGCCTCCACACCTGCCCTCATCACGGCGGCGAGGCTACGACAATC
CGGCTGGGAGCATGACCTTGGCGTCTGTTCTGGGAGCACGGATGATAAGCTCTGGAAGCTGGCAGTGTGTAAAGC
ACTGGCAAGTTTGTACTGTATAAATGTCAAATACCAATGCTTTATATCGACGCGAAGTGTCTAACACAGCCGGG
CTTGGGGGCGAGTCAGGAGGAAGCTGGCCATCCGTGGAGGAGGGGCCGGTCTTGACTCCCGCAGGACTCCTCTGA
GGCAGGGCCTGAAGTCTGTACACGTGGTCCAGATTTGTCCTGTCTTTCTTCACACTGAGTTCTCTATATTTAT
TGAACATCTTGTCTTTTAAAGCCAGAGTAGTGAAACTGCGTCTCGGATGTCTGTCTTTTGCCTCGAAGCCACGA
TGGATCGCTGGTTTCCTCTGCAGCGCGAGGGCTCCGGCGACCAGAGGATTCTTCCCGGAAGGCATTCTTGCCGCG
CTCCCCGGGGCACCCCTCAATTGTGTACTACGTCTTGTTAGTGTGTATCCGTGCCACGTAGATGATGTCTGT
AACGTAGTTTGTGTTGAAATATGAGAATATGCGGCTTAAACTTTGATCTGTAAGGAGCGGGGCCGTGGCCGTTT
GAGCACGCTGTAGACACCGTTCTCATGTGCGGGGTGGGTTTGCAGAAGCTCCCTTAGTGATTTCATGTTTAA
CAGGCAGCATCCATTTCCAGAATTTCTGGCATTGATTATATTTGAAGCATACAGGAACTTCTCGTTTCCTC
GTTTAGCCCCACCCAGATCAGGTGAAAGGGCAGCTTTAATGGTGGTTTTATGGACCACATTATCAGAGAGCACT
GTGCAAGCCAAATGGTTCAATAATGAATGAAAATTCTGGGTGTAAAGAGTAAATATGCCCTGGCTCTTTCTACCA
ATGTTTGTCTCTGGTTGGAAAGAAACCAAGATTTAAGACGGGCTGCTCTTCCAGACTGGCTGTGCCTGCCTGTG
CCCAGCAACCTGTGCAGCCGGCAGTGTGCCTGGTGTACGCCAGGAGGCTGTGGCTGCTGTGGGCCCTCTGGAAT
TGTGCTCCTCACAAAGTTTCCCCAAAAGGTTCTTCTAAGCCTTTATTGTCCCTGGTAAATGTTTCCCGGCTGGGC
GCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTAAGGTCAGGAGTTTGAG
ATCAGCCTGCCCAACATGGTGAAACCTCGTCTCTACTAAAAATACACAACTTAGCCAGTCTTGTGGCGCACGCC
TGTAATCTCAGCTACTAGGGATGCTGAGGCAGGAGAATCGCTTGAACCCAAGAAAGAGGTGGAGGTTGCGGTGAG
CCAAGATTGCGCCACTGCACTCCAGCCTGGGCAAACAGAGGGAGACTCCATCGCCCCCCCCAACAAAAAAAAAAG
TTTCCCATACACTGGCCTGCCCCAAAACCCACTAACAATTTTAGCAAAACAGTCCAGGCCAAAGAGGAAGCATT
CATGTTCAATAAGAAACCCAGCCATTCCGCATGGCTGGTTCTGAGTGGCTCTGGTGATACTCTCCAGCCACCTG
CTGACATTGAGAACTCTCAGACCTCGGGACTGCTGTTGCGGTACCGTGTGTCTGACACCTGCCAGCAGCCCTTGC
TATCTGCGCGCAGGATGGGGGTGACTGCCAGACATTCCCGCTAGATAGGCTCTGATTTCGGGGCAGCCTTTCA
GATGCGGCAGACATACAACACCTGTACTTTAGAGTTTAAAGGAAAAAAATCAGAAGTGTGGTTAGATAGTAA
AACTTAGGATAACTTAGAAAGGCTAGTTTTAGCTTCCTTTGTGGCTCCCTGGTGCAAAACAATTAGCAGTTATG
CAATGGACCTGATTCTAGTTTATTCTAATTAAGAAGTGAGGCCGAGTTGACTTCGTTCTCTGAATACAATCTTGA
GTAAGTGGGAAAGTCTGAGTGAAAGGATGGCCTCATTCTCTTCTAATCTTGCTGGTTTCAAGATTAGAAAATGG
CATTATTTGATCTGAAATGTTTGAGAAGACACGAATAAAGTTACTTGGGCAGAAAAAAAAAAAAAAAAAAAA

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FIGURE 2272

MQRGPASGDPREGPPRQRREGCWGLHTCLITAARLRQSGWEHDLGVCSGSTDDKLWKLAVCKALASLLLLKCQIP
MLYIDAKCLTQPGLGAVRRKLAIRGGGAGPGLPQDSSEAGPEVCTRGPDLSSLFLHTEFSIFIEHLVLLSQSSVN
CVSDVCLLPRSHDGS LVSSAARGLRPEDSSRKAFLPRSPGHPSIVYYVLV

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FIGURE 2273

GCCGGCATTCAATTTAAGGCCTAAGGATGAAGGCGAGAAGAAATAAAAAACAGATCCCAAGCTTTCGCAAGTTAAT
AAAAACTAGTAAAGTCAAACCTTGAAAACAAGCTAAAAAATAAGCAGTTTAAACAACAAAGCACTCTCAAGAAGTA
CCGAAAAGAACAGAGGAAACTAAGGCAAGCTGTGAAAAGATGCTGTGTCTAAGAAACCCATTCCATTGGAGAACCC
AAAGGAAAAGCGACCAGGTAAAGGATTGAGAGGGAAGAAGAGGAAGAAGAAGGCCCTTCCTTTAGATATGAT
GGATGAAGATGACTTACAGTTAATGAAGGATTTAGGACAAAGAGTATCTTTTCTAACAAGAGATCTTTCTTCTAG
TGAGCCTGTTTCATGCGAAGAAACGGAAGCATGAACGCATTATAGATAAATATGAAAAAATACCAAGAAGTCTGCA
AACTGCACCAGAGAAGGAAGTGAATTCATTTACTTCCTATCAAAGATAAAAGTGGTATAATCCACAGACTAGGGA
GAAGCCAGTTACTGATAGTAACAAAGATGAAGAGGATCAAGAAGAAGAGAGGGAACCTTGAGGAAGAGATCATTGA
AGATCCTATTCAAGAGCTGACCATAGAAGAACATTTGATTGAGAGAAAGAAGAAATTACAGGAGAAGAAGATGCA
TATTGCAGCCTTGGCATCTGCCATATTATCAGATCCAGAAAATAATATTAATAAATTGAAAGAATTACGTTCTAT
GTTGATGGAACAAGATCCTGATGTGGCTGTTACTGTTGCGAAAGCTGGTAATTGTTTCTCTGATGGAGTTATTTAA
AGATATTACTCCTTCATATAAAATCCGGCCCCCTCACAGAAGCAGAAAAATCTACTAAGACCCGAAAAGAAACCCA
GAAGTTAAGAGAATTTGAAGAAGGCCTGGTTAGCCAATACAAGTTTTATTTGGAAAATCTGGAACAAATGGTTAA
AGATTGGAAGCAGAGGAAGCTGAAGAAAAGTAATGTAGTTTCTTAAAGGCATACAAAGGACTGGCAGAAGTCGC
TGTGAAGAGCTTGTGTGAGCTGTTGGTGGCACTACCTCATTTTAACTTTTACAACAACATCATCGTATTGATTGT
CCCTCTCATGAATGACATGTCAAAATTGATATCTGAAATGTGTTGTGAAGCTGTGAAGAACTCTTTAAGCAAGA
TAAATTAGGCCAGGCTTCTCTTGGTGTAATTAAAGTGATTTCTGGTTTTGTGAAGGGCAGAAATTACGAAGTTAG
GCCAGAGATGTTAAAAACATTTTTATGCCTAAGAATCAAGGAAGTAGAAGTGAAAAAGATACAGAAGACATTAA
TAAACCAAAAAATTTATGACTTTCAAAGAAAAGAGAAAATCTCTATCAAGAATGCAGAGAAAGTGGAAAGAAAGC
AGAAGAGAAACTAGAGCGAGAGCTTCGAGAGGCAGAAGCTTCAGAGAGTACTGAGAAAAAAGTAAACTGCACAC
AGAGACTCTGAATATTGTGTTTGTAACTTACCTTACAGAAATATTGAAGAAGGCCAGAGGTACCTCTCCTGCCAGC
AGTTCTAGAAGGTCTTGCCAAGTTTGCTCACCTTATAAATGTGGAATTTTTTGTATGATCTGTTAGTAGTTCTTCA
TACTCTCATTGAGTCTGGTGACCTAAGCTATCAAGAAAGTCTTCACTGTGTCCAGACTGCTTTTCATATTCTTTC
TGGACAAGGTGATGTTCTGAATATTGATCCATTGAAATTCTACACACATCTCTACAAAACACTGTTCAAATTACA
TGCAGGTGCTACCAATGAAGGTGTTGAGATTGTACTCCAGTGCCTTGATGTGCTAAGTAAAGCGCAGAAAGCA
AGTTTCTCAGCAGCGAGCTCTTGCCTTCATCAAACGCCTTTGTACCCTTGCTCTTCATGTTCTTCCAAATTCAAG
TATTGGCATTTTAGCAACTACCAGAATATTAATGCATACTTTCCCCAAAACAGATCTACTGCTTGACAGTGAATC
TCAGGGAAGTGGAGTTTTCTTCTGAACTGGATGAGCCTGAGTACTGCAATGCTCAGAACACTGCTCTGTGGGA
ACTGCATGCTCTGCGGAGGCATTATCATCCATAGTGCAGAGATTGTCAGCCACCTGATCGCTGGAGCACCTTC
TGAAGGCTCTGGAGCACTCAAACCAGAGTTGAGTCGAAGATCTGCTACTGAACTTTTGGAGGCATATAGCATGGC
AGAAATGACATTCAATCCTCCTGTTGAATCTTCAAACCCCAAAATAAAGGGTAAATTTTTACAAGGGGATTCAAT
TTTGAATGAAGATTTAAATCAGCTAATCAAAGATACTCCAGTGAAGTTGCTACTGAATCGCCTCTGGATTTCAC
GAAATATTTGAAAACATCACTACACTAGTAGAGGAATGAAGTCAGTGGAC

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FIGURE 2274

MKARRNKKQIP SFRKLIKTSKV KLENKLNKQFKQQSTLKKYRKEQRKL RQAVKDAVSKKPIPLENPKEKRP GKR
IEREEEEEEALPLDMMDEDDLQLMKDLGQRVSFLTRDLSSSEPVHAKKRKHERIIDKYEKIPRTLQTAP EKELI
HLLPIKDKSGIIPQTREKPVTD SNKDEEDQEEERELEEEI IEDPIQELTIEEHLIERKKKLQEKMMHIAALASAI
LSDPENNIKLLKELRSMLMEQDPDVAVTVRKL VIVSLMELFKDITPSYKIRPLTEAEKSTKTRKETQKLREFE EG
LVSQYKFYLENLEQMVKDWKQRKLKKSNNVSLKAYKGLAEVAVKSLCELLVALPHFNFHNNIIVLIVPLMNDMSK
LISEMCCEAVKKLFKQDKLGQASLGVIKVISGFVKGRNYEVRPEMLKTFLCLRIKEVEVKKD TEDINKPKKFM TF
KEKRKSLSRMQRKWKKAEEKLERELREAEASESTEKKLKLHTETLNIVFV TYFRILKKAQRSPLLP AVLEGLAKF
AHLINVEFFDDLLVVLHTLIESGDLSYQESLHCVQTAFHILSGQGDVLNIDPLKFYTHLYKTLFKLHAGATNEGV
EIVLQCLDVMLTKRRKQVSQQRALAFIKRLCTLALHVLPNSSIGILATTRILMH TFPKTDLLLDSESQGS GVF LP
ELDEPEYCNAQNTALWELHALRRHYHP IVQRFAAHLIAGAPSEGS GALKPELSRRSATELFEAYSMAEMTFNPPV
ESSNPKIKGKFLQGDSFLNEDLNQLIKRYSSEVATESPLDFTKYLK TSLH

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FIGURE 2275

ATGGCAGCCCGTCTGCTCCTCCTGGGCATCCTTCTCCTGCTGCTGCCCTGCCCGTCCCTGCCCCGTGCCACACA
GCCGCACGCTCAGAGTGCAAGCGCAGCCACAAGTTCGTGCCTGGTGCATGGCTGGCCGGGGAGGGTGTGGACGTG
ACCAAGCCTCCGCCGCTCGGGCTCCTTCCCAGTGGACACACAAAGGTTCTGCGGCCCGACGGCACCTGCACCCCTC
TGTGAAAATGCCCTACAGGAGGGCACCCCTCCAGCGCCTGCCTCTGGCGCTCACCAACTGGCGGGCCCCAGGGCTCT
GCCAGCGCCATGTAACCAGGGCCAAAGTCAGCTCCACTGAAGCTGTGGCCCCGGGATGCGGCTCGTAGCATC
AACGACTGGAAGGTCGGGCTGGACGTGACTCCTAAGCCACCAGCAATGTGCATGTGTCTGTGGCCGGCTCA
TCACAGGCAGCCAACTTTGCAGCCCAGAAGACCCACCAGGACCAGTACAGCTTCAGCACTGACACGGTGGAG
TCCCGCTTCTACAGTTTCCATGTGGTACACACTCCCCGCTGCACCCCTGACTTCAAGAGGGCCCTCGGGGACCTG
TCCACCACTTCAACGCCTCCACCCAGCCCGCTACCTCAGGCTTATCTCCAACCTACGGCACCCACTTCATCCGG
TGTGGAGCTGGGTGGCCGCATATCGGCCCTCACTGCCCTGCGCACCTGCGAGCTGGCCCTGGAAGGGCTCAG
TACGAGGTGGAGGACTGCCTGACTGTGAGGCCCAGGTCAACATAGGCATCCACGGCAGCATCTCTGCCGAA
TAAAGGCCTGTGAGGAGAAGAAGAAGACACAAGATGACGGCCTCCTTCCACCAAACCTACCGGGAGCGCCAC
TGAAGTGGTTGGCGGCCATCACACCTCCATTAACGACCTGCTGTTCCGGATCCAGGCCGGGCCCCGAGCAGTAC
TCAGCCTGGGTAAACTCCGTGCCCCGGCAGCCCTGGCCTGGTGGACTACACCCTGGAACCCCTGCACGTGCTGCTG
GACAGCCAGGACCCGCGCGGGGAGGCACTGAGGAGGGCCCTGAGTCAGTACCTGACGGACAGGGCTCGCTGGAGG
GACTGCAGCCGCGCGTGCCACCAGGGCGGCAGAAGAGCCCCGAGACCCATGCCAGTGTGTGTGCCATGGCTCA
GCGGTCACCACCCAGGACTGCTGCCCTCGGCAGAGGGGCTGGCCAGCTGGAGGTGACCTTCATCCAAGCATGG
AGCCTGTGGGGGGACTGGTTCACTGCCACGGATGCCTATGTGAAGCTCTTCTTTGGTGGCCAGGAGCTGAGGACG
AGCACCGTGTGGGACAATAACAACCCCATCTGGTCAGTGC GGCTGGATTTTGGGGATGTGCTCCTGGCCACAGGG
GGGCCCCGTAGGTTGCAGGTCTGGGATCAGGACTCTGGCAGGGACGATGACCTCCTTGGCACCTGTGATCAGGCT
CCCAAGTCTGGTTCCCATGAGGTGAGATGCAACCTGAATCATGGCCACCTAAAATTCCGCTATCATGCCAGGTGC
TTGCCCCACCTGGGAGGAGGCACCTGCCTGGACTATGTCCCCCAAATGCTTCTGGGGGAGCCTCCAGGAAACCGG
AGTGGGGCCGTGTGGTGA

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FIGURE 2276

MAARLLLLGILLLLLLPLPVPAPCHTAARSECKRSHKFVPGAWLAGEGVDVTSLRSGSFVDTQRFLRPDGTCTL
CENALQEGTLQRLPLALTNWRAQSGCQRHVTRAKVSSTEAVARDAARSIRNDWKVGLDVTPKPTSNVHVSVAGS
HSQAANFAAQKTHQDQYSFSTDVTECRFYSFHVVHTPPLHPDFKRALGDLPHHFNASTQPAYLRRLISNYGTHFIR
AVELGGRISALTALRTCELALEGLTDNEVEDCLTVEAQVNIGIHGSISAEAKACEEKKKKHKMTASFHQTYRERH
SEVVGGHHTSINDLLFGIQAGPEQYSAWVNSVPGSPGLVDYTTLEPLHVLLDSQDPRREALRRALSQYLTDRARWR
DCSRPCPPGRQKSPRDPCQCVCHGSAVTTQCCPRQRGLAQLEVTFIQAWSLWGDWFTATDAYVKLFFGGQELRT
STVWDNNNPIWSVRLDFGDVLLATGGPLRLQVWDQDSGRDDDLLGTCDQAPKSGSHEVRCNLNHGHLKFRYHARC
LPHLGGGTCLDYVPQMLLGEPPGNRSGAVW

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FIGURE 2277

CCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCCTGCAGAACGGCTGCCTAATTTACAGCAACCATGAGTACAAA
TGGTGATGATCATCAGGTCAAGGATAGTCTGGAGCAATTGAGATGTCACCTTACATGGGAGTTATCCATTGATGA
CGATGAAATGCCTGATTTAGAAAACAGAGTCTTGGATCAGATTGAATTCCTAGACACCAAATACAGTGTGGGAAT
ACACAACCTACTAGCCTATGTGAAACACCTGAAAGGCCAGAATGAGGAAGCCCTGAAGAGCTTAAAGAAGCTGA
AACTTAATGCAGGAAGAACATGACAACCAAGCAAATGTGAGGAGTCTGGTGACCTGGGGCAACTTTGCCTGGAT
GTATTACCACATGGGCAGACTGGCAGAAGCCCAGACTTACCTGGACAAGGTGGAGAACATTTGCAAGAAGCTTTC
AAATCCCTTCCGCTATAGAATGGAGTGTCCAGAAATAGACTGTGAGGAAGGATGGGCCTTGCTGAAGTGTGGAGG
AAAGAATTATGAACGGGCCAAGGCCTGCTTTGAAAAGGTGCTTGAAGTGGACCCTGAAAACCCCTGAATCCAGCGC
TGGGTATGCGATCTCTGCCTATCGCCTGGATGGCTTTAAATTAGCCACAAAAAATCACAAGCCATTTTCTTTGCT
TCCCCTAAGGCAGGCTGTCCGCTTAAATCCAGACAATGGATATATTAAGGTTCTCCTTGCCCTGAAGCTTCAGGA
TGAAGGACAGGAAGCTGAAGGAGAAAAGTACATTGAAGAAGCTCTAGCCAACATGTCCTCACAGACCTATGTCTT
TCGATATGCAGCCAAGTTTTACCGAAGAAAAGGCTCTGTGGATAAAGCTCTTGAGTTATTAAGGCTTGAAGGCTTGA
GGAAACACCCACTTCTGTCTTACTGCATCACCAGATAGGGCTTTGCTACAAGGCACAAATGATCCAAATCAAGGA
GGCTACAAAAGGGCAGCCTAGAGGGCAGAACAGAGAAAAGCTAGACAAAATGATAAGATCAGCCATATTTTCATTT
TGAATCTGCAGTGGAAAAAAGGCCACATTTGAGGTGGCTCATCTAGACCTGGCAAGAATGTATATAGAAGCAGG
CAATCACAGAAAAGCTGAAGAGAATTTTCAAAAATTGTTATGCATGAAACCAGTGGTAGAAGAAACAATGCAAGA
CATACATTTCTACTATGGTCGGTTTCAGGAATTTCAAAAGAAATCTGACGTCAATGCAATTATCCATTATTTAAA
AGCTATAAAAAATAGAACAGGCATCATTAAACAAGGGATAAAAGTATCAATTCTTTGAAGAAATTGGTTTTAAGGAA
ACTTCGGAGAAAGGCATTAGATCTGGAAAGCTTGAGCCTCCTTGGGTTTCGTCTATAAATTGGAAGGAAATATGAA
TGAAGCCCTGGAGTACTATGAGCGGGCCCTGAGACTGGCTGCTGACTTTGAGAACTCTGTGAGACAAGGTCCTTA
GGCACCCAGATATCAGCCACTTTACATTTTATTTTATGCTAACATTTACTAATCATCTTTTCTGCTTAC
TGTTTTCAGAAACATTATAATTCACTGTAATGATGTAATCTTGAATAATAAATCTGACAAAATATT

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FIGURE 2278

MSTNGDDHQVKDSLEQLRCHFTWELSIDDDEMPDLENRVLDQIEFLDTKYSGIHNLLAYVKHLKGQNEEALKSL
KEAENLMQEEHDNQANVRSLVTWGNFAWYYHMGRLAEAQTYLDKVENICKKLSNPFRYRMECPEIDCEEGWALL
KCGGKNYERAKACFEKVLEVDPENPESSAGYAISAYRLDGFKLATKNHKPFSLPLRQAVRLNPDNGYIKVLLAL
KLQDEGQEAEGEKYIEEALANMSSQTYVFRYAIFYRRKGSVDKALELLKKALQETPTSVLLHHQIGLCYKAQMI
QIKEATKGQPRGQNREKLDKMIRSAIFHFESAVEKKPTFEVAHLDLARMYIEAGNHRKAEENFQKLLCMKPVVEE
TMQDIHFYYGRFQEFQKKSDVNAIHYLKAIEQASLTRDKSINSLKKLVLRKLRRKALDLESLSLLGFVYKLE
GNMNEALEYYERALRLAADFENSVRQGP

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FIGURE 2279

CGGCTGAGAGGCAGCGAACTCATCTTTGCCAGTACAGGAGCTTGTGCCGTGGCCACAGCCCACAGCCCACAGCC
ATGGGCTGGGACCTGACGGTGAAGATGCTGGCGGGCAACGAATTCCAGGTGTCCCTGAGCAGCTCCATGTCGGTG
TCAGAGCTGAAGGCGCAGATCACCCAGAAGATTGGCGTGACGCCTTCCAGCAGCGTCTGGCTGTCCACCCGAGC
GGTGTGGCGCTGCAGGACAGGGTCCCCCTTGCCAGCCAGGGCCTGGGCCCTGGCAGCACGGTCCTGCTGGTGGTG
GACAAATGCGACGAACCTCTGAGCATCCTGGTGAGGAATAACAAGGGCCGCAGCAGCACCTACGAGGTCCGGCTG
ACGCAGACCGTGGCCACCTGAAGCAGCAAGTGAGCGGGCTGGAGGGTGTGCAGGACGACCTGTTCTGGCTGACC
TTCGAGGGGAAGCCCCTGGAGGACCAGCTCCCGCTGGGGGAGTACGGCCTCAAGCCCCTGAGCACCGTGTTTCATG
AATCTGCGCCTGCGGGGAGGCGGCACAGAGCCTGGCGGGCGGAGCTTAAGGCCTCCACCAGCATCCGAGCAGGAT
CAAGGGCCGAAATAAAGGCTGTTGTAAGAGAAT

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FIGURE 2280

MGWDLTVKMLAGNEFQVSLSSMSVSELKAQITQKIGVHAFQORLAVHPSGVALQDRVPLASQGLGPGSTVLLVV
DKCDEPLSILVRNNKGRSSTYEVRLTQTV AHLKQQVSGLEGVQDDLFWLTFEGKPLEDQLPLGEYGLKPLSTVFM
NLRLRGGGTEPGGRS

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FIGURE 2281

ATGTCGGATTTCGGAGGAGGAGAGCCAGGACCGGCAACTGAAAATCGTCGTGCTGGGGGACGGCACCTCCGGGAAG
ACCTCCTTAACCTACGTGTTTTGCTCAAGAACTTTTGGGAAACAGTACAAACAACTATAGGACTGGATTTCTTT
TTGAGAAGGATAACATTGCCAGGAACTTGAATGTTACCCTTCAAATTTGGGATATAGGAGGGCAGACAATAGGA
GGCAAAATGTTGGATAAATATATCTATGGAGCACAGGGAGTCCTCTTGGTATATGATATTACAAATTATCAAAGC
AGAGAATTTAGAAGATTGGTATACTGTGGTGAAGAAAGTGAGCGAGGAGTCAGAACTCAGCCACTGGTTGCC
CTAGGCAATAAAATTGATTGGAGCATATGCGAACAATAAAACCTGAAAAACACTTACGGTTTTGCCAGGAA
CTGGTTTTAGTAGCCACTTTGTCTCAGCCAAGACAGGAGACTCTGTCTTCCTGTGCTTTCAGAAAGTTGCTGCT
GAAATCCTTGGGATCAAATTAAACAAAGCAGAAATAGAACAGTCACAGCGTATTGTCAGGGCAGAAATAGTGAAG
CTCCGGAAGAAGAAAATCAACATACCACCTCTACTCAGAGTAGAATCTGTTTCAGTACAGTAGTCAGAGGGTGG
TAAGGCAGATATTGTAAACTACAACCAGGAACCTATGTCAAGGACTGTTAACCTCCTAGAAGCTCTATGTGTG
CTTCAGTGAGCGCATTTTTCC

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FIGURE 2282

MSDSEESQDRQLKIVVLGDGTSGKTSLTTCFAQETFGKQYKQTIGLDFFLRITLPGNLNVTLQIWDIGGQTIG
GKMLDKYIYGAQGVLLVYDITNYQSFENLEDWYTVVKVSEESQPLVALVGKNKIDLEHMRTIKPEKHLRFCQE
NGFSSHVFSAKTGDSVFLCFQKVAEILGIKLNKAEIEQSQRIVRAEIVKYPEEENQHTTSTQSRICSVQ

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FIGURE 2283

CGGGGGTTTTGATCTTCTTCCCCTTCTTTTCTTCCCCTTCTTCTTTTCTTCCCTCCCTCCCTCTCTCATTTCCTT
CTCCTTCTCCCTCAGTCTCCACATTCAACATTGACAAGTCCATTTCAGAAAAGCAAGCTGCTTCTGGTTGGGCCCCA
GACCTGCCTTGAGGAGCCTGTAGAGTTAAAAAATGAACCCACGGATATAGCAGATACCACCCTCGATGAAAGCA
TATACAGCAATTACTATCTGTATGAAAGTATCCCCAAGCCTTGACCAAAGAAGGCATCAAGGCATTGGGGAGC
TCTTCTGCCCCACTGTATTCTTGGTTTTTGTATTTGGTCTGCTTGGAATTCTGTGGTGGTTCTGGTCCTGT
TCAAATACAAGCGGCTCAGGTCCATGACTGATGTGTACCTGCTCAACCTTGCCATCTCGGATCTGCTCTTCGTGT
TTTCCCTCCCTTTTTGGGGCTACTATGCAGCAGACCAGTGGGTTTTTGGGCTAGGTCTGTGCAAGATGATTTCCT
GGATGTACTTGGTGGGCTTTTACAGTGGCATATTCTTTGTTCATGCTCATGAGCATTGATAGATACCTGGCGATAG
TGCACGCGGTGTTTTCTTGAGGGCAAGGACCTTGACTTATGGGGTCATCACCAGTTTGGCTACATGGTCAGTGG
CTGTGTTTCGCCTCCCTTCCTGGCTTTCTGTTCAGCACTTGTTTATACTGAGCGCAACCATACTACTGCAAAACCA
AGTACTCTCTCAACTCCACGACGTGGAAGGTTCTCAGCTCCCTGGAAATCAACATTCTCGGATTGGTGATCCCTT
TAGGGATCATGCTGTTTTGCTACTCCATGATCATCAGGACCTTGCAGCATTGTAAAAATGAGAAGAAGAACAAGG
CGGTGAAGATGATCTTTGCCGTGGTGGTCTCTTCTTGGGTTCTGGACACCTTACAACATAGTGCTCTTCCTAG
AGACCCTGGTGGAGCTAGAAGTCCTTCAGGACTGCACCTTTGAAAGATACTTGGACTATGCCATCCAGGCCACAG
AAACTCTGGCTTTTGTTCAGTGTGCCTTAATCCCATCATCTACTTTTTTCTGGGGGAGAAATTCGCAAGTACA
TCCTACAGCTCTTCAAAACCTGCAGGGGCCTTTTTGTGCTCTGCCAATACTGTGGGCTCCTCCAAATTTACTCTG
CTGACACCCCCAGCTCATCTTACACGCAGTCCACCATGGATCATGATCTTCATGATGCTCTGTAGGAAAAATGAA
ATGGTGAAATGCAGAGTCAATGAACTTTTCCACATTTCAGAGCTTACTTTAAATTTGGTATTTTATAGGTAAGAGAT
CCCTGAGCCAGTGTGAGGAGGAAGGCTTACCCACAGTGGAAAGACAGCTTCTCATCCTGCAGGCAGCTTTTTC
TCTCCCACTAGACAAGTCCAGCCTGGCAAGGGTTACCTGGGCTGAGGCATCCTTCCTCACACCAGGCTTGCCTG
CAGGCATGAGTCAGTCTGATGAGAACTCTGAGCAGTGCTTGAATGAAGTTGTAGGTAATATTGCAAGGCAAAGAC
TATTCCTTCTAACCTGAACTGATGGGTTTTCTCCAGAGGGAATTGCAGAGTACTGGCTGATGGAGTAAATCGCTA
CCTTTTGCTGTGGCAATGGGCCCCCG

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FIGURE 2284

MNPTDIADTTLDESIYSNYYLYESIPKPCTKEGIKAFGELFLPPLYSLVFVFGLLGNSVVVLVLFKYKRLRSMTD
VYLLNLAI SDLLFVFSLPFWGYAADQWVFGGLGCKMISWMYLVGFYSGIFFVMLMSIDRYLAIVHAVFSLRART
LTYGVITSLATWSVAVFASLPGEFSTCYTERNHTYCKTKYSLNSTTWKVLSSLEINILGLVIPLGIMLFCYSMI
IRTLQHCKNEKKNKAVKMIFAVVVLFLGFWTPYNIVLFLETLEVEVLQDCTFERYLDYAIQATETLAFVHCCLN
PIIYFFLGEKFRKYILQLFKTCRGLFVLCQYCGLLQIYSADTPSSSYTQSTMDHDLHDL

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FIGURE 2285

AGGCGCTAGAGGCGGGGGCGCCGGGAGGCGGGGCTTTGCTCCTGGGGTCTCGGCCTTGGCCGGCTGGACCTGAC
CCTAGGGCGGGCTTGCGCAGCTGTGCGGACGTGACTGCGTTTCAGCCGCGTCCGGGCGTGCTTCCAGACTTGCCCAA
GTTCCGGGTGCCCTAGCTGCCCCCTTTCAGCCGCTGGCCTACCCGGCCCGCGGGTGAGAAGGTTGCGACGGGAGGT
GGGTGGAACCTCGCCAGCGCCGGGACCGCGGATTGGCTGCCTCGGCTTTCTCTTTTCCCCGTGGGCTCCGGCGTGA
GGCGCTGAAGCGGCCGCGAGCCGGCGACCGGCCCTCACCGTCCGCCGGGTGCGCTCTGCTTTTGGCGTGAGGCG
TTGACCACGCCCATATGAATTGGAGCTCTCCGCCAGTAGGAGTTTCCGGAAGGAGTTTGAATTTTTGTGATTTTT
ATGCTTGTTTGGTCCGTGGAATATGTTGGGATTTATGTTTGCCCTCTGAACAAGTGCTTGCTCACATCGTAAATG
ACTTCTCTCCGAAACGCTAAATATTCTTTCCCGCAGGAGCTCATATCCTTATTTCCATGACAGATCTTAACGA
CAATATATGCAAAAGATATATAAAGATGATAACTAATATAGTTATACTGAGCCTGATCATTTCGATTTTCGTTAGC
TTTCTGGATTATATCAATGACTGCAAGCACCTATTATGGTAACTTACGACCTATTTCTCCGTGGCGTTGGCTGTT
TTCTGTTGTTGTTCTGTTCTGATCGTCTCTAATGGCCTTAAAAAGAAAAGTCTAGATCACAGTGGGGCTCTAGG
AGGGCTAGTCGTTGGATTTATCCTAACCATTGCAAATTTAGCTTTTTTACCTCTTTGCTGATGTTTTTCTTGTC
TTCTTCGAACTCACTAAATGGAAGGGAGAAGTGAAGAAGCGTCTAGATTCAGAATATAAGGAAGGTGGGCAAAG
GAATTGGGTTGAGGTGTTCTGTAATGGAGCTGTACCCACAGAACTGGCCCTGCTGTACATGATAGAAAATGGCCC
CGGGGAAATCCAGTCGATTTTTTCCAAGCAGTACTCCGCTTCTCGGATGTGTTTGTCTCTCTTGGCTGCACTGGC
CTGCTCTGCTGGAGACACATGGGCTTCAGAAGTTGGCCCAGTTCTGAGTAAAAGTTCTCCAAGACTGATAACAAC
CTGGGAGAAAAGTTCCAGTTGGTACCAATGGAGGAGTTACAGTGGTGGGCCTTGCTCTCCAGTCTCCTTGGTGGTAC
CTTTGTGGGCATTGCATACTTCTCTCACACAGCTGATTTTTGTGAATGATTTAGACATTTCTGCCCCGAGTGGCC
AATTATTGCATTTGGTGGTTTTAGCTGGATTACTAGGATCAATTGTGGACTCATACTTAGGGGCTACAATGCAGTA
TACTGGGTTGGATGAAAGCACTGGCATGGTGGTCAACAGCCCAACAAATAAGGCAAGGCACATAGCAGGGAAACC
CATTCTTGATAACAACGCAGTGAATCTGTTTTCTTCTGTTCTTATTGCCCCTCTTGCTCCCAACTGCTGCTTGGGG
TTTTTGGCCCAGGGGGTGAACCTTTATTTTCACTTCCACAGGTTGAAACTGGTGAGTCCAGCTAAATTTGCAATTCC
AACTTTTCATCCTAAGAATAATAACTGTAATGGCAAAGCGGAAATGCCAGTTTCTCTGTATTCCATTGAGATGGG
ATTTACATTTTTTCTCTCATCAACTCCCTGTAATAGCTAGCGTCTTCTAGTGAAAGAGAAGAATTCCTAGAAC
TTATGCATTTTTTCTGCTGAATGGAAGCTTGAGCAATGAAGCTATATTGTCCCTACATATTACTATATATTG
AACTGAAAGTTCTTACATAATCAATGTCAAGTTTGTCTTATTTTGTGTTTGTGTTTAAACCAGTGATAGGAAAT
AAAAGTGATGATATTTAAATAGTTCTCAGTTGAAGCAGAGAAATGCCACTGTGCTAGTTGCCCAAATGTTGTAT
CTATTTTAAATAGTTTAAAGCTGATGTGTATGGGAGCCTAAACAAGTGATAGTATCCTGAACTTCTCCCATTAATTG
CTATTCACAATTGGGAAAAGTGTTGGAGATTGGTTCTTAGTGAGTTTTGTGGCCTACTCCACATTTGTTCTTCTT
CCTCAGGGTTAGTGATGAAAAAAGTAAATATCTTTTTCATATGTCCATTAGAATGTATGAAAAAATCATTTTA
ACTAAAAGCAAAAGAATTTTATCTTATATCTAAAAAATATATAACTTACTATATGTTTCAGTTGCTCTCTGAACA
AAAATTATCTTCAATTTAATATGTGGAATGTGTTTTCTAGCTTTCTTTGAATTATGTATGGCAACCTGGTTTAGC
ACTGGCATCCTGAACAGTTAAGAGTCACTGGGAAATTATTGTATTTCTTTATAAATTTACTGTATATCAATTGC
TGGAAAATGCTATGATTTTTCTATTATTACCTTCTAAGTTGTATTCTCTCTTACACTGTAGCCTCAACTAAGGCA
ATTCTGCTATGTTTGTCTTCACTATGATTTACTGTGTGCCAAAGGAGTTTTGACAGGGTACAGAGTATTTTACT
AAAAGTATTTTTAAATGTTTCTCATGTGATTTCTGTACCTTCTTCTCCTGCCCCCTTTGCTTTTTTAAAGAAAC
TGGGGAAGGATTTATGAATACACCACCAGAGTGGAATGCTTAGAATTCTTTATTGGTGGCCCTACTATGG
TGATGATCTAGAACTGACTTACTTCAGGACAGAAGAAAAACAATCACACCCTTAACCTTTAAGCCAGTTAGATC
AGGGGGTTGCAACAATTGGGTAAACTTTGGGTATACATTGGAAGCACCAGGGCATGTTTGCTTTTTTTGTTTTAT
GTGTTTGTGTTTTTGGAGACAGAGTCTCACACTGTGGCCAGGCTGGACTCCAGCACAGTGGCATGATCTCAGCTCC
GCCTCCTGGGTTACGTTGATTCTCATGCCTCAGCCTCCCGGGTGGCTGGGATCACAGGCGTGCAACATCACGCC
GGCTAATTTTTGTATTTTTCAGTCGAGACCGGCCTGGCCAACGTGGTGAAACACCGTCTCTACTAAAAATACAAA
AATTAGGTGTGGTGGTGCCTGTATTCCCGGCCACTCGGGAGGCTGAGGCAGGAGAATCGCTGGAACCTGGG
ATGTGGAGGTTGCACTGAGCCAAGATTGCACCACTGTACTCCAGCCTGGGCAACAGAGGGAGACTCCATCTAGAC
TCCATCTCAAAAAAAAAAAAAAAAAA

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FIGURE 2286

MTDLNDNICKRYIKMITNIVILSLIICISLAFWIIISMTASTYYGNLRPI SPWRWLF SVVVPVLIVS NGLKKKSLD
HSGALGGLVVGFILTIANFSFFTSLLMFFLSSSKLTKWKGEVKKRLDSEYKEGGQRNWVQVFCNGAVPTLALLY
MIENGPGEIPVDFSKQYSASWMCLSLLAALACSAGDTWASEVGPVLSKSSPRLITTWEKVVPVGTNGGVTVVGLVS
SLLGGTFVGIAYFLTQLIFVNDLDISAPQWPI IAFGGLAGLLGSIVDSYLGATMQYTGLDESTGMVVNSPTNKAR
HIAGKPILDNNAVNLFSSVLIALLLPTAAWGFWPRG

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FIGURE 2287

CACAGGGACTGCGCTCCCTTGCCCTAGCGCTCCCGCGCTGCTGCTCCAGCCGCCCGGCAGCTCTGAGGATGGAG
AGGAGGGCGCGGAGCTCCTCCAGGGAGTCCCGCGGGCGAGGCGGCAGGACTCCGCACAAGGAGAACAAGAGGGCA
AAGGCCGAGAGGAGCGGGCGGGGGCCGCGGGCGCCAGGAGGCTGGGCCCCGAGCCGTCGGGCTCCGGACGGGCGGGG
ACCCCGGGGGAGCCCCGAGCGCCCGCCGCCACGGTGGTGGACGTGGATGAGGTCCGAGGCTCCGGCGAGGAGGGC
GAGGTGGTGGCGCTGTTGGAGAGCGAGCGGCCCGAGGAAGGTACCAAATCCTCCGGCTTAGGGGCCTGTGAG
CTTCTTGCTCCTCATTTCCTGCTCTTCATCATCATGACCTTCCCTTTTTCCATCTGGTTCTGCGTAAAGGTT
ACAAGAGTATGAAAGAGTAATTATATTCCGACTGGGACATCTGCTTCCTGGAAGAGCCAAAGGCCCTGGTCTT
TCTTTTTTTTGGCCTGCCTGGATACCTACCACAAGGTTGACCTTCGTCTCCAAACTCTGGAGATACCTTTTCAT
GATCGTGACCAAAGACATGTTTATAATGGAGATAGATGCCATTGCTACTACCGAATGGAAAATGCCTCTCTT
CTAAGCAGTCTTGCTCATGTATCTAAAGCTGTGCAATTCTTGTGCAAACCACTATGAAGCGTCTCCTAGCA
ATCGATCCCTCACTGAAATTCTTCTAGAGAGGAAGAGCATCGCCCAAGATGCAAAGGTTGCCTTGGATTCAAGT
GATGTTTGGGGAATCAAAGTGGAGAGAATAGAAATTAAAGATGTGAGGTTGCCAGCTGGGCTTCAGCACTCA
TGGCTGTGGAGGCTGAAGCGCAAAGACAAGCCAAAGTGC GGATGATTGCTGCAGAAGCGGAAAAGGCTGCTTCT
GAGTCCCTGAGGATGGCAGCTGAGATTCTGTGTCAGGCACCCCTGCTGCTGTTTACGCTTCGATACCTCCACACCCTT
CAGTCTCTGTCCACAGAGAAGCCTTCCACTGTGGTTTTACCTTTGCCATTTGACCTACTGAATTGCCTGTCTTCT
CCGAGCAACAGAACTCAGGGAAGCCTCCCTTCCCAAGTCTTCCAAACCTGTTGAGCCACTAAATCCTAAAAAG
AAAGACTCTCCCATGTTATAGGAAGGATGGGGCATAATGTGACTGTAAAGGGGCCTGCCATAGAAAAGTCACATC
CCTGAGGGAGACACTCTGTCTCATTCCCTGCCCTTCCTTTGGTTGCCATATGGAATGGCCATGGAATGCACGAA
GTCACAATGCACCATCCATGAGAAGACAGTGAAATGATGTAATGACAGAGAAGGCAGACAACATGTTTCCGTGAC
TCATCTAGTCAGAGCAATTATGGGAAACAGCTTTGGTCAACATTCTACTTTGGAAAGAATTTTGAGTCTAGATGT
GGTTAAATTTTGACTTCTGGGAACTTGGTTTCAATGATGTCCCTTTTCACTGTATGTCTCTGACCCCTTTGGCAAGGT
TGCCACAGCTCCACAGCCCTTCCCTACAAGCACCTATCATTGGGCTTGTACACTCTATTGCTCTTCTGTCCCGA
AGATGCAGTCTTCTCTCCAATGATACTACCAAGTCTTAGTTTTCTCAACCACACTCAATCTTTTTGCTCCACCC
TGAATTCCTCACACCTAACCTGATAGTTACCTAAAGTGACACTTAAATGTTTCAGAGTGAATGCAAAAAAGAGA
GATGTACTTGGAGTCGGATATACAATTTATCCCTAATTAAAGCATTAAAGG

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FIGURE 2288

MERRARSSSRESRGRGGRTPHKENKRAKAERSGGGRGRQEAGPEPSGSGRAGTPGEPRAPAATVVDVDEVRSGE
EGTEVVALLESERPEEGTKSSGLGACEWLLVLISLLFIIMTFPFSIWFCVKVVQEYERVIIIFRLGHLLPGRAKGP
GLFFFLPCLDTYHKVDLRLQTLEIPFHEIVTKDMFIMEIDAICYRMENASLLLSSIAHVSKAVQFLVQTTMKRL
LAHRSLTEILLERKSIAQDAKVALDSVTCIWGIKVERIEIKDVRLPAGLQHSLAVEAEAQRQAKVRMIAAEA
ASESLRMAAEILSGTPAAVQLRYLHTLQSLSTEKPSTVVLPLPFDLLNCLSSPSNRTQGS�PFPSKPEPLNP
KKKDSPML

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FIGURE 2289

ATGGATGGGGGAACCGGGCGGCGAGACGGCGGCAGGACGGCGGCAGGATCTGTGACCGGAATGGTGGTCGGCGGC
TTCGACAGTGGCTGATCGAGCAGATTGACAGTAGCATGTATCCAGGACTGATTTGGGAGAATGAGGAGAAGAGCA
TGTTCCGGATCCCTTGGAACACGCTGGCAAGCAAGATTATAATCAGGAAGTGGATGCCTCCATTTTTAAGGCCT
GGGCAGTTTTTAAAGGGAAGTTTTAAAGAAGGGGACAAAGCTGAACCAGCCACTTGGAAGACGAGGTTACGCTGTG
CTTTGAATAAGAGCCCAGATTTTGAGGAAGTGACGGACCGGTCCCAACTGGACATTTCCGAGCCATACAAAGTTT
ACCGAATTGTTCTGAGGAAGAGCAAAAATGCAAACTAGGCGTGGCAACTGCTGGCTGCGTGAATGAAGTTACAG
AGATGGAGTGGGTGCTCTGAAATCGACGAGCTGATCAAGGAGCCTTCTGTGGACGATTACATGGGGATGATCA
AAAGGAGCCCTTCCCCGCCGAGGCCTGTCGGAGTCAGCTCCTTCCAGACTGGTGGGCGCAGCAGCCCAGCACAG
GCGTGCCGCTGGTGACGGGGTACACCACCTACGACGCGCACCATTCAGCATTTCTCCAGATGGTGATCAGCTTCT
ACTATGGGGGCAAGCTGGTGGGCCAGGCCACCACCTGCCCCGAGGGCTGCCGCTGTCCCTGAGCCAGCCTG
GGCTGCCCCGCCACCAAGCTGTATGGGCCGAGGGCCTGGAGCTGGTGCCTTCCCGCCGGCCGACGCCATCCCCA
GCGAGCGACAGAGGCAGGTGACGCGGAAGCTGTTGCGGCACCTGGAGCGCGGGTGCTGCTGCACAGCAGCCGGC
AGGGCGTGTTCTGCAAGCGGCTGTGCCAGGGCCGCGTGTTCTGCAGCGGCAACGCCGTGGTGTGCAAAGGCAGGC
CCAACAAGCTGGAGCGTGATGAGGTGGTCCAGGTCTTCGACACCAGCCAGTTCTTCCGAGAGCTGCAGCAGTTCT
ATAACAGCCAGGGCCGGCTTCCTGACGGCAGGGTGGTGCTGTGCTTTGGGGAAGAGTTTCCGGATATGGCCCCCT
TGCCTCCAACTCATTCTCGTGAGATTGAGCAGCTGTATGTCCGGCAACTGGCAGAAGAGGCTGGGAAGAGCT
GTGGAGCCGGCTCTGTGATGCAGGCCCCGAGGAGCCGCCAGACCAGGTCTTCCGGATGTTTCCAGATATTT
GTGCCTCACACCAGAGATCATTTTTTCAGAGAAAACCAACAGATCACCGTCTAAGTGCCTCGCTTGGGCGCCCCAC
CCCGTCTGCGTCTGTCATCCATCTCCCTGTTACAGTGGCCCCGATCATGATTAAAGAATGTGGATCCCTCTGTCT
GGGGTGGGATGCCTTACTTTGCACTTAATTTAATAAGGGCATTCTCGGAGGAGTAGACGTTTAAATACGAAGTGGC
GCATAGCCCTGCCGAGATGTCGGTGATGGCCTGATGCG

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FIGURE 2290

MCDRNGGRRRLRQWLIEQIDSSMYPGLIWENEEKSMFRIPWKHAGKQDYNQEVDA
SIFKAWAVFKGKFKEGDKAEP
ATWKTRLRCALNKSPDFEEVTDRSQLDISEPYKVYRIVPEEEQKCKLGVATAGCVNEV
TEMECGRSEIDELIKEP
SVDDYMGMIKRSPSPPEACRSQLLPDWWAQQPSTGVPLVTGYTTYDAHHSASF
SQMVISFYGGKLVGQATTTCPE
GCRLSLSQPGLPGTKLYGPEGLELVRFPADAIPSERQRQVTRKLFHGLERGVLLHSS
RQGVFVKRLCQGRVFC
S
GNAVCKGRPNKLERDEVVQVFDTSQFFRELQQFYNSQGRLPDGRVVL
CFGEEFPDMAPLRSKLILVQIEQLYVR
QLAEEAGKSCGAGSVMQAPEEPPPDQVFRMFPDICASHQRSFFRENQITV

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FIGURE 2291

GGTGTACAGCAAGCTGTGATTCTTGGGAAAACTAAAAAGTTTTCTGGGACAACGGGGCCCCAGAGTGATGGCAG
ACAATGTCAGCCACTAACAACATAGCCCAGGCCCGGAAGCTGGTGGAACAGCTACGCATAGAAGCCGGGATTGAG
CGCATCAAGGTCTCCAAAGCGGCGTCTGACCTCATGAGCTACTGTGAGCAACATGCTCGGAACGACCCCTGCTG
GTCGGAGTCCCTGCCTCGGAGAACCCCTTTAAGGACAAGAAACCTTGTATTATTTTATAACTGTGTTCTCATATG
TTCTCTCTCTCTCTCTTTCTTTCTCTCTCTCTGTCTCTGTCTCTGTCTCAGGCAGGGCATCATTTCAGTAAT
TAGCTCAAACAAAACATCTCAAGTCCCCAAAACCTTTAATTCCAAAAGAAATCCCCCTCTACCCCGCCAAAAAA
GGCGTTCCACCGCCCGGATGGGGTAGAATGGACCTTGTAGGTGGAGATGAATTTTCAGGTCCGACCCCATGGCC
TTCTCAGTTTGGGCCAAAAGGGATGGAGGCTTTACGGCCACTTCCCGTTCGGAATAACTGAAATCCCCAGCGATG
GGGTAACAATTTTTTAAACTCTCGATTGCCGTTTCAATTGTGGACCGGCGCCGAGGGGGAAAGGGAGGTGACTT
CGCCCGGTGGCAATAGTTCCGGGAGAATTGGCCATTGGTAAAAAGACTTCATAGGGTCACTGGAATGCTTTGTGT
TGTTTTTAAGTAGAGGTAAAATTGAGATGGGGGGCGGGAGGTGACATCATGAAGTTTTTTGGAAATATCTCTTTA
TTTAAAAAATTGTTACTCCATACGGCTAAAAAAG

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FIGURE 2292

MSATNNIAQARKLVEQLRIEAGIERIKVSKAASDLMSYCEQHARNDPLLVGVPASENPFKDKKPCIIL

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FIGURE 2293

CGGTGCTAGCGACACGGGAGTGGCAAACGCATCCTCTTGCCGTTCCCGGTGTTTGGGCCTTGCCTGTGACGGTGG
GAAAAGAAAATGGCCTTGCTGTGCTACAACCGGGGCTGCGGTGAGCGCTTCGATCCTGAGACCAATTCCGACGAT
GCTTGCACATACCACCCAGGTGTTCCGGTCTTTACGATGCATTAAAGGGTTGGTCTTGCTGTAAGAGAAGAACA
ACTGATTTTTTCTGATTTCTTAAGCATTGTAGGCTGTACAAAAGGTAGACATAATAGTGAGAAGCCACCTGAGCCA
CTAAACCTGAAGTCAAGACTACTGAGAAGAAGGAGCTATGTGAATTAACCCAAATTTAGGAACACATCATT
AGCCCCCTAAGCCAGTAGAAGCAATAAAAAGACCAAGCCCAGATGAACCAATGACAAATTTGGAATTAATAATA
TGCCCTCCCTAAAACAAGCACTTGATAAACTTAACTGTGCATCAGGGAATGAAGAAAATAAGAAAGAAGAAGAC
AATGATGAAATTAAGATTGGGACCTCATGTAAGAATGGAGGGTGTTCAAAGACATACCAGGGTCTAGAGAGTCTA
GAGAAGTCTGTGTATATCATTCTGGAGTACCTATTTTCCATGAGGGGATGAAATACTGGAGCTGTTGTAGAAGA
AAACTTCTGATTTTAATACATTCTTAGCCCAAGAGGGCTGTACAAAAGGGAAACACATGTGGACTAAAAAGAT
TGGGAAAAAGTTGTTCCATGTAGACATGACTTGCATCAGACTGGAGGTGAAGTTACCATTTCAGTATATGCT
AAAACTCACTTCCAGAACTTAGCCGAGTAGAAGCAAATAGCACATTGTTAAATGTCATTATTGTATTGTAAGGA
GAGAAGGAATTTGATCAAAATGTGAAATTATGGGGTGTGATTGATGTAAAGCGAAGTTATGTAAGTATGACTGCA
ACAAAGATTGAAATCACTATGAGAAAAGCTGAACCGATGCAGTGGGCAAGCCTGAACTGCCTGCAGCTAAAAAG
CAGGAAAAACAAAAAGATGACACAACAGATTGAGTGGGAGATGGAAGGAAGGCTATTACATTATTTCCGAATTTT
TAATACTGTGTGAAGTGGTGGCTTGCTGCTGTAATCTTTTGTGTTGTTGTTGTTACTGAATGTGGCATTTCAG
GGTTAACATTAGGTTCTTAAAAGCCAAAGTCAGTTTGTCTTTTGTGCTCTCATCTTTCTTTTGTGTTATGTAA
GATTGATTATTCATTTCTCCCTACTGGTAGGAACCATAGTTGTGTCCTATACTTGAAGAGGCTGGAAAGTAGCCC
ATAACCATAATTGCAGTATTTCTTTGTATTTCTCTGTTAAGCAAAGAAATATTAAGGAACATTTTTTTTATGTTT
TTGTATTATTCCATAATTAGTAAAGCAAGATGAAATGTCAAATTTAATCAGTTTTTTCATGGATTTGTGTTCTT
ACAGTACTTGAAAATATTTAAGGAAGAGATGAAGCTCTGCAGTTTTTCTATGTGGGATGATTACTTTTTTAAGG
AGGATTAATTCTGAGGTAGTATAGTAACTAAAGGGGAATATATGAATTGTTTAACAAATTAGAATTTGTTTACAA
CTACTTGAATTTTTTAATTATGTCAAACTTACATTACTTGCCAAGCAGTATGATGTTATAGGAAACATAAATAA
GATTACAGAGGTATCAATTTGGTTAAAATTCACCATTTTATAAGACTAAGCAATAATCTTAACAACCTCTTTCCCT
GAATATTTAAATGTGTTTGTATGGTGTATGACTAATTGTTACTGATTTAGAGACTAAGCCCTCTTAAACCTTT
AGTTAAATATAAAAAGAAATTATATATATCTTGCCCTCCCTGATGGAAAACATATAAAATTGTAGACTTAAAGG
TTTGTGGAAATACATTAGGATATCAGAAAACATAATATATGGAGTTGCTTTATGACTATTACATGTTAAATAAAA
ATAGCTTAATTGTTAAAAA

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FIGURE 2294

MALLCYNRGCGQRFDPETNSDDACTYHPGVPVFHDALKGWSCCKRRTTDFSDFLSIVGCTKGRHNSEKPPPEVPKP
EVKTTEKKELCELKPKFQEHIIQAPKPVEAIKRPSDEPMTNLELKISASLKQALDKLKLSSGNEENKKEEDNDE
IKIGTSCKNGGCSKTYQGLESLLEEVCVYHSGVPIFHEGMKYWSCCRRKTSDFNTFLAQEGCTKGKHMWTKKDAGK
KVVPCRHDLHQTGGEVTISVYAKNSLPELSRVEANSTLLNVIIVFEGEKEFDQNVKLWGVIDVKRSYVTMTATKI
EITMRKAEPMQWASLELPAAKKQEKQKDDTTD

[illegible]

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FIGURE 2295B

CATATACCCAAAATTAACCTTATGCTCATATATTAGGATGTGAGAATATCATCTGTTTATGGACACATGAAACCTC
CTAATGACCTGGAATTGTTAGAATATTGACTTTTTATATGCAAAGTTTTTCAACCAAGTGGTTTGTCTAATATT
TAAACATGTACTGGCACAATTTGTGATGAAAATATTAGCACATTTGCAATAATGTTTCTCCATAACAGAGAATGT
TAATGGATACCAGAATTTTATTTTGTATTTATGTTTCATAGTACTTTTCCTCTTGTCTACTCCAGACAGTTATT
CATAAAGCATTGTGATAATTAAAAGGAAAACAGAAAAGGAAAAGTAGGCAAATGTGAAAATAGTTTCAATATAT
CTTATGATTTCTTAATGTAAATGTTTTGTTGAAGTATATGGCTATCATGACTAAGTGCTAGAATTTATAGTTAC
AGGCGGTGTCCTTTTAAATGTGGAAAGGCTTTTAAATATTTTAAACTGGACCTGTATTATCCTGAATACACTA
TTTTGAAAATTTTAAAGAAAAAAAAA

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FIGURE 2296

VRGVRAATAAAVAATAASGLSRREAGGRAGAAAAVVRPPGRKCGRCRRLANFPGRKRRRRRRKGLGATTGGCGEA
VSSLHPAPHSPSSVRPAGRRARRQRRGAGSAERPMSGAGEALAPGPVGPQVVAEAGGGQLGSTAQGKCDKDNTK
DITQATNSHFTHGEMQDQSIWGNPSDGELIRTQPQRLPQLQTSAQVPSGEEIGKIKNGHTGLSNNGNIHHGAKHG
SADNRKLSAPVSQKMRKIQSSLSVNSDISKSKVNAVFSQKTGSSPEDCCVHCILACLFCEFLTLCNIVLGQAS
CGICTSEACCCCGDEMDDCNCPCDMDCGIMDACCESSDCLEICMECCGICFPS

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FIGURE 2297A

ACTGCCGTGCCGGACCCCCGAGCCGGAGCCGAGCGCGCCGAGGCCGGGGCCATGGAGAAAGCGCGGCCGCTGTGG
GCCAACTCGCTACAGTTCGTGTTTCGCCTGCATCTCGTACGCCGTGGGCCTGGGCAACGTGTGGCGATTCCCCGTAC
CTGTGCCAGATGTACGGCGGAGGTAGTTTTCCTGGTCCCCTACATCATCATGCTTATCGTGGAGGGAATGCCGCTC
TTGTACCTGGAACCTGGCTGTGGGGCAGCGCATGCGGCAGGGCAGCATCGGCGCCTGGAGGACCATCAGCCCGTAC
CTCAGTGGTGTGCGGGTTCGCCAGCGTGGTGGTCTCTTTCTTCTCTCCATGTACTACAACGTCAACGCCTGG
GCCTTCTGGTACCTCTTCCACTCCTTCCAGGATCCCCTGCCGTGGTCTGTCTGCCCACTGAATGGTAACACACG
GGCTACGATGAGGAGTGCAGAGAAGGCGTCTCCACACAGTACTTCTGGTACAGGAAAACCTCAATATCTCGCCG
TCCCTCCAGGAGAACGGGGGTGTGCAGTGGGAGCCGGCGCTGTGCCTCCTCGCCTGGCTGGTGGTGTACCTG
TGCATCCTGCGTGGCACCAGTCCACTGGCAAGGTGGTGTATTTACGGCGTCACTGCCCTATTGCGTGCTCATC
ATCTACCTCATCAGGGGCCCTCAGCTCCACGGAGCCACCAATGGCCTCATGTACATGTTCACTCCCAAGATAGAG
CAGCTGGCCAACCCCAAGGCCTGGATCAATGCAGCCACCCAGATCTTCTTCTCACTTGGCCTGGGCTTCGGCAGC
CTGATCGCCTTCGCCAGCTACAATGAGCCATCCAACAACTGCCAGAAGCACGCCATCATCGTGTCCCTCATCAAC
AGCTTCACCTCCATATTTGCCAGCATTGTACCTTCTCCATCTATGGCTTCAAGGCCACCTTCAATTATGAAAAC
TGCTTGAAGAAGGTGAGTCTGCTGCTGACCAACACTTTTGACCTTGAAGATGGCTTTTTGACAGCCAGCAACCTG
GAGCAGGTGAAGGGCTACCTCGCATCTGCCTACCCAAGCAAATACAGCGAGATGTTCCCGCAAATCAAAAACCTGC
AGCTTGAATCGGAGCTAGACACGGCCGTCCAGGGCACTGGCCTGGCATTTCATCGTCTACACAGAGGCCATTAA
AACATGGAGGTGTCCAGCTGTGGTTCGGTGTCTTACTTCTTCATGCTGCTGATGCTGGGCATTGGGAGCATGCTG
GGGAACACAGCGGCCATCCTCACCCCTCTGACAGACAGCAAGATCATCTCCAGCCACCTGCCCAAGGAGGCCATC
TCAGGTCTGGTGTGCCTTGTCAACTGTGCCATTGGCATGGTGTTCACGATGGAGGCTGGGAACCTACTGGTTTGAC
ATATTCAACGACTACGCGGCCACACTGTCCCTGCTGCTCATCGTGTGGTGGAGACGATTGCCGTGTGCTACGTG
TACGGGCTGAGGAGATTTGAAAGTGACCTTAAGGCCATGACCGGCCGAGCTGTGAGCTGGTACTGGAAGGTGATG
TGGGCTGGCGTAAGCCCACTGCTGATTGTGACCTCTTTGTCTTCTACCTGAGCGACTACATCCTCACGGGGACC
CTGAAGTATCAAGCCTGGGACGCCTCCAGGGCCAGCTCGTGACCAAAGATTACCGGCCTATGCACTGGCTGTC
ATCGGGCTGCTTGTGGCCTCCTCCACCATGTGCATCCCCCTGGCGGCCCTGGGGACTTTTGTTCAGCGTCGCCTC
AAGAGGGGAGACGCAGACCCCGTGGCCTGGAGATGTGGGCTTCCAGCCGCTCACGGTTTTACAGATACTATTTAC
AGGCGGAAACTCCTCGGCTGCTTTTTCAAATGCTTAAGCCAGGAGTGCTCAGCCCATCAACTTCCTGAGTGTCTA
AAGAAGATGAGGAAGGTGTGCAGGAAGAAAACCTCCCTTGGGAGAACGCACACCCTCCCGTGGTGGCTGTTCCTCC
CTGTACCTGCCTCCTCATCATGGAAGGGGGTGGGCTATGAAAGCCGGTCTCAAAGATAACTGCATCCTTCATTC
CAGGAAAGCCCTAGAATTAGGGCACATTGCAAACCTGAAATATGACTATAATTCTTATGGGACCAAATTAAGCAA
TTTTTGTTTTTGGCTGAAGAGACACCAAAATATTAGAGGACAAATATTTTTAGATCCATTTAAGGAGTTTTGAAG
TGCCTAAGATGACCTATTTGTGAGTGGTGCAAAATTAATTCTCTTTTTTTGAGTTGTAGTGAATATGCAATTT
CTGTGTTCCCTTCCACCCTTTAAATCTTAGGATGACAAGTTATAAAGAAAGAAGATCTTTGTCTGGGACCCCCA
AAGGGATCCTTTCTTAAGGTCTCTGACAGTGGGTCCAGGACCAGACCTCTCTACAAAAAATTGCCCAACTACA
GTTTGCAACCCCAAACCACATTAGAAGTCTGTGCAGACATCCCTCCGTGGTGTGTGCTTGGTGCATTGGAAAAG
GAGTCAGGAGCCACTGTGAGGTGAGAATGAAAGTGGATCTCAGCTGGGCACGGTGGCTCACGCCTGTAATCCTAG
CACCTTGGGGGTCAAGGTGGGTGGATCACTTGAGGTGAGGAGTTTGAAGCCAGCCTGGCCAACATGGCGAAACCC
CATTTCTACTAAAAATACAAAAAATTAGCTGGGAGTGGTGGCATAGGCCTGTAATTCAGCTACTCTGGCTGCT
GAGGCACAAGAATCATTTGAACCTAGGAGGTGGCGGTTGCTGTGAGCCAAGATCATGCCACTCCACTCCAGTCTG
GGCGACAGAGCAAGACTCTGACTCAAAAAAAAAAAAAAGTGGCTCTGACTTTCCCATAGGCTTAATATTACATTT
GGACATCGTGGCCAACCTCTATCAAGACCACAAATACCACCTACAATTAATTTTAAATATTTCATCTGTACATAGT
TTTCTAAATGTATATAATTCAAACAGAGCATCTTGTAAGTGAAGACACACCATATCTATGATATCGCATTAGTC
CATGTGGGGAAAAGAAAGATCAGATTGTTACTGTGTCTGTGTAGAAAAGGAAGACATAAGAACTCCATTTTGAT
CTGTACTAAGAAAAATTGTTTCTGCTTTGAGATGTTGTTAGCCTATAACTTTAGCCCCAACTCTGTGCTCACAGA
AACATGCGCTGTAATGAATCAAAGTTTAATGGATTTAGGGCTGTGCAGGATGTGCCTTGTTAACAATATGTTTGC
AGGCTGTATGCTTGGTAGAAGTCATCGCCATTCTCCATTCTCGATTAAACAGGGACACAATGCACAGCAGAAAGC
TGCAGGGACCTCTGCCCAAGAAAGCCTGGGTATTGTCCAAGGTTTCCCCCCTAGAGACAGCCTGAGATATGGC
CTCATGGGAAGGGAAAGACCTGACTGTCCCCAGCCGACACCTGTAAAGGGTCGGTGTGAGGAGGAATAGTGA
AGGAGGGAGGCCTCTTTGCAGTTGAGATAAGAGGAAGGCTTCTGTCTCCTGCTTGTCCCTGGTAATGGAATGTCT

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FIGURE 2297B

CGGTGTAAAGCTGACCATTCCCATTCGTTCTATTCTGAGATAGGAGAAAACCGCCCTGTGGCTGGAGGTGAGATA
TGCTGGCAGCAATACTGCTCTGTTACTCCTTGCTACACTGAGATGTTTGGGTAAAGAGAAAACATAAATCTAGCCT
ACGTGCACATCTGGGCACAGTACCTTTCCCTTGAACCTTATTTCGTGATACAGATTCCCTTTGCTCACATGTTTCCCTG
CTGACCTTCTTCCCACCTGTTGCCCTGCTACACTCCCCTCGCTAAGACAGTAAAAATAATGATCAATAAATACTG
AAGAACTCAGAGGCCAGCGCCGGTGC GGTCCTCCACATGCTGAGCGCCGGTCCCTGGGCCCCACTGTTCTTTCTC
ACTTTGTCTCTGTGTCTTATTTCTTTCTCAAAAAAATTTTTCTTTTTTTAACTGCAATAAAGTAGGTCGTT
CCTAAAGTGAGCGAGTCCCTTCCTGCTCTAACGTCCAGTGCTTCCTTGAGATCATGGAATTCTGGAGAGTTT
CTGTGGATATATTTGCACAGATATCTTTGAAGACACAAACACTCACCTGGGACGTTGGCCGGAGATGTCTTTTAA
TTTGTGCTGTAAATTTCTTTACAGCAAAAATAGGCTTTAGAAAGGTCTTCTACTGTCTTCAGCAACCATCTC
TTTCCAGCTTCACCTGATTGTCCAGTTATCATACATTTGACTTTCAAATGTATGAACCAGCATGTACCCCATG
TTAATCTTATCTACCCCGTGGATTCAATCTTCTTATCAGAAGGTTCTTTTATGTCAAAAAACCTGCTGTCAA
TTGAAGAGCCGGCACACTCAATGGCAAACACAGCACCGAGTCTGCTCTGAATCCTGGAGGATCTGGCCCTCC
CAACCCCCACTCACAGTCACCGTCTTACAACCTCAGGGCCACCTGGGATCAGTCATCAGTCAGGGTGCGTAAG
CCTTGAATACCAGGTAGCCGCAGGAGTGAAAAGATAAATGTCCTAGATCATTACCTTATTCAGTGTCCCCACCTT
GCAGCGCATTCCAACCACCTGGGAGCATTTAAAACTCCAGATGCCACACCACACCCTGGGGCCACCCATCAGAC
CTTCTGGAAGCAAGACCTGGGCCTCCATGGCCCCAAAACTCCCTAGGTGATCCGATGTGCAGCCAAATTTGAGA
GGCCCCATTTAAAAAAGAAAGAACATGGGTGGTACATTGAGGAGTATTTACATTTTATAAAATGACTTAAAAATT
TGAAGGCATTTTGTAGCATTTTCAATTATATGGAAGAGTTACTTCTACGGAATAGTTTTTGCTCATGGAACCTCAA
ACAGATGAAGCACCACTGTTACAGAATAATGTGCTCCAGATGAAAATGTCTCGTTTCTGTGAATTTTCATGAAGAG
CAGAACATTTCTCAAGAATCCTCTTGAGCCAGTAATCAATCCTGTCTCAAAAAATGTTCTTTGCCATTTCTCTAGA
TACTGCACAAAAGTGGCCATGTGACATTTGTCCACCCACCCCTCCAATAAGCTGGAGCGACAAAGGGACATTCCA
TCCCTGTACCCTTAGTGGTAGCCATGACACGATGGCCAGATCATGGACTCCGGAAAGCTTTCTGTTTTTACTGGA
AACATAGCAAACCTTGATTTAGCTCCAAGAAATTGAGTAGGGAAATATTTGTTTTTTAGCAATTGTCATAGTAAA
TAAAACTCTAAGCAAATGTGTGTAC

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FIGURE 2298

MEKARPLWANS LQFVFACISYAVGLGNVWRFPYLCQMYGGGSFLVPYIIIMLIVEGMPLLYLELAVGQRM RQGSIG
AWRTISP YLSGVGVASVVVSFFLSMYYNVINAWAFWYLFHSFQDPLPWSVCPLNGNHTGYDEECEKASSTQYFWY
RKTLNISPSLQENGGVQWEPALCLLLAWLVVYLCILRGTESTGKV VYFTASLPYCVLI IYLRGLTLHGATNGLM
YMFTPKIEQLANPKAWINAATQIFFSLGLGFGSLIAFASYNEPSNNCQKHAIIVSLINSFTSIFASIVTFSIYGF
KATFNYENCLKKVSLLL TNTFDLEDGFLTASNLEQVKGYLASAYPSKYSEMFPQIKNCSLESELD TAVQGTGLAF
IVYTEAIKNMEVSQLWSVLYFFMLLM LGIGSMLGNTAAILTPLTDSKI ISSHLPKEAISGLVCLVNCAIGMVFTM
EAGNYWFDIFNDYAATLSLLLIVLVETI AVCYVYGLRRFESDLKAMTGRAVSWYWKVMWAGVSP LLIVSLFV FYL
SDYILTGT LKYQAWDASQGQLVTKDYPAYALAVIGLLVASSTMCIPLAALGTFVQRRLKRGDADPVA

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FIGURE 2299

GAGAGATGCTGCCGCTGCTGCTGCCGCTGCCCTGCTGTGGGCAGGGCCCTCGCTCAGGATGCAAGATTCCGGCT
GGAGATGCCAGAGTCCGTGACGGTGACGGAGGGTCTGTGCATCTTTGTGCACTGTTCCGGTCTTCTACCTCGAGTA
TGGCTGGAAAGATTCTACCCCTGCTTATGGCCACTGGTTCCGGGAAAGGGTCAGTGTAGACCAGGAGACTCCATG
GCCACAAACAACCTCAACTCAAAAAGTGCAGAAGGAGACCCAGGGCCGATTCCACCTCCTCGGTGATCCCTCAAGG
AACAACTGCTCCCTGAGCATCAGAGACGCCAGGAGGAGGGACAACGGTTCATACTTCTTTTGGGTGGCGAGAAGA
AGAACAAAATTTAGTTACAAATATTCCCCGCTCTCTGTGTATGTGACAGCCCTGACCCACAGGCCCGACATCCTC
ATCCCGGAGTTCCTAAAGTCTGGCCATCCAGCAACCTGACCTGCTCTGTGCCCTGGGTCTGTGAGCAGGGAACA
CCCCCATCTTCTCCTGGATGTCAGCTGCCCCACCTCCCTGGGCCCCAGGACCCTCCACTCCTCAGAGCTCAGC
ATCATCCCACGGCCTCAGGACCACGGCACCAACCTCATCTGTCAGGTGACGTTCCCCGGAGCTGGTGTGACCACG
GAGAGAACCATCCAGCTCAGTGTCTCCTGGAAATCAGGAACCGTGGAGGAGGTGGTTGTTTTGGCCGTGGGGGTA
GTGGCTGTGAAGATCCTGCTTCTCTGCCTTTGCCTCATCATCCTCAGTTCCACAAGAAGAAGGCGGTGAGGGCA
GTGGAGGTTGAGGAGAATGTATATGCTGTGATGGGTAAATCTCTCAGGCCTCCAGACTGTACTTCCAGATGTCTC
CTCATCCAGTTCCCTCCACAGTCTGAATGGCCATGTTTCTTCTTCAATTGCTGGAGAATGAAGTGCAAATGCCACTG
CCTGGACTGAAGGCCTTTCACGATCTGTCTTCTGCTGGACTCTGCTCCTGATCCCCCTTCTCCTTGATCACCAG
AAGTCTCCCTACACCCACCAGGCCAAGCCCTCTGTGATTCTGAGACTTTGCATGTGTAGTTACTTCTCCTGAAAT
GGCCTTCCTCCCCATTCTGCCAATCCAGGTCTTATCATCCTTCAGGTTGTCTTAAATGTCATCCAGGTGTGTG
TATTTTATGTAATCCTTGTATGATATTAAGCGGAGATGTGGCATTGTTCATTAAATTTGTAGACATATTCAGTA
ACCATACTGAATACATATAATGACTATGTGCCAGCATTTCGGTATGTGCAAGAAGTTCATCAATAGATATAGACT
CAAAGAGCTCTGTATCAAGCTGTTGTTCTGAAGAGCAGAAGGATAC

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FIGURE 2300

CAAGCTTATGCATGCGGCCGCTGAATGGAGGCCAACATGCCGAAGCGGAAGGAGCCCGGCAGGTCTCTCCGCATC
AAAGTCATCTCCATGGGCAACGCCGAAGTGGGGAAAAGCTGTATTATAAAGCGATACTGTGAGAAAAAGATTTCGTG
TCTAAATACCTGGCAACAATTGGAATTGACTATGGAGTCACAAAGGTACACGTCAGAGACAGAGAAATCAAAGTT
AACATCTTTGATATGGCTGGACATCCCTTCTTCTATGAGGTTTCGAAATGAGTTTTACAAAGGACACACAGGGTGTG
ATACTGGTCTATGATGTTGGGCAGAAAGACTCCTTTGACGCCCTTGATGCGTGGCTGGCAGAAATGAAGCAAGAG
CTTGGACCTCATGGAAACATGGAAAATATTATATTTGTAGTTTGTGCCAACAAGATTGATTGTACCAAACATCGC
TGTGTAGATGAAAGTGAAGGACGTCTTTGGGCTGAAAGCAAAGGGTTCCTGTACTTTGAAACTTCAGCACAAACT
GGAGAAGGCATTAATGAGATGTTCCAGACCTTTTATATATCCATAGTTGATTTATGTGAAAATGGCGGGAAACGC
CCTACCACCAATAGCAGTGCTAGTTTCACCAAAGAACAAGCAGATGCCATTCGCAGAATTCGAAATAGTAAAGAC
AGTTGGGACATGCTGGGAGTCAAACCTGGGGCTCAAGGGATGAAGTCAATAAAGCGTATCGGAAACTTGCTGTG
CTTCTTCACCCTGACAAATGTGTAGCACCTGGCAGTGAAGATGCCTTCAAAGCAGTTGTGAATGCTCGGACAGCC
CTCTGAAAAACATCAAGTAGAAAGTACAGAAAAAAGCCACATGTGGGACTCAAATGCAAACAGACTTTCCTTAG
AGGTGAAATAACCAACGTGGAGTTTTCTTCCCAGAATCTCACTGCTCTTTTCATTCATGTGTTGTCATTTGTAT
ATCAGTAATTCAGGTACCCATTTTCATAGACATTTTACTGAGAAATGACCTGCATTTGTATGAAGTGAAGTGAAGCG
TCACACCCTGTACTTCATTTTCATATTTCTAGATAATTCTGAATTTTTTCTCATTTCGTAGCTCTGTAATTATAG
TATCACTTAGACATTTCACTTGGGGAAATCCACAAGGTTCTTGGAGGGAGGGAAGAGAGGACAAGAGGACCCTTT
CACTTTTTCTTTTTTACGGAATTCATCATCAGAGAAGAAAAATAACAAAAATGGAAGCAAACAACATCAGAACCCC
TGTAAGTTTGGTGTGACCTTACAGACAAGTTGCTGCTTTTACAATGAGTTCCTTAGGTGGTATTTTAAACCATCG
ATCTATAATGATGACTCTTGGCAGCCCTTTGGGAGTTTGTAAAATGAGGTGATACAGTTCTGAATTGAGCATTCC
TTTATGATATTCACCTCTGTTCTTCTGTCAGCCACCAGTGGGAGAGACAAGCCAGTCTTAAGAGAAAAGGTGGT
GGCAGCCACAAATTCTAGGTACACTGGCTGCTGCCATCCTGTCCCTGGATCTGAGGCCTTTCCCTTGCCATAGA
AATGGTTGCTGGTAGCAGTAGAGAGCACTGTGCACCTGGGAATGAGGAATCAGGCCCAAGACAGAAGTACTTGG
AGGAGCCAGCTGCAGTAGTATCCGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGACAGGAGGATTGCTTAAGCCC
AGGAGCTCAAGTCCCACCTGGGCAACATAGTAAGATCTTGTCTCTTAAAAAAAAAAAAAAAAA

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FIGURE 2301

MEANMPKRKEPGRSLRIKVISMGNAEVGKSCI IKRYCEKRFVSKYLATIGIDYGVTKVHVDRDREIKVNIFDMAGH
PFFYEVRNEFYKDTQGVILVYDVGQKDSFDALDAWLAEMKQELGPHGNMENI IFVVCANKIDCTKHRCVDESEGR
LWAESKGFYFETSAQTGEGINEMFQTFYISIVDLCENGGRPTTNSSASFTKEQADAIRRIRNSKDSWDM LGVK
PGASRDEVNKAYRKLAVLLHPDKCVAPGSEDAFKAVVNARTALLKNIK

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FIGURE 2302A

ATAGTCACCAGAAGCTGGAAGAGTCAAAGGACACATTCTCCCCTCAAGCCCCAGTGGGAGCACGGCCCAGCTGGA
TTTTGGACTTCTGGCCTCCAGAAGTAGACAGGGCCTCACGGTGTACCCAGGGTGGAATACAGTGGTGTGATCAT
AGCTCACTGCAGCCTGGAATTCCTGGGCTCAAGCAACCCTGCCACCTCAGCCTTCCAAGTAGCTAGGACTACAGA
ACATCCATGATAGCAGTCTTCTGTAAATCGAACTTTTCAAGAATTCTCTGAAGGAACCAAGTAGGATATTCTTAC
ATCATGACTTAATGTGAATGCAAGAACAAGAAATAGGTTTTATCTCTAAATATAATGAAGGGCTGTGTGTAAACA
CTGACCCTGTCTCAATTCTAACAAGCATTTTAGACATGAGTTTACATCGGCAAATGGGTTTCAGATCGAGATCTTC
AGTCCTCTGCTTCATCTGTGAGCTTGCCCTCAGTCAAAAAGGCACCCAAAAAAGAAGAATTTCAATAGGCTCCC
TGTTTCGGAGGAAAAAAGATAACAAACGTAAATCAAGGGAGCTAAATGGCGGGGTGGATGGAATTGCAAGTATTG
AAAGTATACATTCTGAAATGTGTACTGATAAGAACTCCATTTTCTCTACAAATACCTCTTCTGACAATGGATTAA
CTTCCATCAGCAAACAAATTGGAGACTTCATAGAGTGGCCTTTGTGCCTTTTGCGGCATTCTAAAGACAGATTTC
CTGATATAATGACTTGTTCATCACAGATCTTGTGTGGATTGCTTACGACAATATTTAAGGATAGAAATCTCTGAAA
GCAGAGTTAATATTAGTTGCCCAGAATGTACTGAGCGGTTTAAATCCCCATGATATTGCTTGATATTAAGTGATG
ATGTCTTGATGGAAAAATACGAAGAATTTATGCTTAGACGGTGGCTTGTGTGAGATCCTGATTGTAGGTGGTGTG
CAGCTCCAGACTGTGGATATGCTGTGATAGCATTGGATGTGCCAGCTGTCCAAAATTAAGTTGTGGGCGAGAGG
GCTGTGGAACAGAGTTTGTCTACCCTGTAAACAGATTGGCACCCCAACCAGACCTGTGATGCTGCTCGACAAG
AGAGAGCCCAGAGCTTACGTTTGAGAACTATACGTTCTTCATCCATTAGTTATAGTCAAGAGTCTGGAGCAGCAG
CTGATGATATAAAGCCATGTCCACGATGTGCTGCTTATATAATAAAGATGAATGATGGGAGCTGCAATCACATGA
CATGTGCTGTTTGTGGTTGTGAGTTTGTGTGGTTGTGTATGAAAGAAATCTCAGATTTGCATTATCTAAGTCCAT
CAGGATGTACTTTTTGGGGGAAGAAACCCTGGAGCCGAAAGAAGAAAAATATTGTGGCAACTGGGAACACTGGTTG
GTGCTCCTGTGCGAATCGCTTTAATAGCTGGCATTGCTATTCTGCAATGATTATTGGCATTCTGTGTATGTGG
GCCGAAGATTCACAATCGCTATGAAGGCAAGGATGTTTCAAAGCACAAACGGAATTTGGCCATAGCAGGTGGTG
TAACGTTGTCTGTAATCGTGTCTCCAGTAGTAGCTGCAGTGAAGTATCGGTGTTTCTATTATGTTAGCTT
ATGTCTATGGCGTAGTTCCAATTTCTCTTTGTGCGAAGCGGAGGTTGTGGAGTCTCAGCAGGCAATGGAAAAGGAG
TTAGGATTGAATTTGATGATGAAATGATATAAATGTTGGTGGAACTAACACAGCTGTAGACACAACATCAGTAG
CAGAAGCAAGACACAACCCAAGCATAGGGGAGGGAAGTGTGGTGGGCTGACTGGCAGTTTGAGTGCAAGTGGA
GCCCATGGATCGAATAGGAGCCATCCGAGACAACCTGAGTGAAACGGCCAGCACCATGGCACTAGCTGGAGCCA
GTATAACGGGGAGTCTGTGAGGAAGTGCCATGGTAACTGTTTAAACAGGTTGGAAGTACAAGCAGATGTACAGA
AAGAACGGTACAGTCTAAGTGGAATCTGGCACAGTCAGCTTGGGAACAGTTAGTGATAATGCCAGCACCAAG
CAATGGCAGGATCCATTCTGAATTCCTACATCCATTGGACAAAGAAGGCAACAGTATGGAGGTGCAAGTAGATA
TTGAGTCAAAGCCATCCAAATTCAGGCACAACAGTGGAAGCAGTAGTGTGGATGATGGCAGTGCCACCCGAAGTT
ATGCTGGCGGTTTATCCAGTGGCTTGCTGAAAGGTAAATCTAGTGCCACCAAGTGGTCCAAAGAAGCAACAGCAG
GGAAAAATCAAAAAGTGGTAACTGAGGAAAAAGGGTAACATGAAGATAAATGAGACGAGAGAGGACATGGATG
CACAGTTGTTAGAACAACAAAGCACGAACCTCAAGTGAATTTGAGGCTCCATCCCTCAGTGACAGTATGCCTTCTG
TAGCAGATTCTCACTCTAGTCATTTTTCTGAATTTAGTTGTTCTGACCTAGAAAGCATGAAAACCTTCTGTAGTC
ATGGTTCCAGTGATTATCACACCCGCTTTGCTACTGTTAACATTCTTCTGAGGTAGAAAATGACCGTCTGGAAA
ATTCCCCACATCAGTGTAGCATTTCTGTGGTTACCCAACTGCTTCTGTTTCAAGATTTTACAGTTGAATCATA
TTGCTGAAGAACATGGTAACAATGGAATAAAACCTAATGTTGATTTATATTTTGGCGATGCACTAAAAGAAACAA
ATAACAACCACTCACATCAGACAATGGAATTTAAAGTTGCAATTCAGACTGAAATTTAGGCCCCATAAATGCTGCA
GAATAATTACCACTGTACAACCGTGTGTTGGAGCTGGTTGAACATACATGTGACTACTTAAGTTTCAGGTTACCAGC
AAAAGCCGGGTTTTCATTATCATAATGCAGATACATTTTCTGTGTTTCAAGCAAGGCATTGTGTGTATGTGGATCTT
AGTTACCAAACTATGAAGTGAAGGCTTTAAAGTGCATTATTTTAAAGGATAATAAATTTGAAGAGCAAAGCATGT
TTTGTGTGTTTGGCCAAAAACATTGCTTGAAGCACATACTTAGATAGAAATTGGTCTTAATTTATATAATCAATA
TAAATACTAATGCAATTCTACAGCATTCAAATGAAGAAAACCTTGAAGGCTTTAGGGATAAGTGGTTAGTGATATT
TTATTGAAACCACTAAAGAGATAAGTTTAAAGAACTGCATAGGTTACTCTCAGTATATGATACTCTGTAAACATT
TTGCTACCATTTGGATACTTAGACACTTTGAGCAAGATTGTGGCAGTTTTTGCACAACCTTTGAAATAGAAATACC
TGGTACTCTATCTGTTTATTGTTGATGCCATCTTAGAGGAAAAATGTAAAGGTAAGTAATTAAGCATATGACA
GCAACAAATAAGATACATAAACTACAAAATAAAGTCCCATTAGGTTATAAGTATTACAAAAATCCACCTTTCT

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FIGURE 2302B

CTAAGGGGAAGTTTGTACCCATTGATTCTTGGTGCCTTTGGGATCGACTGGGTTTTAATGGCCTAGTTATTTGA
GGATTTTGCTGTGTTGTTTTCCATGTCTTCTCTGGTCACCTTGGATTATATATAAAAATACAGGAAATAGATAAA
CATGAATGTGATTAATAATGCTGAAAAAGTATTAGCCTACCAAAGACACACTCAGGCTTTAGTGAATAACTTTAC
ATAACCTCAGTTTTTAAACACATGCATATCTTCTCCAACCATGAAATCAAAGCACGGTGCAGAACTTGTACCAAGT
A AAAAGGTCCATGTATGATTAGCATTATTTCTTTTGCTTTTGTTTTATGGACAATGTTTCAGCTGACATAAGCAG
CTTGGCCAAAATACTGCCTGTACTGTTAATTTCCCTGTATAATTCACTTAAATAAAAGCAGGTTAACCTCAATG
A AGCAGTTAAAATGTTCTATCTTATGTATTTCTTTTAAGTATTACCATTATGGTGCTACTGAGCGTTTTCTTTT
CGTAAAAGAAAAATGCCATGGGCTGCAGTCTTCTCCATCACTTTTCCCTACCAGGTCCATTAATATGCTTATA
CTAGTGCCAGTTATTTTATTTGATAATGCTTATGGTATTTGTATATTTGTTTGCATTCCAATTTGTTTAAAT
AGAGTGTGTAAACTGCATACGTTAAATAAATGTAAATACTAATGTACTGCTGCAAAAAAAAAAAAAAAAAAAAA
AAAAA

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FIGURE 2303

MQEQEIGFISKYNEGLCVNTDPVSILTSILDMSLHRQMGSDDRLQSSASSVSLPSVKKAPKKRRISIGSLFRRKK
DNKRKSRELNGGVDGIASIESIHSEMCTDKNSIFSTNTSSDNLTSISKQIGDFIECPCLLRHSHKDRFPDIMTC
HHRSCVDCLRQYLRIEISESRVNISPECTERFNPHDIRLILSDDVLMKEYEEFMLRRWLVAADPCRWCPAPDCG
YAVIAFGCASCPLTCGREGCGTEFCYHCKQIWHPNQTCDAARQERAQSLRLRTIRSSSISYSQESGAAADDIKP
CPRCAAYIIKMNDGSCNHMTCAVCGCEFCWLCMKEISDLHYLSPSGCTFWGKKPWSRKKILWQLGTLVGAPVGI
ALIAGIAIPAMIIGIPVYVGRKIHNRYEKDVSKHKRNLAAGGVTL SVIVSPVVAAVTVGIGVPIMLAYVYGVV
PISLCRSGGCGVSAGNGKGVRIEFDDENDINVGGTNTAVDTTSVAEARHNPSIGEGSVGGTLGSLASGSHMDRI
GAIRDNLSETASTMALAGASITGSLSGSAMVNCFNRLVQADVQKERYSLSGESGTVSLGTVSDNASTKAMAGSI
LNSYIPLDKEGNSMEVQVDIESKPSKFRHNSGSSSVDDGSATRSYAGGSSSGLPEGKSSATKWSKEATAGKKS
GKLRKKGNMKINETREDMDAQLLEQQSTNSSEFEAPSLSDSMPSVADSHSHFSEFSCSDLESMTSCSHGSSDY
HTRFATVNILPEVENDRENSPHQCSISVVTQTASCSEVSQNLNHIAEEHGNNGIKPNVDLYFGDALKETNNHSH
QTMELKVAIQTEI

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FIGURE 2304

GGCTCTGGGCATCACCAGCGGCCCCAGGGAAAAAGAAAGAAATGGGAAACAGCATGAAATCCACCCCTGCGCCTG
CCGAGAGGGCCCCTGCCCAACCCGGAGGGACTGGATAGCGACTTCCTTGCCGTGCTAAGTGACTACCCGTCTCCTG
ACATCAGCCCCCGATATTCCGCCGAGGGGAGAACTGCGTGTGATTCTGATGAAGGGGGCTGGTGAAAAGCTA
TTTCTCTTAGCACTGGTTCGAGAGAGTTACATCCCTGGAATATGTGTGGCCAGAGTTTACCATGGCTGGCTGTTTG
AGGGCCTGGGCAGAGACAAGGCCGAGGAGCTGCTGCAGCTGCCAGACACAAAGGTCGGCTCCTTCATGATCAGAG
AGAGTGAGACCAAGAAAGGGTTTTACTCACTGTCGGTGAGACACAGGCAGGTAAAGCATTACCGCATTTTCCGTC
TGCCGAACAACTGGTACTACATTTCCCCGAGGCTCACCTTCCAGTGCCTGGAGGACCTGGTGAACCACTATTCTG
AGGTGGCTGATGGCCTGTGCTGTGTGCTCACCACGCCCTGCCTGACACAAAGCACGGCTGCCCCAGCAGTGAGGG
CCTCCAGCTCACCTGTCACTTGGCTCAGAAGACTGTGGACTGGAGGAGAGTGTCCAGACTGCAGGAGGACCCCG
AGGGAACAGAGAACCCGCTTGCGGTAGACGAGTCCCTTTTTCAGCTATGGCCTTCGAGAGAGCATTGCCTCTTACC
TGTCCCTGACCAGTGAGGACAACACCTCCTTTGATCGAAAGAAGAAAAGCATCTCCCTGATGTATGGTGGCAGCA
AGAGAAAGAGCTCATTTCTCTCATCACCACCTTACTTTGAGGACTAGCCAAGAACAGACACAATGGTTTCATGCCC
AAAAGGAACAGAAAGTTCCAACATATTGCCTGGGATCTTGCGAAAAGCGAGGTTCCCTGATCCCTGGGAGCCTCACG
TATTTTAGAAGCCAAGAGAAGCCACATGGAGACTCAAATTGCGATCTTCTCTATCCACATCATGACCAAGGAAC
CCCTCCCTGGTGTCTGATCAGGGCTGTGGCATCACAAAACATTGGATCATGACATGTGCGGGCGATGCTTGAAAA
GCCCAGCATGTATGTATGCACACATTGTGTGTGTGGGAAGGACAAAGCCACTCTCACAGAAAGGGCACCAGGAC
TGCTCTCCAAGGAACCTGGACCTGTCCAGACAGTTACACTCCAAGGTCATTGGAGAGAACTTCTGTATGGGCAAGC
CTGAGAGGGGAGAGGAAACAAAAGCTGTGTCTTGGCAGAAAGGTCCTGGGTTTGAGATGGGTGCCCTGAATGGAAC
ACTTTAACTAATCCATAGGGACTTCTGGTATGCTTTTCTCTCTTTTTAAAGGAACCTTCGTGACACTAAACATTAG
CCCAAAGGACTTCTTAGCCTTCAATTGGGAGATACCTTTGGTCTGCTCCTGCACCAAAGCCATATGGGTGGAAGT
CAGTTGGCCTCCCTGGTTCTGCAGAGGGCCAGAAGAATGAGAGAGAGGAAGACTGCTGGCAGGGAAATCGAGGAG
GCGAGACTAGAACTGCACCAGCTTCCCTGATGTCTGCAGCCATGGCTTTGCAGCGCAAACAGAACTTCTCTGGGA
TGCTGGGATTCTTGCTGTATGAATGCATCAAGTATTCAATTTATTGCCGAATAGGCATTGCATTAAGTCCTCTG
TTAGGTGTCAGGCAAGCCAAAAAAGATGCTAAGTCCTAACCCCAACAGAAAGTGTTCACAGTGTAGA
CGGGAAAAAATGTATAAACAAATGTGTAAAAAGAGAAATCAGCTCATGGCTTAGGATGGAATTAGAGACAGGTGA
GGGACACTCAGGAGCTCATTTTCCAGCTGCTCTTCAGAGTGAAGGGCTGGCTGGATCGGGTAGGTAAGAATAGC
TGGATTTTTTAGAAAAGAAATGGATACAGTCTAAAGAATTAACCTACCCGGTACTTTATTCTAAGAAGGGTCTGG
CATCCATATGAGGAAAAATGCTCAGCTCCAGGAAAGATGGGGAGTCCAAGTGGATTAATGATGTCATGCATAATT
TTAAGAGACAAGGGAGAAAACACAATGTATAGCCAGAGAAGGAGAAGCTCCCATCAAATCCTACTAGGAAGAGA
GTGGGCTGCAGATGAATCTGTGACTCATGTTTCCCTGTTTCAAAGGGATCCTGGGGAAGGAGGGGAACATGCTTG
CAGTATCTCTCCCTGTCTGTCTGCTCACATAAGCATTCCGTCCATCTAAGCTCATCGTCTACTGGTATGTGTAT
GTGCAGTTACACAGTTTCTGTATCATAAATCCTAGTGTGTTTATACAAGGAGACATCTGTGGTTTCCCCAACCG
TTCCAAAAGGCTATTTCAAAGGAACCGCCACGTATGAGAAATGAATGTAACACTGTGGACATTGACTTCCCGC
ATAAGGCAGGGTGACCCCTGAACTCCAGATGTTTGACAGTATCTTATGTGTTGTTTTCCGTTGTGACGAATGT
GATTGGAACATTTGGGGAGCACCCAGAGGGATTTTTCAGTGGGAAGCATTACACTTTGCTAAATCATGTATTTAT
TCCTGATTAAACAAACCTAATAAATATTTAACCCTTGGC

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FIGURE 2305

MGNSMKSTPAPAERPLPNPEGLDSDFLAVLSDYSPDISPPIFRERGEKLRVISDEGGWWKAISLSTGRESYIPGI
CVARVYHGWLFEGLGRDKAEELLQLPDTKVGSFMIRESETKKGFYSLSVRHRQVKHYRIFRLPNNWYYISPRLTF
QCLEDLVNHYSEVADGLCCVLTTPCLTQSTAAPAVRASSSPVTLRQKTVDWRRVSRLQEDPEGTENPLGVDESLE
SYGLRESIASYLSLTSEDNTSFDRKKKSISLMYGGSKRKSSFFSSPPYFED

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FIGURE 2306A

GCGCGCCTGTCGCGGTGGTGGGTGCAGGACTGGACCCACGGGCCCCATTGTGCGCCCGCCCGCGGCAGCCAGGACC
ATGTGGGTGAACCCGGAGGAGGTGTTGCTGGCCAACGCGCTGTGGATCACCGAGAGGGCCAACCCATACTTTCATC
CTGCAGCGGAGGAAGGGCCACGCCGGCGATGGAGGCGGCGCGGCGGACTGGCGGGCCTGCTGGTGGGTACCCTT
GATGTTGTGTTGGACTCCAGCGCCCGGGTCGCTCCTTACCGAATCTTGTACCAGACTCCAGACTCCCTGGTCTAC
TGGACCATCGCCTGTGGTGGTTCAGGAAAGAAATCACTGAACACTGGGAATGGCTTGAGCAAAATCTCTTGCAG
ACACTCTCCATCTTTGAAAATGAGAATGATATCACCACATTTGTGAGAGGAAAAATACAGGGCATCATTGCAGAA
TACAACAAAATCAATGATGTAAAGGAAGATGATGACACGGAGAAGTTTAAAGAAGCCATTGTGAAATTTTCATAGG
CTGTTTGGGATGCCAGAGGAAGAGAACTCGTCAACTATTACTCTTGCAGCTATTGGAAGGGGAAGGTCCCCCGT
CAGGGTTGGATGTACCTCAGCATTAAACCACCTTTGCTTTTATTCTTTTCTTATGGGAAGGGAAGCGAAACTGGTC
ATCCGGTGGGTAGACATCACTCAGCTTGAGAAGAATGCCACCCTGCTTCTGCCTGATGTGATCAAAGTGAGCACA
CGGTCCAGTGAGCATTTCTTCTCTGTATTCCCTCAACATCAACGAGACCTTCAAGTTAATGGAGCAGCTTGCCAAC
ATAGCCATGAGGCAACTCTTAGACAATGAGGGATTGAAACAAGATCGATCCCTGCCCAAACCTCAAAAGGAAATCT
CCTAAAAAAGTGCTGCTCTAAAAACGTGATCTTGATGCCAGGGCAAAGAGTGAGAGATACCGTGCACTTTTCCGG
CTGCCCAAAGATGAAAAATTAGATGGCCACACAGACTGCACTCTCTGGACTCCATTTAACAAAATGCACATTTTG
GGGCAGATGTTTGTGTCCACAAATTACATCTGTTTTACCAGCAAGGAGGAGAACTTATGTAGCCTCATTATCCCG
CTCCGTGAGGTGACAATTGTGGAAAAGGCAGACAGCTCCAGTGTGCTCCCCAGTCCCTTATCCATCAGCAGCCGA
AACAGGATGACCTTCTTATTGCCAACCTTGAAAGATAGAGACTTTCTAGTGAGAGGATCTCAGATTTCCCTGCAA
CAGACTACTTCCAAAATATATTCTGACAAGGAGTTTGAGGAAGTTACAACAGTTCAGATGATGAGGTGTACTCT
CGACCCAGCAGCCTCGTCTCCTCCAGCCCCCAGAGAAGCACGAGCTCTGATGCTGATGGAGAGCGCCAGTTTAAAC
CTAAATGGCAACAGCGTCCCCACAGCCACACAGACCCTGATGACCATGTATCGGCGGCGGTCTCCCAGGAGTTC
AACCCGAAATTGGCCAAAGAGTTTCTGAAAGAGCAAGCCTGGAAGATTCACTTTGCTGAGTATGGGCAAGGGATC
TGCATGTACCGCACAGAGAAAACGCGGGAGCTGGTGTGGAAGGGCATCCCGGAGAGCATGCGTGGGGAGCTCTGG
CTGCTGCTGTGAGGTGCCATCAATGAGAAGGCCACACATCCTGGGTACTATGAAGACCTAGTGGAGAAGTCCATG
GGGAAGTATAATCTCGCCACGGAGGAGATTGAGAGGGATTTACACCGCTCCCTTCCAGAACACCCAGCTTTTCAG
AATGAAATGGGCATTGCTGCACTAAGGAGAGTCTTAACAGCTTATGCTTTTCGAAATCCCAACATAGGGTATTGC
CAGGCCATGAATATTGTCACTTCAGTGCTGCTGCTTTATGCCAAAGAGGAGGAAGCTTTCTGGCTGCTTGTGGCT
TTGTGTGAGCGCATGCTCCAGATTACTACAACACCAGAGTTGTGGGTGCACTGGTGGACCAAGGTGTCTTTGAG
GAGCTAGCACGAGACTACGTCCCACAGCTGTACGACTGCATGCAAGACCTGGGCGTGATTTCCACCATCTCCCTG
TCTTGGTTTCTCAGACTATTTCTCAGTGTGATGCCTTTTGAGAGTGAGTTGTGGTTGTTGACTGTTTTCTTCTAT
GAAGGAATTAAAGTGATATTCCAGTTGGCCCTAGCTGTGCTGGATGCAATGTGGACAACTGTTGAAGTGAAG
GATGATGGGGAGGCCATGACCGTTTTTGGGAAGGTATTAGACAGTGTGACCAATAAAGACAGCACACTGCCTCCC
ATTCTCACCTCCACTCCTTGCTCAGCGATGATGTGGAACCTTACCCTGAGGTAGACATCTTTAGACTCATCAGA
ACTTCTACGAGAAATTCGGAACATATCCGGGCAGATTGATTGAACAGATGAGATTCAAACAGAGACTGAAAGTG
ATCCAGACGCTGGAGGATACTACGAAACGCAACGTGGTACGAACCATTGTGACAGAAACTTCCTTTACCATTGAT
GAGCTGGAAGAACTTTATGCTCTTTTCAAGGCAGAACATCTCACCAGCTGCTACTGGGGCGGGAGCAGCAACGCG
CTGGACCGGCATGACCCAGCCTGCCCTACCTGGAACAGTATCGCATTGACTTCGAGCAGTTCAAGGGAATGTTT
GCTCTTCTCTTTTCTTGGGCATGTGGAACCTCACTCTGACGTTCTGGCCTCCCGCTTGTTCCAGTTATTAGATGAA
AATGGAGACTCTTTGATTAACTTCCGGGAGTTTGTCTCTGGGCTAAGTGCTGCATGCCATGGGGACCTCACAGAG
AAGCTCAAACCTCCTGTACAAAATGCACGCTTTCCTGAGCCATCCTCTGATCAAGATGAACCAGATTCTGCTTTT
GAAGCAACTCAGTACTTCTTTGAAGATATTACCCAGAAATGTACACATGTTGTTGGATTGGATAGCAGAAGCAAA
CAGGGTGCAGATGATGGCTTTGTACGGTGAGCCTAAAGCCAGACAAAGGGAAGAGAGCAAAATCCCAAGAAAAT
CGTAATTATTTGAGACTGTGGACTCCAGAAAATAAATCTAAGTCAAAGAATGCAAAGGATTTACCCAAATTAAT
CAGGGGCAGTTCATTGAACTGTGTAAGACAATGTATAACATGTTTCAGCGAAGACCCCAATGAGCAGGAGCTGTAC
CATGCCACGGCAGCAGTGACCAGCTCCTGCTGGAGATTGGGGAGGTGGGCAAGTTGTTTCGTGGCCAGCCTGCA
AAGGAGGGCGGGAGCGGAGGAGTGGGCCGCTGCTGCCACCAGGGCATCCCAGGCGTGCTCTTCCCCAAGAAAGGG
CCAGGCCAGCCTTACGTGGTGGAGTCTGTTGAGCCCCCTGCCGGCCAGCCTGGCCCCGACAGCGAGGAACACTCC
CTTGAGGACAAATGGAGGACATCAAGCTGGAGGACTCCTCGCCCCGGGACAACGGGGCCTGCTCCTCCATGCTG
ATCTCTGACGACGACACCAAGGACGACAGCTCCATGTCTCTATACTCGGTGCTGAGTGCCGGCTCCCACGAGGAG

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FIGURE 2306B

GACAAGCTGCACTGCGAGGACATCGGAGAGGACACGGTCCTGGTGCGGAGCGGCCAGGGCACGGCGGCACTGCCC
CGGAGCACCAGCCTGGACCGGGACTGGGCCATCACCTTCGAGCAGTTCCTGGCCTCCCTCTTAAGTGAAGCCTGCC
CTGGTCAAGTACTTTGACAAGCCCGTGTGCATGATGGCCAGGATTACCAGTGCAAAAAACATCCGGATGATGGGC
AAGCCCCTCACCTCGGCCAGTGACTATGAAATCTCGGCCATGTCCGGCTGACACGGGCGCCTTCCCGGGGAGTG
GGAGGAGAGGGAGGGGAGGGATTTTTATGTTCTTCTGTGTTGAGTTTTTCTTTCTTTCTTTTAAATTAAATAT
TTATTAGTACCTGGCTTGAAGCCTAGTGTTCATTAATGTAATTCAATGAAAACCTGTTGGAGAAATATTTAAACA
CCTCAATGTAGGTACATTACACTCTTGTGCGGGGAGGGGATTTACCAGAATACAGTTTATTTTCGTGAATTCTAA
AAAACAAAAGATGAATCTGTCAGTGATATGTGTGATTATAACTTATTAATCTTGCTGTTGAGCTGTATACATG
GTTTAAAAAATAGTACTGTTTAATGCTAAGTAAGGCAGCAGTCATTTGTGTATTTCAGGCTTTTTTAAATAAAATTA
GAGCTGTAAGGAAAATGAAAAGCCACAAATGCAAGACTGTTCTTAAATGGAAGGCATAGTCAGCGAGGGTAAATC
CTATACCACTTTAGGAAGTATTAATAATATTTTTAAGATTTGAAATATATTTTCATAGAAGTCCTCTATTCAAAT
CATATTCCACAGATGTTCCCTTCAAAGGGAAAACATTTGGGGTTCTAAACAGTTATGAAAGTAAGTGATTTTTA
CATGATTCCAGAATAACACTTGTATTGACCAATTTAGACAGATACCAGACCAATTTTGCATTTAAGAAATTGTTT
TGATTATTTACGTCAACTCATTAGAATTCAGTGAAAAGTAACAGTCTTTTGTACAGAGAATCTGAAAGTAGCAG
CAAAGACAGAGGGCTCATGACAGGTTTTTGCTTTTGCTTTTGCTTTTGTGTTTTGAAAGAGTAAAGTACTGATGCT
TCTGATACTGGATGTTTAGCTTCTTACTGCAAAAACATAAGTAAAACAGTCAACTTTACCATTTCGGTATTCTCC
ATAGATTGAAGAAATTTATACCACATATCGCATATGACCATCTTTCCATCAAATCAATGTAGAGATAATGTAAAC
TGAAAAAAAATCTGCAAGATAATGTAAGTGAATGTTTTAAAAACAGAACTTGTCACCTTTATATAAAAGAATAGTA
TGCTCTATTTCCCTGAATGGATGTGGAAATGAAAGCTAGCGCACCTGCACTTTGAATTCTTGCTTCTTTTTTATTA
CTGTTATGATTTTGCTTTTTACAGATGTTGGACGATTTTTTCTTCTGATTGTTGAATTCATAATCATGGTCTCAT
TTCTTTTGCTTCTTTGGAATATTTCTTTCAACACATTCCTTTATTTTATTATACATTGTGTCCTTTTTTTAGCTA
TTGCTGCTGTTGTTTTTTATTCTATTTACAGGATGATTTTTTAACTGTCAAATGAAGTAGTGTTAACCTCAAATA
GGCTAAATGTGAACAAATAAAATACAGCAAATACTC

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FIGURE 2307

NLCSLIIPLEVTIVEKADSSSVLPSPLSISTRNRMFLFANLKDRDFLVQRISDFLQOTTSKIYSDKEFAGSYN
SSDDEVYSRPSSLVSSSPQRSTSSDADGERQFNLNGNSVPTATQTLMTMYRRRSPEEFNPKLAKEFLKEQAWKIH
FAEYQGICMYRTEKTRELVLKGIPESMRGELWLLLSGAINKATHPGYYEDLVEKSMGKYNLATEEIERDLHRS
LPEHPAFQONEMGIAALRRVLTAYAFRNPNI GYCQAMNIVTSVLLLYAKEEEAFWLLVALCERMLPDYYNTRVVGA
LQGVFEELARDYVPQLYDCMQDLGVISTISLSWFLTLFLSVMPFESAVVVVDCFFYEGIKVIFQLALAVLDAN
LLNCKDDGEAMTVLGRYLD SVTNKDSTLPPIPHLHSLLSDDVEPYPEVDIFRLIRTSYEKFGTIRADLIEQM
AORLKVIQTLEDTTKRNVRTIVTETSFTIDELEELYALFKAHLTSCYWGGSSNALDRHDPSPYLEQYRID
FEQPKGMFALLFPWACGTHSDVLASRLFQLLDENGDSLINFREFVSGLSAACHGDLTEKLKLLYKMHVLPEPSSD
PDSAFEATQYFFEDITPECTHVVG LDSRSKQGADGFTVSLKPDKGKRANSQENRNYLRLWTPENKSKSKN
LPLKLNQGFIELCKTMYNMFSEDPNEQELYHATAAVTSLLEIGEVGKLFVAQPAKEGGSGGSGPSCHQGIP
PPKKGPGQPYVVESVEPLPASLAPDSEEHS LGQMEDIKLEDSSPRDNGACSSMLISDDDTKDDSSMSSYSV
AGSHEEDKLHCEDIGEDTVLVRSGQGTAA LPRSTSLDRDWAITFEQFLASLLTEPALVKYFDKPVCMMARITS
ANIRMMGKPLTSASDYEISAMSG

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FIGURE 2308

ACCAACTAGAACTCCAATATAGTCTTCTGTTTTATGTCAATGCATTGCAATCAGATTCAGAATCCTAACAG
GTAAATTGGAGTCTACGAAAATTTATAATAATTGCTTCATGGACTCTGAGCTATAGTCTATATCTTAGTTTTT
CAAACATTTTGACTATTTTGACCAAGCCAGCTTGCAGTACAGAAAAAGTGAAAAATGTTTCTCCTTCTGAATGC
ATTCTTACCACCTTGATTCTTCTGTTTCTACTATCCATATAAATACTTTTCTGACCCTTTGTTAGACAAGGAA
AAGTTTCTTTGTTATTTGTTTGTAAATGTAAGGAATGAGACAGGCCAAACAGTGAAGATAAACAATAGATC

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FIGURE 2309

AGAGGGAAAGCGAGAGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGGCGTCCACGGATTACAG
TACCTATAGCCAAGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCCAGCCCCTCAAGGATATGCACAGAC
CACCCAGGCATATGGGCAACAAAGCTATGGAACCTATGGACAGCCCCTGATGTCAGCTATACCCAGGCTCAGAC
CACTGCAACCTATGGGCAGACCGCCTATGCAACTTCTTATGGACAGCCTCCCCTGGTTATACTACTCCAACTGC
CCCCCAGGCATACAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACCACTGCTACAGTCACCAC
CACCCAGGCCTCCTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGC
AGCCACTGCACCTACAAGACCGCAGGATGGAAACAAGCCCCTGAGACTAGTCAACCTCAATCTAGCACAGGGGG
TTACAACCAGCCCAGCCTAGGATATGGACAGAGTAACCTACAGTTATCCCCAGGTACCTGGGAGCTACCCCATGCA
GCCAGTCACTGCACCTCCATCCTACCCTCCTACCAGCTATTCTCTACACAGCCGACTAGTTATGATCAGAGCAG
TTACTCTCAGCAGAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTA
TGGGCAGCAGCCTCCCCTAGTTACCCACCCCAAAGTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACA
GAGCAGCAGCTACGGGCAGCAGAGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCTCCTGTAGATCCAGA
TGAAGACTCTGACAACAGTGCAATTTATGTACAAGGATTAAATGACAGTGTGACTCTAGATGATCTGGCAGACTT
CTTTAAGCAGTGTGGGGTTGTTAAGATGAACAAGAGAACTGGGCAACCCATGATCCACATCTACCTGGACAAGGA
AACAGGAAAGCCCAAAGGCGATGCCACAGTGTCTTATGAAGACCCACCCCTGCCAAGGCTGCCGTGGAATGGTT
TGATGGGAAAGATTTTCAAGGGAGCAAACCTTAAAGTCTCCCTTGCTCGGAAGAAGCCTCCAATGAACAGTATGCG
GGGTGGTCTGCCACCCCGTGAGGGCAGAGGCATGCCACCACCACTCCGTGGAGGTCCAGGAGGCCAGGAGGTCC
TGGGGGACCCATGGGTGCGATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGTTT
CCGAGGGAAACCCCTCTGGAGGAGGAAACGTCCAGCACCGAGCTGGAGACTGGCAGTGTCCAATCCGGGTTGTGG
AAACCAGAACCTTCGCCTGGAGAACAGAGTGCAACCAAGTGTAAGGCCCCAAAGCCTGAAGGCTTCTCCCGCCACC
CTTTCCGCCCCCGGGTGGTGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCCTCATGGA
TCGTGGTGGTCCCGGTGGAATGTTTCAAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGGCAT
GGACCGAGGTGGCTTTGGTGGAGGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGG
AGGAAGAAGAGGAGGACGTGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGGCC
CTACTAG

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FIGURE 2310

MASTDYSTYSQAAAQQGYSAYTAQPTQGYAQTTOAYGQQSYGTYGQPTDVSYTQAQTTATYGQTAYATSYGQPPT
GYTTPTAPQAYSQPVQGYGTGAYDTTATVTTTQASYAAQSAYGTQPAYPAYGQPPAATAPTRPDGNKPTETSQ
PQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVTAAPPSPPTSYSSSTQPTSYDQSSYSQONTYGQPSSYGQQSS
YGQQSSYGQPPTSYPPTGSGYSQAPSQYSQQSSSYGQQRPMDEGPDLDLGPPVDPDESDNSAIYVQGLNDSVT
LDDLADFFKQCGVVKMNKRTGQPMIHIYLDKETGKPKGDATVSYEDPPTAKAAVEWFDGKDFQGSKLKVLARKK
PPMNSMRGGLPPREGRGMPPPLRGGPGGPGGPGPMGRMGGRGGDRGGFPFRGPRGSRGNPSGGGNVQHRAGDWQ
CPNPGCGNQNFARTECNQCKAPKPEGFLPPFPFPPGGDRGRGGPGGMRGGRGGLMDRGGPGGMFRGGRGGDRGG
FRGGRGMDRGGFGGGRGGPGGPPGFLMEQMGGRRGGRGPGKMDKGEHRQERRDRPY

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FIGURE 2311

AGACGCGCAAGGGCGCCGATGGAGGCAGACTCGCCAGCGGGCCCCGGCGCCCCAGAGCCCCTCGCGGAGGGAGCG
GCGGCCGAGTTCTCCAGCCTGCTGCGCAGGATAAAAAGGCAAACCTCTTCACCTGGAATATTTTGAAAACAATTGCC
CTGGGTCAGACGTTGTCTTGTGTATATGTGGGACAGCCATCACCAGCCAGTATTTGGCAGAAAGATACAAAGTG
AACACCCCCATGCTTCAGAGCTTTATCAATTATTGCTTGCTGTTCTAATTTATACAGTGATGCTGGCATTTCGA
TCAGGCAGTGATAACCTTTTAGTAATCTTGAAAAGAAAATGGTGGAAGTACATCCTGCTGGGACTAGCAGATGTG
GAAGCTAATTATGTGATCGTCAGAGCCTACCAGTACACAACCTCTAACCAGTGTCCAGCTTTTGGATTGCTTTGGG
ATTCTGTGTTGATGGCTCTGTGTCATGGTTTATTCTTCATGCAAGATACAGAGTGATCCACTTCATCGCCGTGGCT
GTCTGTCTGTTGGGTGTAGGAACCATGGTTGGTGCAGACATACTAGCAGGGAGGGAAGACAATTCAGGGAGTGAT
GTATTGATTGGTGACATCTTGGTCCTTCTTGGGGCTTCCCTCTATGCCATTTCAAATGTTTGTGAGGAATACATC
GTGAAGAAGCTGAGCAGACAGGAGTTTTTAGGAATGGTGGGCTGTTTGGAACAATTATCAGTGGTATACAGCTA
TTGATTGTGGAATATAAGGATATTGCCAGCATTCAATTGGGACTGGAATAATTGCCCTGCTGTTTCGTGGCATTTCGC
CTGTGTATGTTTTGCCTGTACAGCTTCATGCCATTGGTGATTAAAGTCACTAGTGCCACTTCCGTCAACCTGGGC
ATCCTGACAGCGGACCTCTACAGCCTTTTTGTTGGACTCTTTCTGTTTGGCTATAAGTTTTCAGGACTCTACATC
CTGTCTTTCACTGTGTCATGTTGGGGTTTATCCTGTACTGCTCCACCCCTACTCGCACGGCCGAGCCGGCTGAA
AGCAGCGTGCCTCCAGTCACCAGCATTGGGATTGACAACCTGGGGCTGAAGCTGGAGGAGAACCTCCAGGAGACC
CACTCTGCTGTCTTGTAGCTGGAGAAGATGGCGCACCCATCCCCACCAGGATAAAGCAGAGCCTGCTGCCTGCT
GAGGGGACACTTGGGGAAATAGCAGACTCAGAATGGACACTCTACAACCTGGGTTGGATCCAGTGGTTAGGTTT
TAGAAAGGAACACTGAACAAAGTTCAAAGTAGAAATACAAAATAGAGCAGAAACCAAGCTAAGAGTGTGTTTC
TGTGTTTGAGGACCAATATCTGTTTCGTGTTGAGGAGATGAGGTGCAGACTCCACACTGGGGTCTTAGAGGCACCG
GTGGGAAAGCAGGACTGGGGAGAGATCCAGGACTGAGCCAGCCTCAGGCCAGGGCGGGAAAGCAGGCTGTCCAGG
CTGGGCTTGGTGGTCAGGAACAGGGGCAGCTCACGGTGGCTCTGGAGTACGTTTCCTCTGTGATGCTTCAAGG
TTTTTTTTTTTTTTTTTTTTTTTTTGTGAGGCAGTTATTGTCCACAGGCCCTTGGGTACAGATGAGGCCTCGGGGCTG
ACTGCATGTGGCAGAAAACGGGTGGGTGAGCCCTTGAAAAGTCTTGAGATATAAGTGTGAGTACTATACAAGCAT
TAAACTGGAGTGCAGTAAACCTAGGAACCTTCCCACAATTGTTTTTTTGTGTTTGTGATGCAGAGTCTAGAGT
GCAGTGGTGAAGCTCAGCTTACTGTAACCTCTGCCTCCTGGATTCAAGTGTAGTAGCTGGGATTACAAAAGCA
TGTTGGCCCCACGCCAGCTAAGTTTTGTATTTTTAGTAGACATGGGGTTTCACCATGTTGCCAGGCTGGTCTTG
ACCTCCCGACCTCAAGTGATCTGCCTGCCCCGACCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCACCGTGCCA
GGCCTGTTTTGTTTGTGTTTTGTAGAGAGATGGGGTTTCGCCATGTTGCCAGGCTAATCTCAAATTCCTGAGCTA
AAGCGATCTGCCACCTCGGCCTCCGAAAGTGCTAGGATTACAGATGTGAACCACTGTGCCTGGCCTGTTTGTGTT
GTTTGTGTTAAACATTTCTCCATCACTCATTCCAGGTCCCAGAGCAAACCTCTCTGCTCTCGGAGCCTGTGACA
CTGGCTATGTGCTCCACAGTTTCAGTCCCAGGTCATACTCTCCAACAGTTTTTCAGAGCTCCATATATATGTAGAT
GCCATCCTTTCTAAAACTTCTCAGACCTCCTGGAATATTCTTATTGATCTCATTTTTATTTAGCATCAGCTCAA
GAACTAAGTCTTAGTGACAGTATCACAAAGAAAAAGCTTTGTTTTTATAACTGGTAAAAACAAGAAAAGA
TTCTCATCAAATGAAAATATAAAATTAATCATTTCTACCAAAGAGTATGCCTGGGAGCCTCCAGCTGTAAAA
GACAATGCTATTACTACTTCTTATCAAAAATCTGTAATGCCCTGTGATTTTTATGATACTTCTTCAATACAAAGT
GTTAATATGTGTCATCAGTATAATAACAACCAACAAAATGCCACTTTCAGAAAACGTATGTAAATTTTTGTAA
CAATGTAAAAAAGAAATGGGGAGTAAGTGTTACATCATTAATAAGGCTTTGAATTCATGGAAAT

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FIGURE 2312

MEADSPAGPGAPEPLAEGAAAEFSSLLRRIKGLFTWNILKTIALGQTLSLCICGTAITSQYLAERYKVNTPMLQ
SFINYCLLFLIYTVMLAFRSGSDNLLVILKRKWKYILLGLADVEANYVIVRAYQYTTLTSVQLLD CFGIPVLMA
LSWFILHARYRVIHFIAVAVCLLGVTMVGADILAGREDNSGSDVLIGDILVLLGASLYAISNVCEEYIVKKLSR
QEFLGMVGLFGTIIISGIQLLIVEYKDIASIHWDWKIALLFVAFALCMFCLYSFMPLVIKVT SATSVNLGILTADL
YSLFVGLFLFGYKFSGLYILSFTVIMVGFILYCSTPTRTAEP AESSVPPVTSIGIDNLGLKLEENLQETHSAVL

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FIGURE 2313

CATTAAAAATAAAGGGCATTACCCATATCATTCTCTGAGCTATACCAGTGGAGACACTGCCACTGATTCTCCAG
TGCATGTTGGACGTGCTGGGATGCCAGTAAAGGACAGTCCAAGGAAGGAGAGCCTACTCAGCTACCTGACTGGAA
GCTTCCCAAGCCTGCACAACCTCCTGGAAGGTACTCCTCAGAGAAGCAGTGCTGCTGTGAAAAGTAGCTCCCTAA
CGAGAACAGGAAATACAGTAGCCACTGATATGTTATCTGAACATCCCTTGCTATCTGAGCCATCATCTGTGAGTT
ATAATTGGATGTCAAATGCTGTGGGTAATCGAGGAAGTGTGTTACAAGAATCTCCTGTTACAAAATCAGGAC
ATAGTCTTCCCACAGGTGTTGCACCCAATCTTCCAACAATACCCTCAGCCTCAGATTTCAACACTGTCTTGT
AGTGACCAAATACTTTGGATGGGACACATTCTCAGCATAGCACCAGTCAGGATGATGTGGCAGGTGTAGAAG
AAGCAAACCAAGGGTTTCCTGCTGTTTCAGCTTGCTGATGCACAGGTTGTTTTCAAGCCTCTTCTGAGTCATACAG
TCCAGTCACAGGATACAATGCCATTCTGCTACCGAATGTACTTTGGAGAACACCTTTCAATTTTCAGGGACTT
GACTGCCTCAGAGCAGATATTGTGGATTTCAGACACAGCCAAAGAGAGAAAAGGCAAAAGAGCAAGAAGGCAAG
ATGTGAATCTTCTCCACTTGAGTTCAAACCAGCATTAAATGTTGGGAACCTTTAGCATCAGTGCTGTTGTAA
AAAAGTCCGTGTGCACCCCTCAGAACTCTACCAGTGGCCTTTCTTTTCATGATCTCAGCAAGCGGTATTATA
ACCTTTTCACTGCAACTTTACTATTTCTGTGCTAGTCAATAAGCCAGCATGTAGATATGGCTTTGGTTCGTCTTA
TTCATCAGTTTAGCACAATGATAGATGACATCAAAGCAACTCAGACTGATATTAACTTAGCAGATATACAGCCG
GATCTGCTTCCCCAACACCTACCTTCAAACCAGAAAACATCGGGACTTTTCGTTTCATCTGACTTTAGCCGCAGTT
CTAGAGGAAGTCTTAATGGTGGCAATAGAGTAAATAATGCAAAGAACAAACGGACCAACAATGAGAATAACAAAA
AGGAATCTCGAAACAAGAATTCATTAGGAAGATCTGAAAGAAGAACATCAAAAGTGTCTAGGAAAGGTTCAAAG
ATGTGGTGGATCACATGACTATTCATATGGATGACTCTGATTCAATTACAGTGTGAGAACAAAGTGAGCCTTCAG
CTGAGTGCTGGCAGAATATGTATAAATTGCTTAACTTCTATTCACTTATCTCCGATCCAACAGGAATATTGGAAA
AGTCTTCAGAAACATTTGGACCAGCAGGAGTTTCGGAGCCCTACAGAGCCAACATGTAAAGTTGTGTTTGAGAATG
AACAAGACAACAGCAGTTTGACTAAGACTCAGAGGAAACGTAGCTTGGTAACCTCTGAACCTCAGCATGTTACTC
TAATAGTGTGTTGGGATTGGCATGGTGAACCGCACACACCTAGAGGCAGATATTGGTGGACTAACAATGGAATCAG
AACTGAAGAGGATCCATGGCAGTTTTACTCTTAAGGAAAAAATGAAAAGATGTTTTACATCAAAAGATGACTGAGA
CTTGCTACTGCTCATATTGGTGGGGTTAATATTGTGCTGCTTGAAGGGATTACACCAAATATACAACCTGGAGG
ATTTTCCTACATCTCCTACAAGTACAGCCAAACAAGAGTTTCTGTATGTCATATTATTCTTTTTTCATGGCTTTGT
AATTACTGTAGTATTGAATAGTTTTTAAAATATTTAAATTTTTTCATGGCTGTGAATTATTTAGTTATTGTTTT
GTAGCTGTAATATAGGCCCTTTTATATAATAGATTAAAGCTTACTGGTAATCAAGGAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 2314

MPVKDSPRKESLLSYLTGSFPSLHNLLEGTPQRSSAAVKSSSLTRTGNTVATDMLSEHPLLSEPSSVSFYNWMSN
AVGNRGSVLQESPVTKSGHNSLPTGVAPNLPTIPSASDFNTVLSSDQNTLDGTHSQHSTSQDDVAGVEEANQGFP
AVQLADAQVVFKEPLLSHTGIQSQDTMPFCYRMYFGEHLFSGTLDCLRADIVDSDTAKERKKGKRARRQGHVNLPP
LEFKPALMLGTFSISAVVMEKSVCTPQNSTALSFDLSKRYNTFHCNFTISCQSIHQHVDMALVRLIHQFSTM
IDDIKATQTDIKLSRYTAGSASPTPTFKTRKHRDFRSDFSRSSRGSINGGNRVNNAKNKRTNNENNKKESRNKN
SLGRSEERTSKVSRKGSKD VVDHMTIHMDDSDSITVSEQSEPSAECWQNMVKLLNFYSLISDPTGILEKSSETFG
PAGVRSPTPTCKVVFENEQDNSSLTKTQRKRS LVTSEPQHVT LIVFGIGMVNRTHLEADIGGLTMESELKRIHG
SFTLKEKMKDVLHQMTETCATAHIGGVNIVLLEGITPNIQLEDFPTSPTSTAKQEFYVILFFFMAL

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FIGURE 2315

ATAATTCACCTGGAAGTGTGACATAGATGTATCAAAGGGAGCATTGCTAGAGGGCAGCTAGTGATTTCCATAGAA
GGATTAAATTCCTAAGCACCAGGCAAATGCTCTTCATTGTGTAACTAGATGGAGTCTCACTCTGTTACCCAGG
CCGGAGTGCAGTGGCGCAGTCTCGGCTCACTGCAACCTCCACCTCCCAGGTTCAAGTGATTCTCATGCCTCAGTC
CCCCGAGTAGCTGGGATTACAGATGCCCACCACCATGCCTGGCTAATTATGTTGCTTCTGCAGGAAGCCTTTTT
GGTGGCATGGTCCTCAAGAAGTTCCTAAAAGAAATACAGTCCATACTGCCCGGAATCTCTGCAAAGCTGACTTGG
ACTTCAGAGGAAGGCAGCTATTCTCAGGATATGACAGGGGTAACACCCTTCAGATGATTTTTGAGGTTGATGAA
AAGCCCAGAACCTTGATGACAGATTGTCTGGTTATAAAGCATTTTTTACGTAAATCATCATGGTGCACCCTAAG
GTCAGATTTCAATTCAGTGTAAGGTAAATGGAATCCTCTCCACAGAGATCTTTGGGGTGGAGAATGAACCCACT
TTGAACCTTGGGAATGGAATTGCTCTTTTGGTCGACTCCAGCATTATGTGAGACCAAATTTTGGTACAATTGAA
TCACACTGCAGCAGAATTCACCCTGTGCTAGGACATCCAGTAATGCTTTTCATCCCTGAAGACGTGGCTGGCATG
GACTTGTTGGGAGAACTGATACTGACTCCAGCAGCTGCACTGTGCCCCAGCCCCAAGGTTTCTTCCAACCAGCTT
AACAGGATTTCTTCAGTTTCCATATTTCTATATGGACCTTTGGGTCTGCCTCTGATATTGTCAACTTGGGAGCAG
CCGATGACTACTTTCTTCAAAGATACCTCTTCTTTAGTTGACTGGAAAAAATACCATTGTGTATGATACCCAAT
TTGGATCTCAATTTGGATAGAGATTTGGTGCTTCCAGATGTGAGTTATCAGGTGGAATCCAGTGAGGAGGATCAG
TCTCAGACTATGGATCCTCAAGGACAACTCTGCTGCTTTTTCTCTTTGTGGATTTCCACAGTGCATTTCCAGTC
CAGCAAATGGAAATCTGGGGAGTCTATACTTTGCTCACAATCATCTCAATGCCATCCTTGTGGAGAGCCACAGT
GTAGTGCAAGGTTCCATCCAATTCACCTGTGGACAAGGTCTTGGAGCAACATCACCAGGCTGCCAAGGCAGCTGAC
ACACAAGAGTTTCAAGGACCAAACTGCACAAAGTATTTTCGTGAGATCACCCAACACCAATTTCTTCACTGCTCA
TGTGAGGTGAAGCAGCAGCTAACCCTAGAAAAAAGGACTCAGCCCAGGGCACTGAGGACGCACCTGATAACAGC
AGCCTGGAGCTCCTAGCAGATACCAGCGGGCAAGCAGAAAAACAAGAGGCTCAAGAGGGGGCAGCCCCCGCATAGAG
GAGATGCGAGCTCTGCGCTCTGCCAGGGCCCCGAGCCCGTCAGAGGCCGCCCCGCGCCCGGAAGCCACCGCG
GCCCCCTCACTCCTAGAGGAAGGGAGCACCGCGAGGCTCACGGCAGGGCCCTGGCGCCGGGCAGGGCGAGCCTC
GGAAGCCGCTGGAGGACGTGCTGTGGCTGCAGGAGGTCTCCAACCTGTCAGAGTGGCTGAGTCCCAGCCCTGGG
CCCTGAAGCCGGTCCCTTCCGCAAGCGCCACCGATCCGGAGGCTGCGGGCAGCCGTTATCCCGTGGTTTAATA
AAGCTGCCGCGCTCACCAAAAAAAAAAAAAAAAAA

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FIGURE 2316

MVASAGSLFGGMVLKKFLKEIQSILPGISAKLTWTSEEGSYSQDMTGVTFFQMIFEVDEKPRTILMTDCLVIKHFL
RKIIMVHPKVRFHFSVKVNGILSTEIFGVENEPTLNLGNGIALLVDSQHYVRPNFGTIESHCSRIHPVLGHPVML
FIPEDVAGMDLLGELILTPAAALCPSPKVSSNQLNRISVSIFLYGPLGLPLILSTWEQPMTTFFKDTSSLVDWK
KYHLCMIPNLDLNLDRDLVLPDVSQVESSEEDQSQTMDPQGQTLLLFLFVDFHSAPFVQQMEIWGVYTLTTHL
NAILVESHVQGSIQFTVDKVLEQHHQAACAADTQEFRTKLHKVFREITQHQLHHCSCEVKQQLTLEKKDSAQ
GTEDAPDNSSLELLADTSGQAENKRLKRGSPRIEEMRALRSARAPSPSEAAPRRPEATAAPLTPRGREHREAHGR
ALAPGRASLGSRLEDVLWLQEVSNLSEWLSPSPGP

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FIGURE 2317

CTGACTCTGTCTGGGCATTCTTCCTGGGCTAGAGATGCTCTGCCCTCCAGCAGAAGACAAGAGCCCTAGAAAGAC
TGTCATTCAATTTACTGGAGAGAGAAATGGTTTCATCTACACACACACTCAGAGCCTGGCTAGCTACAAAGCCGTGG
TCCGTGGTAGGATGTACGTCTTAGTGGAATAAGTAACCTTGAGCAGACAATGGATCCAGCAGTAACAAGCCTGCC
CTGATGCCGGCGTAAATTCCGAAGGAGCTGGAGAACGATTCTTCCCTTCACTTTATCTAAATCCTCTGAAGGATG
AGTGGGAGGATGGTTTCTTCTCCCTTCCTGAAGGTTGTTTTGTTGGTGCCTTATGCTAAGAGAACTCAGCAGATA
CAAATTTATTATTTTCTTTTAGACAGCATTTTCCCTGCAGTTAGAAGAAAACAGCAGCTCACATTGAAAAATATC
TAATTCCTCCAAATACGTGATTCCAATAGGGAGTTATAGAATTTGCTTCTTACCAAAGCAAAATCTTGAATACAT
GAAATCTAAAATCTTGCCAATTTAATGAATGCCTAATAATTTTAAATAGCATATATCATTTTAATACATTAAAT
AGTTGGAAGATTGTTGAGGGATAATTTGTCAATTTTTATTAAAAAGAAAATTCATAAAAATTAATATTCTACA
TTTATTTTATATTATTATCTTGGAATTTTATTTTTTATGACAAAATCTGAGTCTGTTATATTATCCAAATCCT
AAAAAGATTTAATTGATTACAGAAAAATGTATTGGGAAAAATTGCTTTGCCCTCTTTTTTCTCTAAGCAATTCC
TGAGTTTTAAAAATACTCCTTAAAGGAACTAATTTATTTTTTCATGGCCCATCACCAATATCCAAGAGAGTAACCA
ATTTTTAAATTTCTGAACCTGTCTTGTGTGACTTTCAAACTAAATGAAATGAAGAGGCCTCAGGCAGTCTGTGTT
TACACAGGGTGGCAAAATTAACCTTAAGTTACTTGATCACTGCAGTGGGGACACTTCAGAGCCTCTACTCAGGC
TACTTTTGAGCATACTATGTATGTCGCTGTGCAGAAGCCTACCTCTTTCAGTCTAGATAAAAACAAGACTTTCTGA
GCACTTACTCTGAGCAAAGCACCGTGCCGCAAGTACAAAGGTGGATAAGACTCAGTCCTTGATTGATGGTCTTT
GTTGGAATAGGTTTTCAAACGTAAATGTCACTGTGTCTCCCAGGGGCCAAAAGTTTGCTTTCATTGATGGGTTTC
AAAGTAGGGATGAGTTTACTTATAAGTACACATTGTGTCAATAGTATGCTTGACTCTCCATGGTGCAAAATTTCT
TTCTAATGCTGATCAATTGCAAACATGATAGAACAATGAAATACTTCCAGGACATTCTAAATCACTCTCCTCCTT
GTGAGAAAATAGGGTAGAGAGCCTAGCCTGGTACAGGCAGCCATCCATGTCTGATGTGGGTCATCTCTGAGAATG
ACACTCCTCAAAGGGCCAGAGGGTGCTCTTCTTCATTTCCCTTACACATGGGTGTTATTCAATACTTATCTACA
GCCATGTGTCACTTAACAACCTGGAATATGTTCCAAGAAATCTGTCAATAGGCTATTTTGTATTGTGTGATCACA
GAGTGTACTTACACAAACCTAGGGTGGTATAGTTCACTGTACCACCAAGGCCATATAGTGTAGCCTAGGCTACAA
TATACCTAGGCTATATAGTATAGCCTGTAGCTCCTAGGCTACAAACCTGGACAGCATGTTACTGCACTGAGTACT
GTAGCAATTGTTACACAGTGGTAACTATTTGTGTATCTAAACATATCTAAACATAGAAAAGATACAGTAAAAATA
CAGCAGTATAATCTTATGGGACCACCGTTGTATATGTGGTCCATCGTTGATGGAAACATTGTTATGTGGCACATG
ACTGTATATGCTTCGTATATAGTGAACATTGAGCAAAGGTTTTTCATCAATGAATGGATAAATTGGCAACTTTTAT
GGGCTTAATTGGGCTAAAATATATACGGAGTCACTATTTGACTTAACACCTAGACATTATTTTACTGATATTTTT
CAATAATTCTGTTTTTGTAAAGCCTTCCTTCCATTTGGGTGCAATTTCCACTTGGGGAAAATCTCATTCCTCCATC
CTCTTGTAATTAAAAAGCATGGTTTGTGTTTGTGTAACCTCAAAGTAAATTGAGCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 2318

GCGGTTCCCTCTAGGAAAATTCTTTGTGCAGATCAGGCCCGTGGATTGGTGAGTGAATCCTAACCACGTCTTCCC
TGGCCTGTCTTCACTCTTCTCCCCAGAATCACCACCTTCTGCACTGGTGTCTGAAGGTGTATTGAGTGATTTTGTG
GAGGGCAGAAGTAGGAAGTCTTTGGGACAAAACCTGTATTTACCTTGGGATCTGTGAACAAGAGGAACCTCAGCAG
CCAGGACAGGCAGGAGCAGTGGAAATAGCTACTATGGCTTCTGGAATCCTGGTTAATGTAAAGGAGGAGGTGACCT
GCCCCATCTGCCTGGAACCTCTGACACAACCCCTGAGCCTGGACTGCGGCCACAGCTTCTGCCAAGCATGCCTCA
CTGCAAACCACAAGAAGTCCATGCTAGACAAAGGAGAGAGTAGCTGCCCTGTGTGCCGGATCAGTTACCAGCCTG
AGAACATACGGCCTAATCGGCATGTAGCCAACCTAGTGAGAGAGCTCAGGGAGGTCAAGTTGAGCCCAGAGGGGC
AGAAAGTTGATCATTGTGCACGCCATGGAGAGAACTTCTACTCTTCTGTGTCAGGAGGACGGGAAGGTCATTTGCT
GGCTTTGTGAGCGGTCTCAGGAGCACCGTGGTCAACACAGTTCCCCACAGAGGAGGTTGCCAGGAGTACCAAG
TGAAGCTCCAGGCAGCTCTGGAGATGCTGAGGCAGAAGCAGCAGGAAGCTGAAGAGTTGGAAGCTGACATCAGAG
AAGAGAAAGCTTCTGGAAGACTCAAATACAGTATGACAAAACCAACGTCTTGGCAGATTTTGAGCAACTGAGAG
ACATCCTGGACTGGGAGGAGAGCAATGAGCTGCAAAACCTGGAGAAGGAGGAGGAAGACATTCTGAAAAGCCTTA
CGAACTCTGAAACTGAGATGGTGCAGCAGACCCAGTCCCTGAGAGAGCTCATCTCAGATCTGGAGCATCGGCTGC
AGGGGTGAGTGATGGAGCTGCTTCAGGGTGTGGATGGCGTCATAAAAAGGACGGGAGAACGTGACCTTGAAGAAGC
CAGAACTTTTCCAAAAAATCAAAGGAGAGTGTTTCGAGCTCCTGATCTGAAAGGAATGCTAGAAGTGTTTAGAG
AGCTGACAGATGTCCGACGCTACTGGGTTGATGTGACAGTGGCTCCAAACAACATTTTATGTGCTGTCATTTCTG
AAGATAAGAGACAAGTGAGCTCTCCGAAACCACAGATAATATATGGGGCACGAGGGACAAGATACCAGACATTTG
TGAATTTCAATTATTGTACTGGCATCCTGGGCTCTCAAAGTATCACATCAGGGAAACATTACTGGGAGGTAGACG
TGTCCAAGAAAACCTGCTTGGATCCTGGGGGTATGTGCTGGCTTCCAACCTGATGCAATGTGTAATATTGAAAAA
ATGAAAATTATCAACCTAAATACGGCTACTGGGTTATAGGGTTAGAGGAAGGAGTTAAATGTAGTGCTTTCCAGG
ATAGTTCCCTCCATACTCCTTCTGTTCCCTTTCATTGTGCCCTCTCTGTGATTATTTGTCTGATCGTGTTGGAG
TTTTCTAGACTATGAGGCTTGCACTGTCTCATTCTTCAATATCACAAACCATGGATTTCTCATCTATAAGTTTT
CTCACTGTTCTTTTTCTCAGCCTGTATTTCCATATTTAAATCCTAGAAAATGTGGAGTCCCCATGACTCTGTGCT
CACCAAGCTCTTGAACCTTCTTACACACTCAGCCCCTTCTGTACAGCACCTCTTGTCCAGGTGCATCTCATACAC
CTGAACTCATTTGCATCATTTTAAACCATCTTTTCCCTTGCTGTCTCCCTTCTTTCTATTTGAACGTCCTTCACTCA
TCAGTAAAATGTAATAATTGCCTTGCGCATATTGTCCCAATATTTTATTGACATTTGATAGCAATTTTTTTTCA
TCATTTCCGTACTCCTAAGGAAAACCTGACCTATACCTCATAAAATGAGACCGCTATTTAGGTATTACTTCTGCC
AGATATTTATCACCAATTGCCTCTGACACTGACTAAGAAGATGAAGAAAAGCTTTTCAACAGCCTTTCTATATC
ATCGTGTGATAATTGTTACCAATGAATGAGTCCTTAGCCCTGTGTCAGTTTACCCTCGATGCCCTTATTTGTGA
GTTAAAGAGAAAATATCATAAATGGTATACTCTTAAGTATAGAGGTTTTGTATCTAGAGGATCTCAGTTCAACTC
CTGTCTCTCCATATACCAGCAGTGTAACCTGTGAATAACATACTTAAATGGCTGTGCTTATTTCCCTTTTCTTTCT
TTTTCTTTTTTTTTTTTTTTTTGAGATGAAGTTTTGCTCTTGTTCCTCAGGCTGGAGTGCAATGGCACGATCTCGG
TTCCTGCAACCTCCACCTCTCAGATTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGTG
CCCACCACCACCCTGGCTAAATTTGTATTTTCTAGTAGAGACGGGGTTTCCCATGTTGGTTAGGCTCGTCTAGA
ACCTCTGACCTCAGGTGATCCACCCGCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACGGCGCCCA
GCCTGTGCTTATTTTCTTAAATAAATTTTGTATTAAAACTTCACATTAAATAAGTGCTAATGTTTTATTGCAT
AGTAGGGTGACTAGAGTTAACAATAACCTATTGCATATATTTTGAATAGCTAGAAGAGAGGATTTTGAAAGTTC
TCAACACAAAGAAACGACACATATTTGAGGTGATGGATATGCTAATTACCCTGGTTCGGTTATTACGCAATGTAT
ACATGTATCAAACATCACACTGTACCACATAAATATGTATATTTATTATTTGTCAATTTAAAGCAAAATAAAAC
AAAAACCTTCATCTAATACTTTGGATCATTGTGAAAAATAAATTCCTGAAGTATAAAGCATCT

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FIGURE 2319

MASGILVNVKEEVTCPICLELLTQPLSLDCGHSFCQACLTANHKKSMLDKGESSCPVCRISYQPENIRPNRHVAN
LVEKLREVKLSPEGQKVDHCAHGEKLLLFQEDGKVICWLCERSQEHRGHHTFPTTEEVAQEYQVKLQAALMLR
QKQQAEELEADIREEKASWKTQIQYDKTNVLADFEQLRDILDWEESNELQNLKEEEDILKSLTNSETEMVQQT
QSLRELISDLEHRLQGSMELLQGVDGVIKRTENVTLKKPETFPKNQRRVFRAPDLKGMLEVFRELTDVRRYWVD
APNNISCAVISEDKRQVSSPKPQIIYGARGTRYQTFVNENYCTGILGSQSITSGKHYWEVDVSKKTAWILGV
QPDAMCNIEKNENYQPKYGYWVIGLEEGVKCSAFQDSSFHTPSVPFIVPLSVIICPDRVGVFLDYEACTVS
TNHGFLIYKFSHCSFSQPVFPYLNPRKCGVPMTLCSPPS

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FIGURE 2320A

ATCTCTATCCTTCTTCTGGTCCTTCTAGAAAAATCAGGTGGAGATGATAGTGGCTTGCATGATGGTGGTAGAGCT
GGAGGTGCAGGGCAAAGGTCAGATTCTGAATATATTTTGAAGTAAAGGCAACAAGATTTCTGACAGATTGATT
ATGGTGTGTCAAAGAAAGAGAGGAATGCAGGATGATTCCAGTGTTTTTGTTGACAACATAAGTCTGGAGCTGCC
AACTGGATGCAGAAGTTCACTGGAGGGCCAGCCTGGGGAAAGGATCAGGAGCAGGTTAGGCATGTTAAGCTTGA
GATGTCTGTTAAACATCCAGATAGGAATGTCAAAGATGCACTTGTGTTTAAAGTCTAGGAATGCAAGAGGGAATT
TTAGGCTAGAAACAAAAAGTTAGAAATTATTCGATACAGATGGTATTTAAAGCTGTGTGACTGACTGACATGACA
GAAGTGGCGAGAATAGACTGAGAAGTCCAAGGAATGAGCCTTGGACCACTCCAGTGTAGGTAAAGTAGTTGAAAA
AAAGAGAGAGAGAGAAGGCATCAAAGGAGACTGAGGAAGAGTGATCAGGAAAGCATAGGAAAAATCCGAGAAACAT
ATGGTGTCTTGGAAATCTATATGAAAAAGATATATTCAGAAAGACAGAGTGATAAATCTGTCAAATTATTGAATTT
GTCAGGTAAAAATAAGAACAGAGAATTGATCTTTGGACTTAGCAAAGCAGAGATTATCAGTGACTTTTATAAAAAAT
AGTTTCCGGTAGTGTGGAAAGATCAAACCTTCTGTTTAGAGTGGGTTTCAGAGAGAACAACAGGAATTGAAGAAGTA
ATAAACTTTGCCAACCACTTTAGCTCCAAAGGAAAAGAGGGAATATGATGGTAGCTGGCAGGGGAAGTGTGGTC
AAGAGAGGTTTTTTGTTTGTTCCTCAAGATGGAAGAAATAACAGTATGTATGTAAGCTCACAGGAGGGATCCAGC
AGGCATGGGGAAATTGATGATATAGGACAGAAAGGGAAGAATGGCTCCTTGTGAAAGTGAAAGGGGATGGGATCT
ACAGGATGAACATGCAAACAAAGACTGGCTGCAAAGAGAGGCATGAATAGTTTACAGAAACAGCAAAGGCA
GAGTGTGGTACAGATGCTGGTAAGTGGAAAAATATCATGGTAGGAGGTTATGGAGTTCCATTCTAAACACTTCA
ACTTCATCAGTGAAATAAGCACGGTAATTTAGCAGAATGTGAAGATGTAAAAGAACAGAATTTGAGAAAACAGAC
GATATGAAATAATTATTAGAAAAGCAGAGACTGAAGAACTGTCTATCTCCTTATGTGCTAATGAGTTTAATAATG
TCCTCCAGTCACCACAAGCCTTCTTTCAAACACACAATCCAACCTGCTCCGCTCAGAGTATCTTGAATAAT
GATCTGACCGCCTGTTAGACCAGTGAAGGGAAGGAATTTGGGTTGATTTAAGAAGAGAAATCCTCATGGTCATGGT
AGACTGATATGGAGAGAAAACATTTTGGAGAAAAATACTCAACTAAATTCATTTCTACTCCAGCATGCAGTTTCA
AGTCAAGTTCACCTTAGCTCCAGGTGGCAGGCAGAGCAGGATGCAGAGGCACAGCACAAGTAAGGGATCCAATG
ACTGAGTCAAGAATTACATAACCTGGCCAGACAGCTGGTACATGGGAAAGTGCTAAGAGGGCACCAACAGCGTTC
CTCCTCCCAAGGAGCATAATGTGATGGTTTCTGCGGCCCTGGCTGACTCTCGCCGCTCCTTGGAGATAATTGGG
TTCAGTGCCACCTGGACCAGAACTGGGGATGCGGAAGCAACCTGCCAGACACGCGCAGGTTGAGGCTGAGATG

GATCTTGAGGCGGCAAAGAACGGAACAGCCTGGCGCCCCACGAGCGCGGAGGGCGACTTTGAACTGGGCATCAGC
AGCAAACAAAAAGGAAAAAACGAAGACAGTGAAATGATTGGAGTATTAACATTGTTTCGATACTCCGATTGG
CAGGATAAATTGTTTATGTGCTGGGTACCATCATGGCCATAGCTCACGGATCAGGTCTCCCCCTCATGATGATA
GTATTTGGAGAGATGACTGACAAATTTGTTGATACTGCAGGAACTTCTCCTTTCCAGTGAACTTTTCTTGTGCG
CTGCTAAATCCAGGCAAAATTTCTGGAAGAAGAAATGACTAGATATGCATATTACTACTCAGGATTGGGTGCTGGA
GTTCTTGTGCTGCTATATACAAGTTTCATTTTGGACTTTGGCAGCTGGTGCACAGATCAGGAAAATTAGGCAG
AAGTTTTTTTCATGCTATTCTACGACAGGAAATAGGATGGTTTGACATCAATGACACCACTGAACCTCAATACGCGG
CTAACAGATGACATCTCCAAAATCAGTGAAGGAATTTGGTGACAAGGTTGGAATGTTCTTTCAAGCAGTAGCCACG
TTTTTTGCAGGATTCATAGTGGGATTCATCAGAGGATGGAAGCTCACCTTGTGATAATGGCCATCAGCCCTATT
CTAGGACTCTCTGCAGCCGTTTGGGCAAAGATACTCTCGGCATTTAGTGACAAAGAACTAGCTGCTTATGCAAAA
GCAGGCGCCGTGGCAGAAGAGGCTCTGGGGGCCATCAGGACTGTGATAGCTTTGGGGGCCAGAACAAGAGCTG
GAAAGGTATCAGAAACATTTAGAAAATGCCAAAGAGATTGGAATAAAAAAGCTATTTAGCAAACATTTCCATG
GGTATTGCCTTCTGTGTTAATATATGCATCATATGCCTGGCCTTCTGGTATGGATCCACTCTAGTCATATCAAAA
GAATATACTATTGGAAAATGCAATGACAGTTTTTTTTTCAATCCTAATTGGAGCTTTAGTGTGGCCAGGCTGCC
CCATGTATTGATGCTTTTGCCAATGCAAGAGGAGCAGCATATGTGATCTTTGATATTATTGATAATAATCCTAAA
ATTGACAGTTTTTCAGAGAGAGGACACAAACCAGACAGCATCAAAGGGAATTTGGAGTTCAATGATGTTCACTTT
TCTTACCCTTCTCGAGCTAACGTCAAGATCTTGAAGGGCCTCAACCTGAAGGTGCAGAGTGGGCAGACGGTGGCC
CTGGTTGGAAGTAGTGGCTGTGGGAAGAGCACAACGGTCCAGCTGATACAGAGGCTCTATGACCCTGATGAGGGC
ACAATTAACATTGATGGGCAGGATATTAGGAACCTTAAATGTAACTATCTGAGGGAAATCATTGGTGTGGTGAAT
CAGGAGCCGGTGTGTTTTCCACCACAATTGCTGAAAATATTTGTTATGGCCGTGGAAATGTAACCATGGATGAG
ATAAAGAAAGCTGTCAAAGAGGCCAACGCCTATGAGTTTATCATGAAATTACCACAGAAATTTGACACCCTGGTT
GGAGAGAGAGGGGGCCAGCTGAGTGGTGGGCAGAAGCAGAGGATCGCCATTGCACGTGCCCTGGTTTCGAACCCC
AAGATCCTTCTGCTGGATGAGGCCACGTGAGCATTTGGACACAGAAAGTGAAGCTGAGGTACAGGCAGCTCTGGAT

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FIGURE 2320B

AAGGCCAGAGAAGGCCGGACCACCATTGTGATAGCACACCGACTGTCTACGGTCCGAAATGCAGATGTCATCGCT
GGGTTTGAGGATGGAGTAATTGTGGAGCAAGGAAGCCACAGCGAACTGATGAAGAAGGAAGGGGTGTACTTCAAA
CTTGTCAACATGCAGACATCAGGAAGCCAGATCCAGTCAGAAGAATTTGAACTAAATGATGAAAAGGCTGCCACT
AGAATGGCCCCAAATGGCTGGAAATCTCGCCTATTTAGGCATTCTACTCAGAAAAACCTTAAAAATTCACAAATG
TGTCAGAAGAGCCTTGATGTGGAAACCGATGGACTTGAAGCAAATGTGCCACCAGTGTCTTTCTGAAGTCTCTG
AAACTGAATAAAACAGAATGGCCCTACTTTGTCTGGGAACAGTATGTGCCATTGCCAATGGGGGGCTTCAGCCG
GCATTTTCAGTCATATTCTCAGAGATCATAGCGATTTTTTGGACCAGGCGATGATGCAGTGAAGCAGCAGAAGTGC
AACATATTCTCTTTGATTTTCTTATTTCTGGGAATTATTTCTTTTTTTTACTTTCTTCCTTCAGGGTTTCAGTTT
GGGAAAGCTGGCGAGATCCTCACCAGAAGACTGCGGTCAATGGCTTTTAAAGCAATGCTAAGACAGGACATGAGC
TGGTTTGATGACCATAAAAACAGTACTGGTGCACCTTTCTACAAGACTTGCCACAGATGCTGCCCAAGTCCAAGGA
GCCACAGGAACCAGGTTGGCTTTAATTGCACAGAATATAGCTAACCTTGGAAGTGGTATTATCATATCATTTATC
TACGTTTGGCAGTTAACCTTATTGCTATTAGCAGTTGTTCCAATTATTGCTGTGTGTCAGGAATTGTTGAAATGAAA
TTGTTGGCTGGAAATGCCAAAAGAGATAAAAAAGAACTGGAAGCTGCTGGAAAGATTGCAACAGAGGCAATAGAA
AATATTAGGACAGTTGTGTCTTTGACCCAGGAAAGAAAATTTGAATCAATGTATGTTGAAAAATTGTATGGACCT
TACAGGAATTCTGTGCAGAAGGCACACATCTATGGAATTACTTTTAGTATCTCACAAGCATTATGTATTTTCC
TATGCCGGTTGTTTTCGATTTGGTGCATATCTCATTGTGAATGGACATATGCGCTTCAGAGATGTTATTCTGGTG
TTTTCTGCAATTGTATTTGGTGCAGTGGCTCTAGGACATGCCAGTTTCAATTTGCTCCAGACTATGCTAAAGCTAAG
CTGTCTGCAGCCCACTTATTCATGCTGTTTGAAGACAACCTCTGATTGACAGCTACAGTGAAGAGGGGCTGAAG
CCTGATAAATTTGAAGGAAATATAACATTTAATGAAGTCGTGTTCAACTATCCACCCGAGCAAACGTGCCAGTG
CTTCAGGGGCTGAGCCTGGAGGTGAAGAAAGGCCAGACACTAGCCCTGGTGGGCAGCAGTGGCTGTGGGAAGAGC
ACGGTGGTCCAGCTCCTGGAGCGGTTCTACGACCCCTTGGCGGGGACAGTGTGTTGTGGACTTTGGTTTTTCAGCTT
CTCGATGGTCAAGAAGCAAAGAACTCAATGTCCAGTGGCTCAGAGCTCAACTCGGAATCGTGTCTCAGGAGCCT
ATCCTATTTGACTGCAGCATTGCCGAGAATATTGCCTATGGAGACAACAGCCGGGTTGTATCACAGGATGAAATT
GTGAGTGCAGCCAAAGCTGCCAACATACATCCTTTTCATCGAGACGTTACCCCAAAATATGAAACAAGAGTGGGA
GATAAGGGGACTCAGCTCTCAGGAGGTCAAAAACAGAGGATTGCTATTGCCCGAGCCCTCATCAGACAACCTCAA
ATCCTCCTGTTGGATGAAGCTACATCAGCTCTGGATACTGAAAGTGAAAAGGTTGTCCAAGAAGCCCTGGACAAA
GCCAGAGAAGGCCGCACCTGCATTGTGATTGCTCACCGCCTGTCCACCATCCAGAATGCAGACTTAATAGTGGTG
TTTCAGAAATGGGAGAGTCAAGGAGCATGGCACGCATCAGCAGCTGCTGGCACAGAAAGGCATCTATTTTTCAATG
GTCAGTGTCCAGGCTGGGACACAGAAGCTTATGAAGCTTTTGTACAGTATATTTTAAAAATAAATTCAAATTATTC
TACCCATTTT

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FIGURE 2321

MDLEAAKNGTAWRPTSAEGDFELGISSKQKRKKTCTVKMIGVLTFRYSDWQDKLFMSLGTIMAI AHGSGLP LMM
IVFGEMTDKFVDTAGNFSFPVNFSLSLNPGKILEEEMTRYAYYYSGLGAGVLVAAYIQVSFWTLAAGRQIRKIR
QKFFHAILRQEIGWFDINDTTELNTRLTDDISKISEGIGDKVGMFFQAVATFFAGFIVGFIRGWKLTIVMAISP
ILGLSAAVWAKILSAFSDKELAAAYAKAGAVAEALGAIRTVIAFGGQNKELERYQKHLENAKEIGIKKAISANIS
MGIAFLLIYASYALAFWYGSTLVISKEYTIGNAMTVFFSILIGAFSVGQAAPCIDAFANARGAAYVIFDIIDNNP
KIDSFSEGRHKPDSIKGNLEFNDVHFSYPSRANVKILKGLNLKVQSGQTVLVGSSGCGKSTTVQLIQRLYDPDE
GTINIDGQDIRNFNVNYLREIIGVVSQEPVLFSTTIAENICYGRGNVTMDEIKKAVKEANAYEFIMKLPQKFDTL
VGERGAQLSGGQKQRIAIARALVRNPKILLLDEATSALDTESEAEVQAALDKAREGRTTIVIAHRLSTVRNADVI
AGFEDGVIVEQGSHSELMKKEGVYFKLVNMQTSQSQIQSEEFELNDEKAATRMAMPNGWKSRLFRHSTQKNLKNSQ
MCQKSLDVETDGLLEANVPPVSFLKVLKLNKTEWPYFVVGTVCAIANGGLQPAFSVIFSEIIAIFGPGDDAVKQQK
CNIFSLIFLFLGIIISFFTFFLQGFTFGKAGEILTRRLRSMAFKAMLRQDMSWFDDHKNSTGALSTRLATDAAQVQ
GATGTRLALIAQNIANLGTGIIISFIYGWQLTLLLLAVPPIIAVSGIVEMKLLAGNAKRDKKELEAAGKIATEAI
ENIRTVVSLTQERKFESMYVEKLYGPYRNSVQKAHIYGITFSISQAFMYFSYAGCFRFGAYLIVNGHMRFRDVIL
VFS AIVFGAVALGHASSFAPDYAKAKLSAAHLFMLFERQPLIDSYSEGLKPKDFEGNITFNEVVFNYPTRANVP
VLQGLSLEVKKGQTLALVGSSGCGKSTVVQLLERFYDPLAGTVFVDFGFQLLDGQEAKKLNVQWLRAQLGIVSQE
PILFDCSIAENIAYGDNSRVVSQDEIVSAAKAANIHPFIETLPHKYETRVGDKGTQLSGGQKQRIAIARALIRQP
QILLLDEATSALDTESEKVVQEALDKAREGRTCIVIAHRLSTIQNADLIVVFQNGRVKEHGTHQQLLAQKGIYFS
MVS VQAGTQNL

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FIGURE 2322

TCTCTCTGTACCTCACCTTCCCTGTGCCACATGGGCCCTCTCTCTCCTGCCAGGACGCTGCGGCTCTGGGGAC
CTCGGAGCCTGGGGGTGGCTCTGGGAGTCTTCATGACCATTGGCTTTGCACTCCAGCTCTTGGGAGGGCCCTTCC
AGAGGAGGCTACCTGGGCTACAGCTCCGACAGCCCTCGGCCCCATCCCTACGACCAGCCCTTCCGTCCTGCCCAC
CCCGGCAGCGACTGGTGTTCCTGAAGACACATAAATCCGGGAGCAGCTCTGTGCTGAGCCTGCTTACCAGCTATG
GGGACCAGCACGGGCTGCGCTTCGCCCTCCCTGCCCCGTACCAGTTTGGCTACCCAAAGCTCTTCCAGGCCTCTA
GGGTAAAAGGCTACCGCCACAGGGTGGAGGCACCCAGCTCCCCCTCCACATCCTCTGTACCACCTTGAGGTTCA
ACCTGAAAGAGGTACTTCAGGTCATGCCCTTCTGACAGCTTCTTTTTTTTCCATTGTCCGAGACCCAGCGGCTCTGG
CTCGCTCTGCCTTCTCCTACTATAAATCCACCTCATCAGCCTTCCGCAAGTCACCATCTTTGGCTGCCTTCCTGG
CCAATCCTCGAGGCTTCTACAGGCCTGGGGCCCGTGGGGACCCTACGCTCGCAACTTACTATGGTTTGACTTTG
GCCTGCCCTTTCCCCCAGAGAAGAGGGCCAAGAGAGGGAATATTTCATCCCCCAGAGACCCCAACCCCCACAGC
TGCAGGTCTTGCCTTCTGGTGTGCGCCCTCGAGCCCCAAACCCTCAATCCCAATGCCCTCATCCATCCTGTTTCCA
CTGTTACTGATCATCGCAGCCAGATATCAAGCCCTGCCTCTTTTCGATTTGGGGTCTTCATCCTTCATCCAGTGGG
GTCTGGCATGGCTGGACTCTGTCTTTGACCTGGTCATGGTGGCTGAGTACTTCGATGAGTCATTGGTTCTGCTGG
CAGATGCCCTGTGCTGGGGTCTAGATGACGTGGTGGGCTTCATGCACAATGCCAGGCTGGACATAAGCAGGGCC
TCAGCACTGTGACGAACAGTGGACTGACTGCGGAGGACCGGCAGCTGACTGCACGGGCCCCGAGCCTGGAACAACC
TGGACTGGGCTCTCTATGTCCACTTCAACCGCAGTCTCTGGGCACGGATAGAGAAATACGGCCAGGGCCGGCTGC
AGACAGCTGTGGCCGAGCTCCGGGCTCGCCGAGAGGCCCTAGCGAAACATTGTCTGGTAGGGGGTGAGGCTTCTG
ACCCCAAATACATCACTGATCGCCGGTTCCGCCCTTCCAGTTTGGGTCAGCTAAGGTTTGGGCTATATACTTC
GGAGAGGATTGAGCCCCCAAGACCAAGAGGAATGTGAGCGCCTAGCTACCCCTGAGCTCCAGTACAAGGACAAGC
TGGATGCCAAGCAGTTCCCCCTACCGTCTCACTGCCCCCTCAAGACTTCAAGGCCACTCTCCCCATAAACATCAG
ACTACAGATTTAGGTGGAAGAGCAGCCATGTTTGAAGGGCACATGTGATGAGTGGGGGGCAGCAAGATGCCATTT
CTGCATCTCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTCTTCGCTGGGCTCCCAGCAGTGCTTCCC
TCCTCCACCTCCACTCATTTTGTCTTTCCCCCAACTTTTTTTTTTTTGAACGGAGTCTTGCTCTGTCCCC
CAGGCTGGAGTGACGTGGCATGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGATTCTCCTGCCTC
AGCCTCCAGAGTAGCTAGGATTACAGATACGTGCCACCATACCCGGCTAATTTTTATATTTTATAGACAGGGAT
TCAACATGTTGGTTAGGCTGGTCTTGAACCTCCTCACCTCAGGTGATCCACATGACTCTGCCTCCCAAAGTGCTGC
CATTACAGGCGTGAGCCACTAGGCCTGACCTCCCCCTTCCCCCTTCTGCCCCAAGGCAGATCCACATCACCAGG
CTCCCTAGAGGGGCAAAAGATGGAGTGAGCCACAGGAAGTTTGGGGCGTGGTGAGTTGGAATGATACGTCCATTT
CTCTATGAAATATTTGCTACTAGACTGTTCAATTTCTCTCTGACATGTTTGTGTAATGAATAAATAATTTGAAACT
T

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FIGURE 2323

MGPLSPARTLRLWGPRSLGVALGVFMTIGFALQLLGGPFQRRLPGLQLRQPSAPSLRPALPSCPPRQRLVFLKTH
KSGSSSVLSLLHRYGDQHGLRFALPARYQFGYPKLFQASRVKGYRPQGGGTQLPFHILCHHLRFNLKEVLQVMPS
DSFFFSIVRDPAAARSFAFSYYKSTSSAFRKSPSLAAFLANPRGFYRPGARGDHYARNLLWFDFGLFPPEKRAK
RGNIHPPRDPNPPQLQVLPSGAGPRAQTLNPNALIHVSTVTDHRSQISSPASFDLGSSSF IQWGLAWLDSVFDL
AEYFDESLVLLADALCWGLDDVVGFMHNAQAGHKQGLSTVSNSGLTAEDRQLTARARAWNNDWALYVHFNR
ARIKEYGQGRLOTAVAE LRARREALAKHCLVGGEASDPKYITDRRFRPFQGS AKVLGYILRRGLSPDQEE
ATPELQYKDKLDAKQFPPTVSLPLKTSRPLSP

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FIGURE 2324

CTAAAGTGGAGCCCAGCGGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCG
GGGTCGGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGGCAGAGAATGGAAAAAATTGTGACCAGAGACGTG
TAGCAATGAACAAGGAACATCATAATGGAAATTTACAGACCCCTCTTCAGTGAATGAAAAGAAGAGGAGGGAGC
GGGAAGAAAGGCAGAATATTGTCCTGTGGAGACAGCCGCTCATTACCTTGACGTATTTTTCTCTGGAAATCCTTG
TAATCTTGAAGGAATGGACCTCAAAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTGCTTGCTG
TGCTTATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTTGT
ATGCCTACTGGATAGGCTTAGGAATTTTGTCTTCTGTTGGGCTTGGAACAGGGCTGCACACCTTTCTGCTTTATC
TGGGTCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTTTCCCGAACCCCTATC
CTGATCAGATTATTTGTCCAGATGAAGAGGGCAGTGAAGGAACCATTCTTTTGTGGAGTATCATCTCAAAAAGTTA
GGATTGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTTCATGGCCAGAGCAGCTC
GCCTCTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCAC
AAGACTTTGCCTCCCGGGCCAACTGGCAGTTCAAAAACCTAGTACAGAAAGTTGGATTTTTTGGAAATTTTGGCCT
GTGCTTCAATTCCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTTTGGACCT
TCTTTGGTGCAACCCTAATTGGAAAAGCAATAATAAAAATGCATATCCAGAAAATTTTTGTTATAATAACATTCA
GCAAGCACATAGTGGAGCAAATGGTGGCTTTTCATTGGTGTCTGTCCCGGCATAGGTCCATCTCTGCAGAAGCCAT
TTCAGGAGTACCTGGAGGCTCAACGGCAGAAGCTTCACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAAC
GGTTGTCTGGATGTTTGAAGTTGGTCTGTTGTATGGTGTGTTACTTCATCCTATCTATCATTAACTCCATGG
CACAAAGTTATGCCAAACGAATCCAGCAGCGGTTGAACTCAGAGGAGAAAACTAAATAGTAGAGAAAGTTTTAA
ACTGCAGAAAATTGGAGTGGATGGGTTCTGCCTTAAATTGGGAGGACTCCAAGCCGGGAAGGAAAATTCCTTTTC
CAACCTGTATCAATTTTTTACAACTTTTTCTGAAAGCAGTTTAGTCCATACTTTGCACTGACATACTTTTTCT
TCTGTGCTAAGGTAAGGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGAATGTGATGTTTCAGC
AGCAAACCTTGCAACAGACTGGCCTTCTGTTTTGTTACTTTTCAAAGGCCACATGATACAATTAGAGAATTCAC
CGCACAAAAAAGTTCCTAAGTATGTTAAATATGTCAAGCTTTTTAGGCTTGTACAAATGATTGCTTTGTTTT
CTAAGTCATCAAAATGTATATAAATTATCTAGATTGGATAACAGTCTTGCATGTTTATCATGTTACAATTTAATA
TTCCATCCTGCCCAACCCTTCTCTCCCATCCTCAAAAAAGGGCCATTTTATGATGCATTGCACACCCTCTGGGG
AAATTGATCTTTAAATTTTGAAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTTT
TATTCTGTGTATTTAGAATGAAGTCTTGAAAAAACTTTATAAAGACATCTTTAATCATTCCAAAATTGTGTCCG
TTTTCTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCTAATCCACCTACAAC
AAGAATTTCTTAAGCTTTCTTTTATTTGCATGAGAGAGCCACTACCAAGGCATGTTTTGTTATGCTGAAACTGGG
CTGCTGCATACTGCTAAATGGCACCTCTGGGATTGGCTTACCTGGGGATTTCTTGGTTTGTGAAAACAGGAGAGG
AGAAATATCTCATACAAGTGAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAAACCACACTCTGTCC
TATCTGTGTTAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCCAGTTTTCTTG
CCGTTCTGTAAGTGTATTATTCTTAGTGTGATTTTTTCCATTGGGATGTTTTTGATTGAACCTGTTTCATTTTGT
TTTGCTTGGGAGGAAAATAACAATTTTACTTTTTTCTTAAAAAATAAAAAA

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FIGURE 2325

MAENGKNCDQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLOYFSLEILVILKEWTSKLWHR
QSIVVSFLLLLAVLIATYYVEGVHQYYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPFIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMARAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLVQKVGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIK
MHIQKIFVITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPOGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRLNSEEKTK

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FIGURE 2326

ACTCAGATCGCTTCTTGTTGGTATGTGTAGCGGCAGTGGCCGCCGGCGGAGCAGTCTGAGCCCGACGATGAGGCC
GGGGACGGGAGCTGAGCGTGGAGGCCTCATGATGGGGCACCCCTGGCATGCATTATGCCCCAATGGGAATGCACCC
TATGGGTCAGAGAGCGAATATGCCTCCTGTACCTCATGGAATGATGCCGCAGATGATGCCCCCTATGGGAGGGCC
ACCAATGGGACAAATGCCTGGAATGATGTCGTCAGTAATGCCTGGAATGATGATGTCTCATATGTCTCAGGCTTC
CATGCAGCCTGCCTTACCGCTAAACTAAACGGATATTCACCTCTGAAGTGGGATAAATGAAGATGTGGAGTTTCAT
GTTTCATGTAGGGCAGGTTTTTGCCACTATAGTGAGTTTTGGTACCATACTTGAAAAAGTTGGCTTTCAGAGGGTT
TTGGTTTCCAGAATTGTGGGTAAAGGATTGAGGACCTTGTGTACAGTTGGTGACCATATAACATTTAACTACTC
CCGTAGTCTCGGTTGCTGATCTCTTTTACAATTTATAGCAAGCTCGGGGAACTGAGACCACTAAAAGTTTTGCTA
AGAATATGAGTCAGAGGCTTGAGGATTATGCATAGCAGCCAGGAGTAAATAGTATGGATGTAGCAGCAGGTACAG
CATCTGGTGCAAAATCAATGTGGACTGAACATAAATCACCTGATGGAAGGACTTACTACTACAACACTGAAACCA
AACAGTCTACCTGGGAGAAACCAGATGATCTTAAACACCTGCTGAGCAACTCTTATCTAAATGCCCCTGGAAGG
AATACAAATCAGATTCTGGAAAGCCTTACTATTATAATTCTCAAACAAAAGAATCTCGCTGGGCCAAACCTAAAG
AAGTTGAGGATCTTGAAGGATACCAGAATACCATTGTTGCTGGAAGTCTTATTACAAAATCAAACCTGCATGCAA
TGATCAAAGCTGAAGAAAGCAGTAAGCAAGAAGAGTGACCAACAACATCAACAGCCCCAGTCCCTACAACAGAAA
TTCCGACCACAATGAGCACCATGGCTGCTGCCGAAGCAGCAGCTGCTGTTGTTGCAGCAGCAGCAGCGGCAGCAG
CAGCAGCAGCTGCAGCCAATGCTAATGCTTCCACTTCTGCTTCTAATACTGTCAGTGGAACTGTTCCAGTTGTTT
CTGAGCCTGAAGTTACTTCCATTGTTGCTACTGTTGTAGATAATGAGAATACAGTAACCTATTTCACTGAGGAAC
AAGCACAACTTACTAGTACCCCTGCTATTTCAGGATCAAAGTGTGGAAGTATCCAGTAATACTGGAGAAGAAACAT
CTAAGCAAGAACTGTAGCTGATTTTACTCCAAAAAAGAAGAGGAGGAGCCAACCAGCAAAGAAAACATACA
CTTGAATACAAAGGAAGAGGCAAAGCAAGCTTTTAAAGAATTATTGAAAGAAAAGCGGGTACCATCGAATGCTT
CATGGGAGCAGGCTATGAAAATGATTATTAATGATCCACGATACAGTGCTTTGGCAAAGTTAAGTGAAAAAAGC
AAGCCTTTAATGCCTATAAAGTCCAGACAGAAAAA

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FIGURE 2327

MDVAAGTASGAKSMWTEHKSPDGRYYYYNTETKQSTWEKPDDLKTPAEQLLSKCPWKEYKSDSGKPYYYNSQTK
SRWAKPKELEDLEGYQNTIVAGSLITKSNLHAMIKAEESKQEECTTTSTAPVPTTEIPTTMSTMAAAEAAA
AAAAAANANASTSASNTVSGTVPVPEPEVTSIVATVVDNENTVTISTEEQAQLTSTPAIQDQSVEVS
SNTGEETSKQETVADFTPKEEEESQPAKKTYTWNTKEEAKQAFKELLKEKRVPSNASWEQAMKMIINDPRYSAL
AKLSEKKQAFNAYKVQTEKKKK

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FIGURE 2328A

CGGCGCAGGCGGCGGCGTCCGAGGAGATTTAATCCAGAGACTGACTTCACTATAGAACCCACAGTTGTATCAATG
GTTGGGGAAAGATAGTGGCAACAGGCAAAGGAGAAACAGCTCTGACATACAAAGAAAATGAGTATGCTAAAGCCA
AGTGGGCTTAAGGCCCCACCAAGATCCTGAAGCCTGGAAGCACAGCTCTGAAGACACCTACGGCTGTTGTAGCT
CCAGTAGAAAAAACCATATCCAGTGAAAAAGCATCAAGCACTCCATCATCTGAGACTCAGGAGGAATTTGTGGAT
GACTTTCGAGTTGGGGAGCGAGTTTGGGTGAATGAAATAAGCCTGGATTTATCCAGTTTCTTGGAGAAACCCAG
TTTGACACCAGGCCAGTGGGCTGGAATTGTTTTAGATGAACCCATAGGCAAGAACGATGGTTCGGTGGCAGGAGTT
CGGTATTTCCAGTGTGAACCTTTAAAGGGCATATTTACCCGACCTTCAAAGTTAACAAGGAAGGTGCAAGCAGAA
GATGAAGCTAATGGCCTGCAGACAACGCCCGCCTCCCGAGCTACTTCACCGCTGTGCACCTTCTACGGCCAGCATG
GTGTCTTCCCTCCCCCTCCACCCCTTCAAACATCCCTCAGAAACCATCACAGCCAGCAGCAAAGGAACCTTCAGCT
ACGCCTCCGATCAGCAACCTTACAAAACTGCCAGTGAATCTATCTCCAACCTTTAGAGGGCTGGCTCAATCAAG
AAAGGAGAAAGAGAGCTCAAAATCGGAGACAGAGTATTGGTTGGTGGCACTAAGGCTGGTGTAGTCCGGTTTCTT
GGGGAGACCGACTTTGCCAAGGGGGAGTGGTGTGGCGTGGAGTTAGATGAGCCACTTGGGAAGAATGATGGCGCT
GTTGCTGGAACAAGGTATTTTCAAGTGTCAACCCAAATATGGCTTGTTCGCTCCTGTCCACAAAGTTACCAAGATT
GGCTTCCCTTCCACTACACCAGCCAAAGCCAAAGGCCAACGCAGTGAGGCGAGTGATGGCGACCACGTCCGCCAGC
CTGAAGCGCAGCCCTTCTGCCTCTTCCCTCAGCTCCATGAGCTCAGTGGCCTCCTCTGTGAGCAGCAGGCCCAGT
CGGACAGGACTATTGACTGAAACCTCCTCCCGTTACGCCAGGAAGATCTCCGGTACCACTGCCCTCCAGGAGGCC
CTGAAGGAGAAGCAGCAGCACATTGAGCAGCTGCTGGCGGAACGGGATCTGGAGAGGGCGGAGGTGGCCAAGGCC
ACGAGCCACGTGGGGGAGATAGAGCAGGAGCTAGCTCTGGCCCCGGGACGGACATGACCAGCATGTCTGGAATTG
GAAGCCAAAATGGACCAGCTGCGAACAATGGTGAAGCTGCTGACAGGGAGAAGGTGGAGCTTCTCAACCAGCTT
GAAGAGGAGAAAAGGAAGGTTGAGGACCTTCAAGTTCCGGGTTGAAGAAGAATCAATTACCAAGGTGATCTTGAG
ACGCAGACCAAATGGAGCATGCCCGCATTAAAGGAGCTTGAACAGAGCCTGCTCTTTGAAAAGACCAAAGCTGAC
AAACTCCAGAGGGAGTTAGAAGACACTAGGGTGGCTACAGTTTTCAGAAAAGTCACGTATAATGGAACCTGGAGAAA
GACCTAGCATTGAGAGTACAGGAAGTAGCTGAGCTCCGAAGAAGGCTAGAGTCCAATAAGCCTGCTGGGGATGTG
GACATGTCACTTTCCCTTTTGCAAGAGATAAGCTCTTTGCAAGAAAAGTTAGAAGTCACCCGTACTGACCACCAG
AGAGAAATAACTTCTCTGAAGGAGCATTTTGGAGCCCCGGGAAGAAAACCTCATCAGAAGGAGATAAAGGCTCTGTAT
ACCGCCACGGAAAAGCTTTCCAAAGAGAACGAGTCATTGAAAAGCAAGCTGGAGCATGCCAACAAAGAGAACTCA
GATGTGATAGCTCTATGGAAGTCCAACTGGAGACTGCCATCGCATCCCACCAGCAGGCGATGGAAGAAGTGAAG
GTATCTTTCAGCAAAGGGCTTGGAAACAGAGACGGCAGAATTTGCTGAACTAAAAACACAAATAGAGAAAATGAGA
CTAGATTACCAACACGAAATAGAAAATTTGCAGAATCAACAAGACTCTGAACGGGCTGCCCATGCTAAAGAGATG
GAAGCCTTGAGGGCTAAACTGATGAAAGTTATTAAAGAAAAGGAAAACAGTCTGGAAGCCATCAGGTGCAAACTG
GACAAAGCAGAAGACCAGCATCTCGTAGAAATGGAAGACACGTTAAACAAATTACAGGAAGCTGAAATAAAGGTA
AAGGAGCTAGAGGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTATTGATAATTTTACATCACAGCTCAAG
GCTACTGAAGAAAAGCTCTTGGATCTTGATGCACTTCGGAAAGCCAGTTCCGAAGGTAAATCGGAAATGAAGAAA
CTTAGACAGCAGCTTGAGGCAGCTGAGAAACAGATTAAACATTTAGAGATTGAAAAGAATGCTGAAAGTAGCAAG
GCTAGTAGCATTACCAGAGAGCTCCAGGGGAGAGAGCTAAAGCTTACTAACCTTCAGGAAAATTTGAGTGAAGTC
AGTCAAGTGAAAGAGACTTTGGAAAAAGAACTTCAGATTTTGAAAGAAAAGTTTGCTGAAGCTTCAGAGGAGGCA
GTCTCTGTTTCAGAGAAGTATGCAAGAACTGTAATAAGTTACACCAAAGGAGGAACAGTTTAACATGCTGTCT
TCTGACTTGGAGAAGCTGAGAGAAAACCTTAGCAGATATGGAGGCAAAATTTAGAGAGAAAAGATGAGAGAGAAGAG
CAGCTGATAAAGGCCAAAGGAAAAAAGCTGGAAAATGACATTGCAGAAAATAATGAAGATGTCAGGAGATAACTCTTCT
CAGCTGACAAAAATGAACGATGAATTACGTCTGAAAGAAAAGAGATGTAGAAGAATTACAGCTAAAACCTTACAAAG
GCTAATGAAAATGCAAGTTTTCTGCAAAAAAGTATTGAGGACATGACTGTCAAAGCTGAACAGAGCCAGCAAGAA
GCAGCTAAAAAGCATGAGGAAGAAAAGAAAAGAAATGGAGAGGAAATTGTCGGACCTGGAAAAGAAAATGGAAACA
AGCCACAACCAAGTGTGAGGAGCTGAAAGCCAGGTATGAGAGAGCCACTTCTGAGACAAAAACCAAGCATGAAGAA
ATCCTACAGAACCTCCAGAAGACGCTGCTGGACACAGAGGACAAGCTGAAGGGCGCACGGGAGGAGAACAGTGGC
TTGCTGCAGGAGCTGGAGGAGCTGAGAAAGCAAGCCGACAAAGCCAAAGCTGCTCAAACAGCGGAAGATGCCATG
CAGATAATGGAACAGATGACCAAAGAGAAGACTGAGACTCTGGCCTCCTTGGAGGACACCAAGCAAACAAATGCA
AAACTACAGAATGAATTGGACACACTTAAAGAAAACAACCTTGAAAAATGTGGAAGAGCTGAACAAATCAAAGAA
CTCCTGACTGTAGAGAATCAAAAAATGGAAGAATTTAGGAAAGAAATAGAAACCTTAAAGCAGGCAGCAGCTCAG

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FIGURE 2328B

AAGTCCCAGCAGCTTTCAGCGTTGCAAGAAGAGAACGTTAACTTGCTGAGGAGCTGGGGAGAAGCAGGGACGAA
GTCACAAGTCATCAAAAGCTGGAAGAAGAAAGATCTGTGCTCAATAATCAGTTGTTAGAAATGAAAAAAGAGAA
TCCAAGTTTCATAAAAGACGCAGATGAAGAGAAAGCTTCCTTGCAAGAAATCCATCAGTATAACTAGTGCCTTACTC
ACAGAAAAGGATGCCGAGCTGGAGAAACTGAGAAATGAGGTACAGTGCTCAGGGGAGAAAACGCCTCTGCCAAG
* TGCATTTCAGTTGTTTCAGACTCTAGAGTCTGATAAGGTGAAGCTCGAGCTCAAGGTAAAGAACTTGGAGCTT
* TCAAAGAAAACAAGAGGCAGCTCAGCAGCTCCTCAGGTAATACAGACACTCAGGCAGACGAGGATGAAAGA
* TAGGAGAGTCAGATTGATTTCTTAAATTTCAGTAATAGTGGACCTTCAAAGGAAGAATCAAGACCTCAAGATG
AAGGTGGAGATGATGTCAGAAGCAGCCCTGAATGGGAACGGGGATGACCTAAACAATTATGACAGTGATGATCAG
* AAACAGTCCAAGAAGAAACCTCGCCTCTTCTGTGACATTTGTGACTGCTTTGATCTCCACGACACAGAGGAT
* TCTACCCAGGCACAGATGTCAGAGGACCCCTCCCATTCACACACCATGGCAGTCGGGGTGAGGAACGCCCA
* GTGAAATCTGTGAGATGTTTGGACACTGGGCCACCAACTGCAATGACGACGAAACCTTCTGATGAAGCCTC
* TGGAGAAGTGGGCTTGCTCAGACGCACTCGCATTGACACAACGTAACACCAGCATTGTGTGTGTCAGACTTCA
* AGAACTCATGTTATTTTTTAACCCCGTCAACAAATCTAGGAAAATATTTTGATCTTCAACAAATTGCCCTTTA
GTCTCCCGTATGAGTTAGAATAATAAATATTTAGTAGGTGAGTTTTACCTCGAATTTTGTTTTCTTGATTTTT
ACGTTTGAAGACATTGCACCAGATGCCATTACATTTATTGGCCCCCGACCTTGTAGAAAAACCCCTACCCTCAC
AATACCTTATTTAAGTAACTTTAAATTATGCCGTTACTTTTCATATTTGCACCTAAGATATTTCCAGGCTGCATT
TGTATATTTAGATTTTTTGGTTAAGCTTTGACACTGGAATGAGTTGAAAAAATGTGCCATTTTGCATTTTCATCT
ACTCATTTAAAGTATTTTTATTCTTATTCAAAGAAATATCTGAGCTCTTTGCACTACCTGTTATCAGTAGTGCCTT
TACTTCAGGCTTGATAATACTTAGGTGTGATTATAAAATCATGAAGCAGGTAAAGGGAGGGGCAAGCCCCAACT
GCTGTGGGGACATTTTATAATCTATATGCTGCACCCACTTAATCTACTGTGGTGTTTTGTATTAGTTTTGCAT
AATTTTCAGCTTCTATATATTGTATGTATATATTTTTTAAAAATCTATATTTGGGAAAAAACATACACAATGTG
TCTTTCTTTTTTGACATTTACCTTTTTGAAAAAGAAAACACTTAAATGATCATTAGGACATAACAGACTAGGCC
AGACATAGCATCTTGTGGCTTTGCAACCATTTTCATTTGTTTGTCTTTTCTTTTCTTACCAGATTTAAATA
AAAGGAGGAATTTTCTCCAATTTTTTTTTCTTCTCTGGCAGGTATCCCCAGCAGTCAATTAACAATAAGCCAGT
ATAAAACACCTAAATAACCAATCTACAATCTCCCTTACAAGTTTTTTTACTGTTTTTAGATGAATGTACGATGA
GAAATTCACGTTAATAATTCTGGATTTTCTTATCACAAAAAGAAAAATGAAGGACCTCAAAGCACCTGAACAGT
TTATCGACCAGTTTGAATCTATTTATCTTCATTTGAATGTCTTCTAGATATGTAAAAAGTCATAAAATGTATCTT
CCATGCTACATGTACAATAAGAACTTCTATAATTGTATATATGCCCTTGATGTATTTTCCCCTCAAGATTATCAA
CTGTGTGTTTCGACAGTGAATATTCAATCTGGTACCAGTTGAAATTTTTGGTTATAAATGTAATACGAATTGTTTC
ACAAACAGAAAACATGTAAAGCAGTATTAAAAATTTGGCCAAACAAGTGTCTGTATCTACTTTTAATAAATGGTT
ATTCTTT

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FIGURE 2329

MSMLKPSGLKAPT KILKPGSTALKTPTAVVAPVEKTISSEKASSTPSSETQEEFVDDFRVGERVWVNGNKP GF IQ
FLGETQFAPGQWAGIVLDEPIGKNDGSVAGVRYFQCEPLKGIFTRPSKLTRKVQAEDEANGLQTT PASRATSPLC
TSTASMVSSSPSTPSNIPQKPSQPAAKEPSATPPISNLTKTASESISNLSEAGSIKKGERELKIGDRVLVGGTKA
GVVRFLGETDFAKGEWCGVELDEPLGKNDGAVAGTRYFQCQPKYGLFAPVHKVTKIGFPSTTPAKAKANAVRRVM
ATTSASLKRSPTSASSLSSMSSVASSVSSRPSRTGLLTETSSRYARKISGTTALQEALKEKQOHIEQLLAERDLER
AEVAKATSHVGEIEQELALARDGHDQHVLELEAKMDQLRTMVEAADREKVELLNQLEEEKRKVEDLQFRVEEESI
TKGDLETQTKLEHARIKELEQSLLFEKTKADKLQRELEDTRVATVSEKSRIMELEKDLALRVQEVAE LRRRLESN
KPAGDVMSLSLLQEISSLQEKLEVTRTDHQREITSLKEHFGAREETHQKEIKALYTATEKLSKENESLKS KLEH
ANKENS DVIALWKS KLETAIASHQQAMEELKVFSKGLGTETA EFAELKTQIEKMRLDYQHEIENLQNNQD SERA
AHAKEMEALRAKLMKVIKEKENSLEAIRSKLDAEDQHLVEMEDTLNKLQAEIKVKELEVLQAKCNEQTKVIDN
FTSQLKATEEKLLDLDALRKASSEKSEMKKLRQQLEAAEKQIKHLEIEKNAESSKASSITRELQGRELKL TNLQ
ENLSEVSQVKETLEKELQILKEKFAEASEEAVSVQRSMQETVNLKHQKEEQFNMLSSDLEKLREN LADMEAKFRE
KDEREEQLIKAKEKLENDIAEIMKMSGDNSSQLTKMNDLRLKERDVEELQLKLTKANENASFLQKSIEDMTVKA
EQSQQEAAKKHEEEKELERKLS DLEKKMETSHNQCELKARYERATSETTKTKHEEILQNLQKTL LDDTEDKLKGA
REENSGLLQELEELRKQADKAKAAQTAEDAMQIMEQMTKEKTETLASLEDTKQTNAKLQNELDTLKENNLKNVEE
LNKSKELLTVENQKMEEFRKEIETLKQAAAQKSQQLSALQEENVKLAELGRSRDEVTS HQKLEEERSVLNNQLL
EMKKRESKF IKDADEEKASLQKSISITSALLTEKDAELEKLRNEVTVLRGENASAKSLHSVVQTLES DKKVLELK
VKNLELQLKENKRQLSSSSGNTDTQADEDERAQESQIDFLNSVIVDLQRKNQDLKMKVEMMSEAA LNGNGDDLNN
YDSDDQEQQSKKKPRLFCDICDCFDLHDTEDCPTQAQMSEDPPHSTHHGSRGEERP YCEICEMFGHWATNCNDDE
TF

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FIGURE 2330A

GGTCTCACCATGGAGCGGAAAGTGCTTGCGCTCCAGGCCCGAAAAGAAAGGACCAAGGCCAAGAAGGACAAAGCC
CAAAGGAAATCTGAAACTCAGCACCGAGGCTCTGCTCCCCACTCTGAGAGTGATCTACCAGAGCAGGAAGAGGAG
ATTCTGGGATCTGATGATGATGAGCAAGAAGATCCTAATGATTATTGTAAAGGAGGTTATCATCTTTGTGAAAATT
GGAGATCTATTCAATGGGAGATACCATGTGATCCGAAAGTTAGGCTGGGGACACTTTTCAACAGTATGGTTATCA
TGGGATATTTCAGGGGAAGAAATTTGTGGCAATGAAAGTAGTTAAAAGTGCTGAACATTACACTGAAACAGCACTA
GATGAAATCCGGTTGCTGAAGTCAGTTCGCAATTCAGACCCTAATGATCCAAATAGAGAAATGGTTGTTCAACTA
CTAGATGACTTTAAATATCAGGAGTTAATGGAACACATATCTGCATGGTATTTGAAGTTTTGGGGCATCATCTG
CTCAAGTGGATCATCAAATCCAATTATCAGGGGCTTCCACTGCCTTGTGTCAAAAAAATTATTTCAGCAAGTGTTA
CAGGGTCTTGATTATTTACATACCAAGTGCCGTATCATCCACACTGACATTAAACCAGAGAACATCTTATTGTCA
GTGAATGAGCAGTACATTTCGGAGGCTGGCTGCAGAAGCAACAGAATGGCAGCGATCTGGAGCTCCTCCGCCCTCC
GGATCTGCAGTCAGTACTGCTCCCCAGCCTAAACCAGCTGACAAAATGTCAAAGAATAAGAAGAAGAAATTGAAG
AAGAAGCAGAAGCGCCAGGCAGAAATTACTAGAGAAGCGAATGCAGGAAATTGAGGAAATGGAGAAAGAGTCGGGC
CCTGGGCAAAAAAGACCAACAAGCAAGAAGAATCAGAGAGTCTGTGAAAGACCCTTGAAAGAGAACCCACCT
AATAAATGACCCAAGAAAAACTTGAAGAGTCAAGTACCATTGGCCAGGATCAAACGCTTATGGAACGTGATACA
GAGGGTGGTGTCAGCAGAAATTAATTGCAATGGAGTGATTGAAGTCATTAATTATACTCAGAACAGTAATAATGAA
ACATTGAGACATAAAGAGGATCTACATAATGCTAATGACTGTGATGTCCAAAATTTGAATCAGGAATCTAGTTTC
CTAAGCTCCCCAAATGGAGACAGCAGCACATCTCAAGAAACAGACTCTTGTACACCTATAACATCTGAGGTGTCA
GACACCATGGTGTGCCAGTCTTCCTCAACTGTAGGTGAGTCATTGAGTGAACAACACATTAGCCAACCTTCAAGAA
AGCATTTCGGGCAGAGATACCCTGTGAAGATGAACAAGAGCAAGAACAATAACGGACCACTGGACAACAAAGGAAAA
TCCACGGCTGGAATTTTTCTTGTTAATCCCTTGAGCCAAAAAATGCAGAAAAGCTCAAGGTGAAGATTGCTGAC
CTTGGAATGCTTGTGTCACAAACATTTCACTGAAGATATTCAAACAAGGCAATATCGTTTCCTTGGAAGTTCTA
ATCGGATCTGGCTATAATACCCCTGCTGACATTTGGAGCACGGCATGCATGGCCTTTGAACTGGCCACAGGTGAC
TATTTGTTTGAACCTCATTTCAGGGGAAGAGTACACTCGAGATGAAGATCACATTGCATTGATCATAGAATTCTG
GGGAAGGTGCCTCGCAAGCTCATTGTGGCAGGAAAATATTCCAAGGAATTTTTACCAAAAAAGGTGACCTGAAA
CATATCACGAAGCTGAAACCTTGGGGCCTTTTTGAGGTTCTAGTGGAAGATGAGTGGTTCGAGGAAGAGGCA
GCTGGCTTCACAGATTTCTTACTGCCCATGTTGGAGCTGATCCCTGAGAAGAGAGCCACTGCCGCCGAGTGTCTC
CGGCACCCTTGGCTTAACCTCCTAAGCCCCCTGCCAGCACACAGCAGAGATCACACACTGACCCTCCGCCCTTCC
CCTTCAAGCATTTTCTCTTCCCTTTTCAGGGTGAAGCTCTTCTTCAAGAGTTTCTAGATCTTGTTTTTTTTTT
AATCCAACATGTTCAATTTGGGTTTGCTTACTTGACCCTGTGGAGATCCCCACAGCCATTGGGCATCCTAGGTGAA
TTTGGCCTTGGTTGGGCTCTGCCAAAGACTAATGGACTAAAATGTGAAACAGCCTCTTGCCCTGTACCTTTTCTT
CCCATTAGGACATCCTTTAAATTATAAGCATCCTTTTTGAAAAGAGCTATGAAGGTGTATGAGCCCATCCTTTTA
TTCATTGACTCTAAGAGTCAAATTTCTAGTGCATATCCTATTGCCAGCATAAGGATGAGGAGGGGGAAAGGGTC
TTAATTCTATGTACAGCAGAGACATTAAACTTGCTGTGTCCGGGCTGCATCATCTTCTGGACTGTTTCTGTGTG
TCTCTGTGTTACATTTTTTCTGCAACTTTTAAGCTACTGTCTTTTTTAAATAGCTATATGAACACCAAATTTG
GGTACCATTTTATCACTGTTCAAAGCACTGTCAAATTCCTTTATCCTTTAATAGTTAAGATCTTTGAATCTTCA
GTCTGATTTTTAATGTAAGCAAAAAACAGAACCATTGAATAGTAATTTCTTGAGAACCTCAGGTGTTCTATAAACA
GTCCTTTCTGTATGTCTTCTATTACCCTAAGACCAGAGTTATTTTGGTTGGTTGTTTTGTTTTATTTTTGTTT
TTGTATCCATGGCTGGCACTTTACTCATTGCATTGAGTTTATTGCCCCATAACTAAAGGATCAGGATGATGGTA
GAACGGAGATCTGGGTTTCAGAGCTTTCCCATTTAAGAAAAATAGATCTTGAGATTCTGATTCTTTTCCAAACAG
TCCCTTGCTTTTCATGTACAGCTTTTTCTTTACCTTACCCAAAATCTGGCCTTGAAGCAGTTTCTCTATGGCT
TTGCCCTTCTGATTTTCTCAGAGGCTCGAGTCTTTAATATAACCCCAAATGAAAGAACCAAGGGGAGGGGTGGGA
TGGCACTTTTTTTGTTGGTCTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTG
TCTCTGCTGCTATTTCCCTACATAATGTCAATTTTTTAACCATAATTTTGACATGATTGAGATGTACTTGAGGCTT
TTTTGTTTTAATTGAGAAAAGACTTTGCAATTTTTTTTTTAGGATGAGCCTCTCCTAGACTTGACCTAGAATATT
ACATATTCCTCCAGTAAGTAATACTGAAGAGCAAAAGAGAGGCAGGATTGGGGTCACAGCCGCTTCTTCAGCATG
GACCAAGTGGGCCCTTGGGGATTGCAGCGTTCTCGAAGTGGCTGTAGGACTCGAATTTACAGAAAGCCACAGAGGT
GCAACTTGAGGCTCTGCTAGCAAGCCACCAGTGAGGCTATTGGGTAACCACCTTCTATACAGGAGATTGGAATC
TACTTTGTCATTTATCCACCACAGTGACAAAGGAAAAGTGGTGCCGTTATGCAATCCATTTAACTCATAAACATA

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FIGURE 2330B

TTACTCTGAGTAACTGGCCAGCCATTTCATCGGATCCTTCATTGGGTACTCCTGAAATCAGACATGTTCTGTAGA
AAGAATTTTAAGTTAGGCTTTCTATGCACCTATCAAGAATCAAGAGAATAGATTGTATCAAACAACGGCAGGGAA
ATCCTTCAGCAATTCTAATCCACTTTGGGTTTTTCAGCTGTTTTTACATCTAAAGCAATAGACTAGAACTGAATTA
TCTTCTACATAGTAAAATCACAATTGTGGAATTACAGGAATTCTGGTGATATTAAGGTGAAATAACAAAACACAA
AAGGCCCTATTTTAACAGTTGATGTGACAGTAAGTTTTAATAGAACCTGTAACCTTCATTTTGAAATGCTTCTCC
ACCAAATAAGGGCTTTTTCCCTATTTAAGGAGCCAGATGGATTGAAAGATGTGGAAATAGGCAGCTGTAGATCT
TGATCTTCAGGTACCCCATGTACCTTTATTGAGCTTAATTATAATACTGTCAAATTGCCACGATCTCACTAAAG
GATTTCTATTTGCTGTCAGTTAAAAATAAGCCCTAAATACATTTTATTCTTTCTACTGAGGGCATTGTCTGTT
TTCTTTGTAAATGCGGTACAATAAACAAATTATTTAATAACCTA

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FIGURE 2331

MERKVLALQARKKRTKAKKDKAQRKSETQHRGSAPHSESDLPEQEEEILGSDDDEQEDPNDYCKGGYHLVKIGDL
FNGRYHVIRKLGWGHFSTVWLSWDIQGKKFVAMKVVKSAEHYTETALDEIRLLKSVRNSDPNDPNREMVVQLDD
FKISGVNGTHICMVFEVLGHHLLKWI IKSNYQGLPLPCVKKI IQQVLQGLDYLHTKCRIIHTDIKPENILLSVNE
QYIRRLAAEATEWQSRGAPPPSGSAVSTAPQPKPADKMSKNKKKKLKKKQKRAELLEKRMQEIEEMEKESESGPGQ
KRPNKQEESESPVERPLKENPPNKMTQEKLEESSTIGQDQTLMERDTEGGAAEINCNGVIEVINYTQNSNNETLR
HKEDLHNANDCDVQNLNQESSFLSSQNGDSSTSQETDSCPTITSEVSDTMVCQSSSTVGQSFSEQHISQLQESIR
AEIPCEDEQEQEHNGLDNKGKSTAGNFLVNPLEPKNAEKLKVKIADLGACWHKHFTEDIQTRQYRSLEVLIGS
GYNTPADIWSTACMAFELATGDYLFEPHSGEEYTRDEDHIALIIELLGKVPRKLIVAGKYSKEFFTKKGDLKHIT
KLKPWGLFEVLVEKEYEWSQEEAAGFTDFLLPMLELIPEKRATAAECLRHPWLNS

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FIGURE 2332

TTTCCTCTTTCTCTAAGAGTCTCTCTCTCCCTTTCCCTCTCTCTCCCCCAATCTGTCTTTCTAGCATGTTGCC
TTTTTCAACCACATTTGTGTTTCAGGTGTAGAGAGGAGAGAGAGTGAACAGGGAGCGGGGCTTTTGTCTGTTGGT
CTCCCTGGACTGAAGAGAGGGAGAATAGAAGCCCCAAGACTAAGATTCTCAAAATGGTTTTATTACCCAGAACTCTT
TGTCTGGGTCAAGAACCATTTTCCAAACAAGGACATGGAGGGAAGGCTTCCTAAGGGAAGACTTCCTGTCCC
AAAGGAAGTGAACCGCAAGAAGAACGATGAGACAAACGCTGCCTCCCTGACTCCACTGGGCAGCAGTGAACCCG
CTCCCCAAGAATCAGTTACCTCCACTTTTTTTTAAATCGTAACACCTCCATTTGTATTACATATGGTGTATGGGTAT
TGATGAGGTCATGGTATCATATATGGGATTTTTTCTGTGTAAATCATCAAGTATAAGAAGAACTATGGGACTC
TGAGCCTTGCTTTAGAGAATTTACAGTGGACAAATAGGTGTCTCATCAAACCAGTTTTTAATCATTCTGACTCAAGT
GAAAACGCTCAGAATTTACACTGTGAATCCACGTTTACAACCCTTACAGGTGGGCCTTCAGGCCTGGTTCGCTA
CAACAATGTCTTCCACAACCTCAAACCTCCACCGCGCTCACACAACCGGTCCACTCCTGCCTTTTCACTCACACAG
CTCCCGACTGCTTCTTGCAGAGGCTGAGAGTCCCCCCCCCCTTTTTTTTTTCAATTTAGATGTAACAAACCTAG
TAGTTTATGTTTCATCAATTGTCTGTATATCTCTATATTTTATCCATGTACTCTTTTGATGTATAGAAGTAGTTG
AAACTCATTGTTTCCCTTGTGGTAAGTGACCGAGATGCTGCCACAGGACCTGAGACACTGATGAATGGTGCTATTT
TGGACTTTCAACATGCTCCTTGGCGAGGTAGCTCTGATGGAGTTATTTTTTATTTCCATGTTCTAAGAAGGTGTT
GGTACTCTGTTTTCCCTGAATGTTGTTCTCTAGACTGGATTGACTTGTTTTTCTTGTGTCTTCAGTGTGGCTTTCT
TCCTCAGTGTTGTAGGTTGAGCGAATGCTACCAGAGTGTGAGAGACCATTGTCTCGTTGGCTGGCGCTCACGGAC
ATGCAGTCACGGTAGCGGGAGCAATCACAAAACCTGTAATTTACTTACCAAATCTCTTCCCTTCCGTAGCCTCGCC
TGCCTGACTTAGAGAAAAGAAAAGCAATAATTTTACAGGCATTTTGAGGTGTCTCTTGGGTCTTTCTGTTTGAA
AGGATATTTGTGCAAAAAAAGAGCAAAACCGTTTTAAATAAACTCCCCCTGGAAAAAACCACAAACACTGGCAT
CTGAGTAGGAATATGAAAATGACACCTTTTCCAAATATTAAATTGGAAAACAAGGTCTACAAAATCATGATACTT
TTTTAAAGGCGAGCATTCTTTTTTTCGGCAATTTTGATAAGCAAGGTGTAGATTTACATTTTGTCTTGTCTCC
CAACGAAATGGATAAAACAAAATAAATTACCATCTACTCATGGAATGTTGTTGTGTTAGCCAGTCTGAAAGCCCA
CCTTAATTTTATATAACTGTCTTTAGCTCTTCTTTTGACAGGGCAGGCCTTGTCTGAACTGTTTCGCTTCTGA
CTGTTAAACACCGATGACGCATGCACTGCACTTCTTCGTTTTCTTCTTGCTCCCCCATTGGCCTGAGTTTCTTGT
GCATTACTCCTCTCCCTCCTTCGTTAGAATAGGTATATCAGCTGTGTAAATAGAGCAAGAAAACAGTATTCTGCA
TCTGTGGCATTATGTAGAGTTGCAGTTGTGTACTGCTGAAAATGCAGGCTTTTGTAACAGTGTGATCTTTACTG
ATGCACTCATGACAAGTACCCAATGTATTTTAGCTATTTTAGTAGTATTTGTTCAATAAATACGCAAGCTGTAAG
GTAACGTCTG

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FIGURE 2333

MVYYPELFVWVSQEPFPNKDMEGRLPKGRLPVPKEVNRKKNDETNAASLTPLGSSELRSPRISYLHFF

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FIGURE 2334

AAATTCTTATTCTTAGTGAGAGACTGTAGTTAAAAGGAAGGCTTTTAGAACTTGGGTTCAAGGAAGATGGAGATG
CGTCGGAAGCTCTTTGGCGGGGGTGAGGAAGTTCAGAAAGTGTGCATTTTCCTTCTGGCATTAGGTCTTGTCGG
TGTGATTTGGTGGTGCTTGGGTCATAAGCCTGATTAAAAATTCAGGGACATGTACCACGGCGGCCAAAGCGGAATT
AATTTTTTTATATGGGGACTGGAGCGCTGAAAAGTTGTTCTGACCAGGCTCTAATGAGAAATTCCTCTCTCCCC
AGGTTATGAAGACAGTATGGAGTTTCCAGACCATAGTAGACATTGCTACAGTGTCTGAGCGAGCAGAGACACCA
GGGTTTTCTTTGTGACTGCACTGTTCTGGTGGGAGATGCCAGTTCGAGCGCACCGAGCTGTACTGGCTTCATG
CAGCATGTATTTCCACCTCTTTTACAAGGACCAGCTGGACAAAAGAGACATTGTTTCATCTGAACAGCGACATTGT
TACAGCCCCCGCTTTTCGCTCTCCTGCTTGAATTCATGTATGAAGGGAACTCCAGTTCAAAGACTTGCCCATGA
AGACGTGCTAGCAGCTGCCAGTTATCTCCACATGTATGACATTGTCAAAGTCTGCAAAAAGAAGCTGAAAGAGAA
AGCCACCACGGAGGCAGACAGCACCAAAAAGGAAGAAGATGCTTCAAGTTGTTTCGGACAAAAGTCGAGAGTCTCTC
CGATGGCAGCAGCCACATAGCAGGCGATTTGCCCAGTGATGAAGATGAAGGAGAAGATGAAAAATTGAACATCCT
GCCCAGCAAAAGGGACTTGGCGGCCGAGCCTGGGAACATGTGGATGCGATTGCCCTCAGACTCAGCAGGCATCCC
CCAGGCTGGCGGAGAGGCAGAGCCACACGCCACAGCAGCTGGAAAAACAGTAGCCAGCCCCCTGCAGCTCAACAGA
GTCTTTGTCCAGAGGTCTGTACCTCCGTGAGGGATTCCGGCAGATGTTGACTGTGTGCTGGACCTGTCTGTCAA
GTCCAGCCTTTTCAAGGAGTTGAAAATCTGAACAGCTCTTATTTCTCTTCACAGGACGTGCTGAGAAGCAACCTGGT
GCAGGTGAAGGTGGAGAAAAGAGGCTTCCTGTGATGAGAGTGATGTTGGCACTAATGACTATGACATGGAACATAG
CACTGTGAAAGAAAAGTGTGAGCACTAATAACAGGGTACAGTATGAGCCGGCCCATCTGGCTCCCCTGAGGGAGGA
CTCGGTCTTGAGGGAGCTGGACCGGGAGGACAAAGCCAGTGATGATGAGATGATGACCCAGAGAGCGAGCGTGT
CCAGGTGGAGGGAGGCATGGAGAGCAGTCTGCTCCCCTACGTCTCCAACATCCTGAGCCCCGCGGGCCAGATCTT
CATGTGCCCCCTGTGCAACAAGGTCTTCCCCAGCCCCCACATCCTGCAGATCCACCTGAGCACGCACTTCCGCGA
GCAGGACGGCATCCGCAGCAAGCCCCGCCCGCATGTCAACGTGCCACGTGCTCGCTGTGTGGGAAGACTTTCTC
TTGCATGTACACCCTCAAGCGCCACGAGAGGACTCACTCGGGGGGAGAAGCCCTACACATGCACCCAGTGCGGCAA
GAGCTTCCAGTACTCGCACAACTGAGCCGCCATGCCGTGGTGACACCCGCGAGAAGCCGCACGCCTGCAAGTG
GTGCGAGCGCAGGTTACGCAGTCCGGGGACCTGTACAGACACATTCGCAAGTTCCACTGTGAGTTGGTGAACCTC
CTTGTCGGTCAAAAGCGAAGCACTGAGCTTGCTACTGTGAGAGACTGGACCTTAGAAGATAGCTCTCAAGAAGT
TTGGAAAATAATTTTATATATATATAAATAATATATATATATATACATATATATAAATAGATCTCTATATAGTTGT
GGTACGGTCTAAAAGCAGTCTTGTTTCTGGAATAAAAAGTTGGGATATTAAGTTGTTTTTGCACTTTAGAAT

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FIGURE 2335

MEFPDHSRHLQCLSEQRHQGFLCDCTVLVGDAQFRAHRAVLASCSMYFHLFYKDQLDKRDIVHLNSDIVTAPAF
ALLEFMYEGKLQFKDLP IEDVLAASYLHMYDIVKVCKKKLKEKATTEADSTKKEEDASSCSKVESLSDGSSH
IAGDLP SDEDEGEDEKLNILPSKRD LAAEPGNMWMRLP SDSAGIPQAGGEAEPHATAAGKTVASPCSSTESLSQR
SVTSVRDSADVDCVLDLSVKSSLSGVENLNSSYFSSQDVLRNLVQVKVEKEASCDESVDGTNDYDMEHSTVKES
VSTNNRVQYEP AHLAPLREDSVLRELDREDKASDDEMTPESERVQVEGGMESSLLPYVSNILSPAGQIFMCPLC
NKVFPSPHILQIHLSTHFREQDGIRSKPAADVNVPTCSLCGKTFSCMYTLKRHERTHSGEKPYTCTQCGKSFQYS
HNLSRHAVVHTREKPHACKWCERRFTQSGDLYRHIRKFHCELVNSLSVKSEALSLPTVRDWTLEDSSQELWK

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FIGURE 2336A

AGCGCCCGCCGCGTCCGGGGCCGCTGGTGCAGACGCCGCCGAGAGTTGTGAAGGGCGCGGGTGGGGGGCGC
TGCCGGCCTCGTGCGGTACGTTCTGTGCCGCGTCTGTCCAGAGCTGGGGCCGAGGAGCGGAGGCAAGAGGGGCAC
TATGGCAGACAAAGTTAGGAGGCAGAGGCCGAGGAGGCGAGTCTGTTGGGCCTTGGTGGCTGTGCTCTTGGCAGA
CCTGTTGGCACTGAGTGATACACTGGCAGTGATGTCTGTGGACCTGGGCAGTGAGTCCATGAAGGTGGCCATTGT
CAAACCTGGAGTGCCCATGGAAATTGTCTTGAATAAGGAATCTCGGAGGAAAAACACCGGTGATCGTGACCCTGAA
AGAAAATGAAAGATTCTTTGGAGACAGTGACGAAGCATGGCGATTAAAGAATCCAAAGGCTACGCTACGTTACTT
CCAGCACCTCCTGGGGAAGCAGGCAGATAACCCCATGTAGCTCTTTACCAGGCCCGCTTCCCGGAGCACGAGCT
GACTTTCGACCCACAGAGGCAGACTGTGCACTTTCAGATCAGCTCGCAGCTGCAGTTCTCACCTGAGGAAGTGTT
GGGCATGGTTCTCAATTATTCTCGTTCTCTAGCTGAAGATTTTGACAGAGCAGCCCATCAAGGATGCAGTGATCAC
CGTGCCAGTCTTCTTCAACAGGCCGAGCGCCGAGCTGTGCTGCAGGCTGCTCGTATGGCTGGCCTCAAAGTGCT
GCAGCTCATCAATGACAACACCGCCACTGCCCTCAGCTATGGTGTCTTCCGCCGAAAGATATTAACACCACTGC
CCAGAAATATCATGTTCTATGACATGGGCTCAGGCAGCACCGTATGCACCATTGTGACCTACCAGATGGTGAAGAC
TAAGGAAGCTGGGATGCAGCCACAGCTGCAGATCCGGGGAGTAGGATTTGACCGTACCCTGGGGGGCCTGGAGAT
GGAGCTCCGGCTTCGAGAACGCCTGGCTGGGCTTTTCAATGAGCAGCGCAAGGCTCAGAGAGCAAAGGATGTGCG
GGAGAACCCGCGTGCCATGGCCAAGCTGCTGCGTGAGGCTAATCGGCTCAAACCGTCTCAGTGCCAACGCTGA
CCACATGGCACAGATTGAAGGCCTGATGGATGATGTGGACTTCAAGGCAAAAGTGACTCGTGTGGAATTTGAGGA
GTTGTGTGCAGACTTGTGTTGAGCGGGTGCCCTGGGCCTGTACAGCAGGCCCTCCAGAGTGCCGAAATGAGTCTGGA
TGAGATTGAGCAGGTGATCCTGCTGGGTGGGGCCACTCGGGTCCCCAGAGTTCAGGAGGTGCTGCTGAAGGCCGT
GGGCAAGGAGGAGCTGGGGAAGAACATCAATGCAGATGAAGCAGCCGCCATGGGGGCAGTGTACCAGGCAGCTGC
GCTCAGCAAAGCCTTTAAAGTGAAAGCCATTTGTCTCCGAGATGCAGTGGTCTACCCCATCCTGGTGGAGTTCAC
GAGGGAGGTGGAGGAGGAGCCTGGGATTACAGCCTGAAGCACATAAACGGGTACTCTTCTCTCGGATGGGGCC
CTACCCTCAACGCAAAGTCATCACCTTTAACCCTACAGCCATGATTTCAACTTCCACATCAACTACGGCGACCT
GGGCTTCCCTGGGGCCTGAAGATCTTCGGGTATTTGGCTCCAGAACTGTACCACAGTGAAGCTAAAAGGGGTGGG
TGACAGCTTCAAGAAGTATCTGACTACGAGTCCAAGGGCATCAAGGCTCACTTCAACCTGGATGAGAGTGGCGT
GCTCAGTCTAGACAGGGTGGAGTCTGTATTTGAGACACTGGTAGAGGACAGCGCAGAAGAGGAATCTACTCTCAC
CAAACCTGGCAACACCATTTCCAGCCTGTTTGGAGGCGGTACCACACCAGATGCCAAGGAGAATGGTACTGATAC
TGTCCAGGAGGAAGAGGAGAGCCCTGCAGAGGGGAGCAAGGACGAGCCTGGGGAGCAGGTGGAGCTCAAGGAGGA
AGCTGAGGCCCCAGTGGAGGATGGCTCTCAGCCCCCACCCTGAACTAAGGGAGATGCAACCCCTGAGGGAGA
AAAGGCCACAGAAAAAGAAAATGGGGACAAGTCTGAGGCCAGAAACCAAGTGAGAAGGCAGAGGCAGGGCCTGA
GGGCGTCGCTCCAGCCCCAGAGGGAGAGAAGAAGCAGAAGCCCGCCAGGAAGCGGCGAATGGTAGAGGAGATCGG
GGTGGAGCTGGTTGTTCTGGACCTGCCTGACTTGCCAGAGGATAAGCTGGCTCAGTCGGTGCAGAACTTCAGGA
CTTGACACTCCGAGACCTGGAGAAGCAGGAACGGGAAAAAGCTGCCAACAGCTTGGAAGCGTTCATATTTGAGAC
CCAGGACAAGCTGTACCAGCCCGAGTACCAGGAAGTGTCCACAGAGGAGCAGCGTGAGGAGATCTCTGGGAAGCT
CAGCGCCGCATCCACCTGGCTGGAGGATGAGGGTGTGGAGCCACCACAGTGATGTTGAAGGAGAAGCTGGCTGA
GCTGAGGAAGCTGTGCCAAGGGCTGTTTTTTCGGGTAGAGGAGCGCAAGAAGTGCCCCGAACGGCTGTCTGCCCT
CGATAATCTCCTCAACCATTCAGCATGTTCTCAAGGGGGCCCGGCTCATCCAGAGATGGACCAGATCTTCAC
TGAGGTGGAGATGACAACGTTAGAGAAAGTCATCAATGAGACCTGGGCCTGGAAGAATGCAACTCTGGCCGAGCA
GGCTAAGCTGCCCCGCCACAGAGAAGCCTGTGTTGCTCTCAAAAGACATTGAAGCTAAGATGATGGCCCTGGACCG
AGAGGTGCAGTATCTGCTCAATAAGGCCAAGTTTACCAAGCCCCGGCCCCGGCCTAAGGACAAGAATGGGACCCG
GGCAGAGCCACCCCTCAATGCCAGTGCCAGTGACCAGGGGGGAGAAGGTATCCCTCCAGCAGGCCAGACTGAAGA
TGCAGAGCCCATTTGAGAACCTGAGAAAAGTAGAGACTGGATCCGAGCCAGGAGACACTGAGCCTTTGGAGTTAGG
AGGTCTTGAGCAGAACCTGAACAGAAAAGAACATCGACAGGACAGAAGCGGCCTTTGAAGAACGACGAAC**TATA**
ACCCCCACCTCTGTTTTCCCATTCATCTCCACCCCTTCCCCACCACTTCTATTTATTTAATCGAGGGTTG
GGGGAGGGGTTGGTCTCGCCCTCGGCTGGAGTTCTTTCTACCCCTGTGATTGGAGGTGTGGAGAAGGGGAAG
GGAGGGACAGCTCACTGGTTCCTTCTGCAGTACCTCTGTGGTTAAAAATGGAACTGTTCTCTCTCCCGACCCCA
CTCCCTGTTCCCTACCCATATAGGCCCTAAATTTGGGAAAAATCACTATTAATTTCTGAATCCTTTGCCTGTGGG
TAGGAAGAGAATGGCTGCCAGTGGCTGATGGGTCCCGGTGATGGGAAGGGTATCAGGTTGCTGGGGAGTTTCCAC
TCTTCTCTGGTGATTGTTCTCTCCCTCCCTTCTCTCCACCATGCGATGAGCATCCTTTACGGCCAGTGTCTGC

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FIGURE 2336B

AGAGCCTCAGTTACCAGGTTTGGTTTCTGAGTGCCTATCTGTGCTCTTTCCTCCCTCTGCGGGCTTCTCTTGCTC
TGAGCCTCCCTTCCCCATTCCCATGCAGCTCCTTTCCCCCTGGGTTTCCTTGGCTTCCTGCAGCAAATTGGGCAG
TTCTCTGCCCCCTTGCCATAAAGCCTGTACCTCTGGATTGGCGGAAGTAAATCTGGAAGGATTCTCACTCGTATTT
CCCACCCCTAGTGGCCAGAGGAGGGAGGGGCACAGTGAAGAAGGGAGCCCACCACCTCTCCGAAGAGGAAAGCCA
CGTAGAGTGGTTGGCATGGGGTGCCAGCATCGTGCAAGCTCTGTCTATAATCTGCATCTTCCCAGCAGCCTGGTAC
CCCAGGTTCCCTGTAACTCCCTGCCTCCTCCTCTCTTCTGCTGTTCTGCTCCTCCCAGACAGAGCCTTTCCCTCAC
CCCCTGACCCCTGGGCTGACCAAAATGTGCTTTCTACTGTGAGTCCCTATCCCAAGATCCTGGGGAAAGGAGAG
ACCATGGTGTGAATGTAGAGATGCCACCTCCCTCTCTCTGAGGCAGGCCTGTGGATGAAGGAGGAGGGTCAGGGC
TGGCCTTCCTCTGTGCATCACTCTGCTAGGTTGGGGGCCCCGACCCACCATACCTACGCCTAGGGAGCCCGTCC
TCCAGTATTCCGTCTGTAGCAGGAGCTAGGGCTGCTGCCTCAGCTCCAAGACAAGAATGAACCTGGCTGTGTCAG
TCATTTTGCTTTTTCCTTTTTTTTTTTTTTGGCCACATTGGCAGAGATGGGACCTAAGGGTCCCACCCCTCACCCCA
CCCCACCTCTTCTGTATGTTTGAATTCTTTCAGTAGCTGTTGATGCTGGTTGGACAGGTTTGAGTCAAATTGTA
CTTTGCTCCATTGTTAATTGAGAACTGTTTCAATAAAATATTCTTTTCTAC

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FIGURE 2337

MADKVRRRQRRRRVCWALVAVLLADLLALSDTLAVMSVDLGSESMKVAIVKPGVPM EIVLNKESRRKTPVIVTLK
ENERFFGDSAASMAIKNPKATLRYFQHLLGKQADNPHVALYQARFPEHELTFDPQRQTVHFQISSQLQFSPEEVL
GMVLNYSRSLAEDFAEQPIKDAVITVPVFFNQAERRAVLQAARMAGLKVQLINDNTATALS YGVFRRKDINTTA
QNIMFYDMGSGSTVCTIVTYQMVKKEAGMQPQLQIRGVGFDRTLGGLEME LRLRERLAGLFNEQRKGQRAKDVR
ENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAKVTRVEFEELCADL FERVPGPVQQALQSAEMSLD
EIEQVILVGGATRVPRVQEVL LKAVGKEELGKNINADEAAAAMGAVYQAAALSKAFKV KPFVVRDAVVYPILVEFT
REVEEEPGIHSLKHNRVLF SRMGYPYPQRKVITFNRYSHDFNFHINYGDLGFLGPEDLRVFGSQNLTTVKLKGVG
DSFKKYPDYESGKIKAHFNLD ESVGLSLDRVESVFETLVEDSAAEEESTLTKLGNTISSLFGGGTTPDAKENGTD T
VQEEEESPAEGSKDEPGEQVELKEEAEAPVEDGSQPPPEPKGDATPEGEKATEKENGDKSEA QKPSEKAEAGPE
GVAPAPEGEKKQKPARKRRMV EEIIGVELVVLDLPDLPEDKLAQSVQKLQDLTLRDLEKQEREKAANSLEAFIFET
QDKLYQPEYQEVSTEEQREEI SGKLSAASTWLEDEGVGATTVMLKEKLAELRKLCQGLFFRVEERKKWPERLSAL
DNLLNHSSMFLKGARLIP EMDQIFTEVEMTTLEKVINETWAWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDR
EVQYLLNKAKFTKPRPRPKDKNGTRAEPPLNASASDQGEKVIPPAGQTEDAEP ISEPEKVETGSEPGDTEPLELG
GPGAEPQKEQSTGQKRPLKNDEL

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FIGURE 2338

CCAAATTATTGTATCTCACAGTGTGGGGAAAAGGAAGAGAGATCAGATTGTTACTGTGTCTGTGTAGAAAGAAGT
AGACATAGGAGACTCCATTTTGTATGTACTAAGAAAAATTCTTCTGCCTTGAGATTCTGTTAATCTATAACCTT
ACCCCCCAACCCCGTGCTCTCTGAAACATGTGCTGTGTCTCTCAGAATTGCCTGTTTTTTGTGCTCCTCCGAGC
TCGCTGTTTCGTCGGGTTTTTTTACGTTTTAATTTCCAGGACTTGAAGTGCCTGCTCTGAAGAAGGAAAGCTC
TGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCACTGGAAGACCACTTCAGCAGTTTCGGACCTATCTCT
TGTGGTCGTTGTCAAGGACCGGGAGACTCAGCGGTCCAGGGGTTTTGGTTTTCATCACCTTCACCAACCCAGAG
TGTCTTCAGTTGCCATGAGAGCCATGAACGGAGAGTCTCTGGATGGTCGTGATCCGTGTGGATCATGCAGGC
AAGTCTGCTCGGGGAACCAAGAGGAGGTGGCTTTGGGGCCCATGGGCGTGGTTCGAGCTACTCTAGAGGTGGTGGG
CAGGGCTATGGGAGTGGCAGGTATTATGACAGTCGACCTGGAGGGTATGGATATGGATATGGACGTTCAGAG
ATAATGGCAGAAACCAAGGGTGGTTATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAACTGA

AAGAGACATGCACATAATATAGATACACAAGGAATAATTTCTGATCCAGGATCGTCCTTCCAAATGGCTGTATT
TATAAAGGTTTTTGGAGCTGCACTGAAGCATCTTATTTTATAGTATATCAACCTTTTGTTTTTAAATTGACCTGC
CAAGGTAGCTGAAGACCTTTTAGACAGTTCCCATCTTTTTTTTTTAAATTTTTCTGCCTATTTAAAGACAAATTA
TGGGACGTTTGTAGAACCTGAGTATTTTCTTTTTTACCAGTTTTTTAGTTTGAGCTCTTAGGTTTATTGGAGCTA
GCAATAATTGGTTCTGGCAAGTTTGGCCAGACTGACTTCAAAAAATTAATGTGTATCCAGGGACATTTTAAACC
TGTACACAGTGTATTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTATAAGAAATGTGCATCAAGCCAGCCTGA
CCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTGGCATGGTGGTGTACGCCTGTAATCCCA
GTGACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCTAAGATCGCGCCA
CTGTACTCCAGCCTGGACAACAGCGAGAGCTCCATCTCAAAAAAAGGAAATGTGTATCAAGAACATGATTAT
CCAGCGGTATTTTCTAATTCAGATCATCAAATGATTATATAGAAGAGTTGGCTTTAAATGTTTGCAATGTGCG
ATGTTGAGAATGGTATTTCTTCAGTTTTATTTTAGGATTTCTATAGTTTGATGATC

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FIGURE 2339

MSSEEGKLFVGGLNFNTDEQALEDFSSFGPISEVVVVKDRETQSRGFGFITFTNPEHASVAMRAMNGESLDGR
QIRVDHAGKSARGTRGGGFGAHGRGRSYSRGGGDQGYGSGRYYDSRPGGYGYGYGRSRDYNGRNQGGYDRYSGGN
YRDNYDN

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FIGURE 2340

AAAAGCAAGCCAGGAGGTGCTTGCGGCCGCTTCTAGTAGTTTCCAGGCGCTGCCGGGCGGCTGGCACTAAGCGGT
CCTGAGGCTGTGGCTACGGCTGCTCCGGAGCTGGTGGCGCCGCGATAGGAGAGCCGATGGCCAAGTGGGGTGAGG
GAGACCCACGCTGGATCGTGGAGGAGCGGGCGGACGCCACCAACGTCAACAACCTGGCACTGGACGGAGAGAGATG
CTTCAAATTGGTCCACGGATAAGCTGAAAACACTGTTCTTGGCAGTGCAGGTTCAAATGAAGAAGGCAAGTGTG
AGGTGACGGAAGTGAGTAAGCTTGATGGAGAGGCATCCATTAACAATCGCAAAGGGAACTTATCTTCTTTATG
AATGGAGCGTCAAACCTAACTGGACAGGTACTTCTAAGTCAGGAGTACAGTACAAAGGACATGTGGAGATCCCCA
ATTTGTCTGATGAAAACAGCGTGGATGAAGTGGAGATTAGTGTGAGCCTTGCCAAAGATGAGCCTGACACAAATC
TCGTGGCCTTAATGAAGGAAGAAGGGGTGAACTTCTAAGAGAAGCAATGGGAATTTACATCAGCACCCCTCAAAA
CAGAGTTCACCCAGGGCATGATCTTACCTACAATGAATGGAGAGTCAGTAGACCCAGTGGGGCAGCCAGCACTGA
AACTGAGGAGCGCAAGGCTAAGCCTGCTCCTTCAAAAACCCAGGCCAGACCTGTTGGAGTCAAAATCCCCACTT
GTAAGATCACTCTTAAGGAAACCTTCCTGACGTCACCAGAGGAGCTCTATAGAGTGTTTACCACCCAAGAGCTGG
TGCAGGCCTTTACCCATGCTCCTGCAACATTAGAAGCAGACAGAGGTGGAAAGTTCCACATGGTAGATGGCAACG
TCTCTGGGGAATTTACTGATCTGGTCCCTGAGAAACATATTGTGATGAAGTGGAGGTTTAAATCTTGGCCAGAGG
GACACTTTGCCACCATCACCTTGACCTTCATCGACAAGAACGGAGAGACTGAGCTGTGCATGGAAGGTCGAGGCA
TCCCTGCTCCTGAGGAAGAGCGGACACGACAGGGCTGGCAGCGGTACTACTTTGAGGGCATTAAACAGACCTTG
GCTATGGCGCACGCTTATTTTAGGGCCAGCGGCAGGGGACTCCAGCCTGCTGGACACTTCAGTCCAGCTCTCTCC
TGACTGGGGCTTGGGACTCACAGGATTGCATCGTCCCAGCTGCTAACTTGGGGCCGGGGCCCCTCCCTTCCACAT
ATACCTTGGGTTTGTGATGTTTTCTGCTGGGTGGGTTTCAGAGGGCAATTTCTCTTTTATGTGTACATATGCTAA
ATAAACATAATTTAAAAACAAAAA

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FIGURE 2341

MAKWGEGDPRWIVEERADATNVNNWHWTERDASNWSTDKLKTLFLAVQVQNEEGKCEVTEVSKLDGEASINNRKG
KLIFFYEWSVKLNWTGTSKSGVQYKGHVEIPNLSDENSVDVEISVSLAKDEPDNLVALMKEEGVKLLREAMGI
YISTLKTEFTQGMILPTMNGESVDPVGPALKTEERKAKPAPSKTQARPVGVKIPTCKITLKETFLTSPEELYRV
FTTQELVQAFTHAPATLEADRGGKFHMVDGNVSGFTDLVPEKHIVMKWRFKSWPEGHFATITLTFIDKNGETEL
CMEGRGIPAPEEERTRQGWQRYYFEGIKQTFGYGARLF

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FIGURE 2342

GGGGCCTGGTGTGATTCCGTCCTGCGCGGTTGTTCTCTGGAGCAGCGTTCTTTTATCTCCGTCCGCCTTCTCTCC
TACCTAAGTGCGTGCCGCCACCCGATGGAAGATTTCGATGGACATGGACATGAGCCCCCTGAGGCCCCAGAAGTAT
CTTTTCGGTTGTGAAGTAAAGGCCGACAAAGATTATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTA
TCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGATGAGTTGCACATTGTTGAAGCAGAGGCAATGAATTAC
GAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTT
GAAATAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTA
GCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGG
TCTGCCCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAGTAAACTTGCTGCTGATGAAGATGATGACGATGAT
GATGAAGAGGATGATGATGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT
AAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAAAGACTCAAAACCATCA
TCAACACCAAGATCAAAAGGACAAGAATCCTTCAAGAAACAGGAAAAAACTCCTAAAAACACCAAAAGGACCTAGT
TCTGTAGAAGACATTAAAGCAAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGGAAAGCCAAA
TTCATCAATTATGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAG
TCTCTTTAAGAAAATAGTTTAAACAATTTGTTAAAAAATTTCCGTCTTATTTCAATTTCTGTAACAGTTGATATC
TGGCTGTCCTTTTTTATAATGCAGAGTGAGAACTTTCCCTACCGTGTGTTGATAAATGTTGTCCAGGTTCTATTGCC
AAGAATGTGTTGTCCAAAAATGCCTGTTTAGTTTTTAAAGATGGAATCCACCCCTTGCTTGGTTTTAAGTATGTA
TGGAATGTTATGATAGGACATAGTAGTAGCGGTGGTCAGACATGGAATGGTGGGGAGACAAAAATACACATGTG
AAATAAAACTCAGTATTTTAATAAAGTAAAAAAAAAAAAAAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2343

MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKDELHIVEAEAMNYEGSPIKVT
LATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAEESEDEEEEDVKLLSISGKRSAPGGGSK
VPQKKVKLAADEDDEDDDEDDDEDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQ
ESFKKQEKTPTPKGPSSVEDIKAKMQASIEKGGSLPKVEAKFINYVKNCFRMTDQEAIQDLWQWRKSL

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FIGURE 2344

CCGCCCTGGAGGCCGGAGCCACTGGGCCTGCGCGCTCGGCAGCGAGCAGCCGCTTTGCTCGCGTGCAGGAGGCT
GTTGCTACCTCACACCCCCGGCTGGCGCTGTGGCCTCGCTTAGCTCTACCGTTTAGCACCCGGCGACATGCACC
CGGTCGGTTTCCGCCAGGATGCGGGAGAGTTGGGGCAAGCTACCTGCGACAGCTTGAACTTTTCTAGGGATTCC
GCTCCACCCGCCGGTTAGAGCGTATTGCTCATTAAATCCGAGACCTGTGTGCTTGCTACTGAAATAAAGAAGTA
TTTGCCCCAGAGTCCTTTTAGGACGTTATGACTTTTCTCCTTTGCAAGACTGCAAAAACTGACAAGAAGAC
ACTCTTCCCACTCCCAGGGACCGGTTGTCTTGAGTTTGGCTAGTAAAGGCTAGCAAGTGAGGCTTTGTCTC
ATCCCGTTCCCCCTAACATCCTCAGAGAACCTTCGTTTCTAGAATCTTTCTAGTATTCAGAGACTTCTCCAG
GCTCATGATCCCAAAGGCTTAACCCGTTTACAAGGAGAGAGTTGTCTCCTGACGCCCAAAATGGCAGCTAAATG
CTTAACCTTTAAGCTCCAACACTGAAGCTTCTCCAAGCAAGAGAGACACATAATAGCCAACTAGAAGAGAAA
GGGCCCTCCTCTGCAAAAAAAGTGGCCAGATCCTGAGCTCTGCCGCCAGAGCTTCAGACGCTTTTGTATCAA
TGCTGCGACCCCAAGAGGCGCTCTCCAGCTCCGACAGCTCTGCCGTGAGTGGTTGCAACCCGAGCTGCAC
AAGGAGCAGATTTTGGAGCTTCTGGTGATGGAGCAGTTCTGACCATCTGCCCGGAGATCCAGGCTCGG
GAGGATCGATGTCCAATGAGCAGCAAGGAGATTGTGACCCTCGTGGAAGATTTTACAGAGCATCCAAGAAA
CAAAGCAGTGGGTGGCCGTTTGTATGCAGGGGCAAAAGGTGCTCTTGAGAAAAGTGGATCTCAGCTTGGAGAA
CAGGAAGTCCAGACTTTCAACCGCAGACTCCTAGGAGAGATCTCAGGGAGAGCTCTCCAGCAGAGCCTTCCCAG
GCAGGAGCTTATGACCGGCTGAGCCCCCATCATTGGGAGAAATCCCCACTCCTCCAAGAACCAACCCCAATG
GCTGGGACAGAGGCCCCCAGAATGAGAAAGTGACAACAAGGAAAATCCACAACAGGAAGGGGCTAAAGGAGCAAAG
CCATGTGCAGTGTGAGCTGGCAGATCCAAAGGGAATGGTCTGCAGAATCCTGAACCAAGAGGGGCAAAATATGAGT
GAACCTCGGTTGTACGGAGGCAGGTGAGCTCCCCAAATGCTCAAAAGCCATTTGCTCACTACCAGAGACATTGC
AGGGTGGAATACATCAGCAGCCCCCTAAAAAGCCACCCACTGAGAGAGCTAAAGAAAAGCAAAGGAGGTAAACGG
AGTCTGAGCAACCGTTTGCAACATCTTGGTCACCAGCCCACCGCTCAGCAAAGAAACCTACAAATGTGATGAC
TGTGGGAAAAGCTTCACGTGGAATTCAGAGCTGAAGAGACACAAGAGAGTCCACACAGGAGAGAGACCCTACACG
TGCGGAGAGTGTGGAACTGCTTTGGGCGGCAGTCAACCCCTGAAGCTGCACCAGAGGATCCCACTGGAGAGAAG
CCATACAGTGTGGCCAGTGTGGGAAAAGCTTTGCCAGAGCTCAAACCTTCACCAGCATCACCAGCTTCACCAT
GGGGACTAAAGGAGCACTCCATGCTTTAGATTACACGGAAGGTGTTTGTGTTTCTCCTCCCCCTTGCTTGCTAT
GTAAATCACAAAACTGTGTGACTTACAAGGAAAGCACGAGGCCCTTGAGGAATGATGATGCACATTCTGCTGTG
AGGAGGCCCAGAAAAGGCCAACCCAGGGCCCAACCGTGCATGATGACAGGGTGCAGAGAAGGCAGGTCTGGGCACT
GGGGCAAAGAGAACTTAAGTCTCTGCAGAGAGCAAGGAGTAAGTACTGAGAGAGAATCAGGACAATCCTGCAGGT
GGCCCGCTTACTGTAAATCGTCCCTCTGTTGCTTTATCCTCTAAATATGTTAAGGGATAAATTCTATATATAT
AGTTATGCATTTGCTGTATACCAGACAATTTTTATCATGAGCACACTTCTTAATAAAGATGAGTGATCTACC
AGAAAAAAAAAAAA

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FIGURE 2345

MAAKMEITLSSNTEASSKQERHIIAKLEEKRGPPLOKNCDPFELCRQSFRFCYQEVSGPQEALSQLRQLCRQWL
QPELHTKEQILELLVMEQFLTILPPEIQARVRHRCPMSSKEIVTLVEDFHRASKKPKQWVAVCMQGQKVLEKTG
SQLGEQELPDFQPQTPRRDLRESSPAEPSQAGAYDRLSPHHWEKSPLLQEPTPKLAGTEAPRMRSDNKENPQQEG
AKGAKPCAVSAGRSKGNLQNPEPRGANMSEPRLSRRQVSSPNAQKPFAYQRHCRVEYISSPLKSHPLRELKKS
KGGKRSLSNRLQHLGHQPTRSAKKPYKCDDCGKSFTWNSELKRHKRVHTGERPYTCGECGNCFGRQSTLKLHQRI
HTGEKPYQCGQCGKSFRQSSNLHQHRLHHGD

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FIGURE 2346

TTTGGGTTAGGGAGAGTGCTTTTCGTTTGTGTTTTAAATGGGAGAACTGGAGCATGTTGCCAAGGCAGAGAGCCAGC
AGAGAGGGGTGAATGGAAGAAGGAGCGAGAAGGGGTTACTGACGAAGCCTTATCCTGGAGGAGAGAAGGATGGA
CTCCAGAGCCCAGCTTTGGGGACTGGCCTTGAATAAAAGGAGGGCCACTCTACCTCATCCTGGAGGGAGCACGAA
CCTAAAGGCAGACCCAGAAGAGCTTTTTACAAAAGTAAAGGAAATTTGGGAAGGGCTCCTTTGGAGAGGTGTTCAA
AGGCATTGACAATCGGACTCAGAAAGTGGTTGCCATAAAGATCATTGATCTGGAAGAAGCTGAAGATGAGATAGA
GGACATTCAACAAGAAATCACAGTGCTGAGTCAGTGTGACAGTCCATATGTAACCAAATATTATGGATCCTATCT
GAAGGATACAAAATTATGGATAATAATGGAATATCTTGGTGGAGGCTCCGCACTAGATCTATTAGAACCTGGCCC
ATTAGATGAAACCCAGATCGCTACTATATTAAGAGAAATACTGAAAGGACTCGATTATCTCCATTTCGGAGAAGAA
AATCCACAGAGACATTAAAGCGGCCAACGTCCTGCTGTCTGAGCATGGCGAGGTGAAGCTGGCGGACTTTGGCGT
GGCTGGCCAGCTGACAGACACCCAGATCAAAAGGAACACCTTCGTGGGCACCCATTCTGGATGGCACCCGAGGT
CATCAAACAGTCGGCCTATGACTCGAAGGCAGACATCTGGTCCCTGGGCATAACAGCTATTGAACCTGCAAGAGG
GGAACACCTCATTCCGAGCTGCACCCCATGAAAGTTTTATTCCCTCATTCCAAAGAACAACCCACCGACGTTGGA
AGGAACTACAGTAAACCCCTCAAGGAGTTTGTGGAGGCCTGTTTGAATAAGGAGCCGAGCTTTAGACCCACTGC
TAAGGAGTTATTGAAGCACAAGTTTATACTACGCAATGCAAAGAAAACCTTCCTACTTGACCGAGCTCATCGACAG
GTACAAGAGATGGAAGGCCGAGCAGAGCCATGACGACTCGAGCTCCGAGGATTCCGACGCGGAAACAGATGGCCA
AGCCTCGGGGGGCGAGTGATTCTGGGGACTGGATCTTCACAATCCGAGAAAAAGATCCCAAGAATCTCGAGAATGG
AGCTCTTCAGCCATCGGACTTGGACAGAAATAAGATGAAAGACATCCCAAAGAGGCCTTTCTCTCAGTGTTTATC
TACAATTATTTCTCCTCTGTTTGCAGAGTTGAAGGAGAAGAGCCAGGCGTGCGGAGGGAACCTTGGGGTCCATTGA
AGAGCTGCGAGGGGGCCATCTACCTAGCGGAGGAGGCGTGCCCTGGCATCTCCGACACCATGGTGGCCCAGCTCGT
GCAGCGGCTCCAGAGATACTCTCTAAGTGGTGGAGGAACCTTCATCCCACTGAAATTCTTTGGCATTGGGGTTT
TGTTTTTTCCTTTTTTTCCTTCTTCATCCTCCTCTTTTTTAAAGTCAACGAGAGCCTTCGCTGACTCCACCGAAG
AGGTGCGCCACTGGGAGCCACCCAGCGCCAGGCGCCGTCAGGGACACACAGTCTTCACTGTGCTGCAGCC
AGATGAAGTCTCTCAGATGGGTGGGGAGGGTCAGCTCCTTCCAGCGATCATTTTATTTTATTTATTACTTTTGT
TTTTAATTTTAACCATAGTGACATATTCCAGGAAAGTGTCTTTAAAAACAAAAACAAACCCTGAAATGTATATT
TGGGATTATGATAAGGCAACTAAAGACATGAAACCTCAGGTATCCTGCTTTAAGTTGATAACTCCCTCTGGAGCT
TGGAGAATCGCTCTGGTGGATGGGTGTACAGATTTGTATATAATGTCAATTTTACGGAAACCCCTTCGGCGTGCA
TAAGGAATCACTGTGTACAACTGGCCAAGTGCTTCTGTAGATAACGTCAAGTGGAGTAAATATTGACAGGCCAT
AAACTTGAGTCTATTGCCTTGCCCTTTATTACATGTACATTTTGAATTCTGTGACCAGTGATTGGGGTTTTATTT
GTATTTGCAGGGTTTGTCAATTAATAATTAATGCCCCCTCTCTTACAGAACACTCCTATTTGTACCTCAACAAATGC
AAATTTTCCCCGTTTGCCCTACGCCCCCTTTGGTACACCTAGAGGTTGATTTCCTTTTTTATCGATGGTACTATT
TCTTAGTGTTTTAAATTGGAACATATCTTGCCTCATGAAGCTTTAAATTATAATTTTTCAGTTTCTCCCCATGAAG
CGCTCTCGTCTGACATTTGTTTGAATCGTGCCACTGCTGGTCTGCGCCAGATGTACCGTCTTTCCAATACGAT
TTTCTGTTGCACCTTGTAGTGGATTCTGCATATCATCTTCCACCTAAAAATGTCTGAATGCTTACACAAATAA
ATTTTATAACACGCTTAAAAAAAAAAAAAA

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FIGURE 2347

MAHSPVQSGLPQMQLKADPEELFTKLEKIGKGSFGEVFKGIDNRTQKVVAIKIIDLEEADEIEDIQQEITVLS
QCDSPIYVTKYYGSYLKDTKLWIIMEYLGGSALDLEPGPLDETQIATILREILKGLDYHSEKKIHRDIKAANV
LLSEHGEVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIKQSAYDSKADIWSLGITAIELARGEPPHSELHPM
KVLFLIPKNNPPTLEGNYSKPLKEFVEACLNKEPSFRPTAKELLKHKFILRNAKTSYLTTELIDRYKRWKAEQSH
DDSSSESDAETDGGASGGSDSGDWIFTIREKDPKNLENGALQPSDLDRNKMKDIPKRPFQSCLSTIISPLFAEL
KEKSQACGGNLGSIIEELRGAIYLAEEVCPGISDTMVAQLVQRLQRYSLSGGGTSSH

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FIGURE 2348

[illegible]

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FIGURE 2349

MSAAPAYSEDKGGSSAGPGEPEYGHDPASGGIFSSDYKRHDDLKEMLDTNKDSLKLEAMKRIVAMIARGKNASDLF
PAVVKNVACKNIEVKKLVYVYLVRYAEEQQDLALLSISTFQRGLKDPNQLIRASALRVLSSIRVPIIVPIMMLAI
KEAASDMSPYVRKTAHAHAIPKLYSLDSDQKQDLIEVIEKLLADKTTLVAGSVVMAFEEVCPERIDLIHKNYRKLC
NLLIDVEEWGQVVIISMLTRYARTQFLSPTQNESLLEENAEKAFYGSEDEAKGAGSEETA AAAAPSRKPVMDP
DHRLLLNTKPLLQSRSAVVMAVAQLYFHLGPRRKWRHRQGAGALLRSHSEVQYVVLQNVATMSIKRRGMFEPY
LKSFYIRSTDPTQIKILKLEVLTLNLANETNIPTVLREFQTYIRSMKDFVAATIQAIGRCATNIGRVDRDTCNLGL
VQLLSNRDELVAESVVVIKKLLQMOPAQHGEI IKHLAKLTDNIQVPMARASILWLI GEYCEHVPRIAPDVL RKM
AKSFTAEDIVKLQVINLAAKLYLTNSKQTKLLTQYVLSLAKYDQNYDIRDRARFTRQLIVPSEQGGALSRHAKK
LFLAPKPAPVLESSFKDRDHFQLGSLSHLLNAKATGYQELPDWPEEAPDPSVRNVEVPEWTKCSNREKRKEKEKP
FYSDSEGESGPTESADSDPESESESDSKSSSESGSGESSES DNEDQDEDEEKGRGSESEQSEEDGKRKTKKKVP
ERKGEASSSDEGSDSSSSSESEMTSESEEEQLEPASWSRKTPSSKSAPATKEISLLDLEDFTPPSVQPVSPPA
IVSTSLAADLEGLTLTDSTLVPSILSPVSGVGRQELLHRVAGEGLAVDYTF SRQPFSGDPHMSVHIHFSNSSDT
PIKGLHVGTPKLPAGISIQEFPEIESLAPGESATAVMGINFCDSTQAANFQLCTQTRQFYVSIQPPVGELMAPVF
MSENEFKKEQGKLMGMNEITEKLMLPDTCRSDHIVVQKV TATANLGRVPCGTSDEYRFAGRTL TGGS LVLLTLDA
RPAGAAQLTVNSEKMGVIGTMLVKDVIQALTQ

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FIGURE 2350

CAGACGGCGCTGAGCGCGGCGGCGGGAGCGGCGTCTGAGTGTCTCCGTGCGCCCGTCTGTGGCCAAGCAGCCA
GCAGCCTAGCAGCCAGTCAGCTTGCCGCGGCGGCGGCAAGCAGCCAACCATGCTCAACTTCGGTGCCTCTCTCCAG
CAGACTGCGGAGGAAAGAAATGGAATGATTTCTGAAAGGCCAAAAGAGAGTATGTATTCCTGGAACAAAAGTGA
GAGAAAAGTGATTTTGAAGCTGTAGAAGCACTTATGTCAATGAGCTGCAGTTGGAAGTCTGATTTTAAAGAAATAC
CAAAACAGACCTGTTACACCAGTATCTGATTTGTCTAGAGGAAGAGAATCTGCTTCCGGGAACACCTGATTTT
CAATCCCAGCATTTTGTGTTGACTCCACCTTACAGTCCTTCTGACTTTGAACCCTCTCAAGTGTCAAACTCTG
ACACCAGCGCCATCTACTGTACACTTCAAGTCACTCTCAGATACTGCCAAACCTCACATTGCCGCACCTTTC
AAAGAGGAAGAAAAGAGGCCAGTATCTGCCCCAAACTCCCCAAAGCTCAGGCAACAAGTGTGATTCTGTACATACA
CTGATGCCAGCTATGTAACCACCAGACCTGCCCAATGAAAGCAGCCAGCATCCTCAACTATCAGAACAAATTCT
AGAAGAAGAACCCACCTAAATGTTGAGGCTGCAAGAAAGAACATACCATGTGCCGCTGTGTACCAAACAGA
AATGTGAGAGAAACACAGTGGCAGATGTTGATGAGAAAGCAAGTGTGCACTTTATGACTTTTCTGTGCCT
TCAGAGACGGTCATCTGCAGGTCTCAGCCAGCCCCGTGTGTCCCCACAACAGAAGTCAGTGTGGTCTCTCCA
TCAGTATCTGCAGGGGAGTGCCACCTATGCCGGTCTCTGCCAGATGGTTCCCTTCCCTGCCAACACCTT
GTGTGACAACAGTCGTTCCAGCACTCCTCCCAGCCAGCCACCAGCCGTTTGCCCCCTGTTGTGTTTATGGGC
ACACAAGTCCCCAAAGGCGCTGTATGTTTGTGGTACCCAGCCCGTTGTGTCAGAGTTCAAAGCCTCCGGTGGTG
AGCCCGAATGGCACCAGACTCTCTCCATTGCCCTGCTCCTGGGTTTTCCCTTCAGCAGCAAAAGTCACTCCT
CAGATTGATTCATCAAGGATAAGGAGTCACATCTGTAGCCACCCAGGATGTGGCAAGACATACTTTAAAGTTCC
CATCTGAAGGCCACACGAGGACGCACACAGGAGAAAAGCCTTTCAGCTGTAGCTGGAAAGGTTGTGAAAGGAGG
TTTGCCGTTCTGATGAAGTGTCCAGACACAGGCGAACCCACACGGGTGAGAAGAAATTTGCGTGCCCCATGTGT
GACCGGCGGTTTATGAGGAGTGACCATTTGACCAAGCATGCCGCGGCCATCTATCAGCCAAGAAGCTACCAAAC
TGGCAGATGGAAGTGAGCAAGCTAAATGACATTGCTCTACCTCCAACCCCTGCTCCACACAGTGCAGACCGGA
AAGTGAAGAGTCAGAACTAACTTTGGTCTCAGCGGGAGCCAGTGGTGATGTAAAAATGCTTCCACTGCAAGTCTG
TGGCCCCACAACGTGGGCTTAAAGCAGAAGCCCCACAGCCTGGCACGAAGGCCCCGCTGGGTTAGGTGACTAA
AGGGCTTCGGCCACAGGCAGGTACAGAAAGGCAGGTTTCAATTTCTTATCACATAAGAGAGATGAGAAAGCTTTT
ATTCTTTGAATATTTTTTGAAGGTTTCAGATGAGGTCAACACAGGTAGCACAGATTTTGAATCTGTGTGCATAT
TTGTTACTTTACTTTTGTGTTTATACTTGAGACCAACTTTTCAATGTGATTCTTCTAAAGCACTGGTTTCAAGA
ATATGGAGGCTGGAAGGAAATAAACATTACGGTACAGACATGGAGATGTAAATGAGTTTGTATTATTACAAATA
TTGTCATCTTTTTCTAGAGTTATCTTCTTTATTATTCTAGTCTTCCAGTCAACATCGTGGATGTAGTGATTAA
ATATATCTAGAATATCATTTTTTACACTATTGTGAATATTTGGAATTGAACGACTGTATATTGCTAAGAGGGCCC
AAAGAATTGGAATCCTCCTTAATTTAATTGCTTTGAAGCATAGCTACAATTTGTTTTTGCATTTTTGTTTTGAAA
GTTTAACAAATGACTGTATCTAGGCATTTTATTATGCTTTGAACCTTTAGTTTGCCTGCAGTTTCTTGTGTAGATT
TGAAAATTGTATACCAATGTGTTTTCTGTAGACTCTAAGATACACTGCACCTTTGTTTAGAAAAAAACTGAAGAT
GAAATATATATTGTAAAGAAGGGATATTAAGAATCTTAGATAACTTCTTGAAAAAGATGGCTTATGTCATCAGTA
AAGTACCTTTATGTTATGAGGATATAATGTGTGCTTTATTGAATTAGAAAATTAGTGACCATTATTCACAGGTGG
ACAAATGTTGTCCTGTAAATTTATAGGAGTTTTTGGGGATGTGGAGGTAGTTGGGTAGAAAAATTATTAGAACA
TTCATTTTTGTTAACAGTATTTCTCTTTTATTCTGTTATATAGTGGATGATATACACAGTGGCAAAACAAAAGTA
CATTGCTTAAATATATAGTGAAAAATGTCATATATCTCCATTAAACATTGTTTTTGTATATTGGGTGTAGA
TTTCTGACATCAAACTTGGACCTTGGAAAACAAAAGTTTTTAATTAATAAAAAATCCTTGTGACTTACAATTTGC
ACAATATTTCTTTTGTGTTACTTTATATCTTGTTTACAATAAAGAATTC

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FIGURE 2351

MLNFGASLQQTAEERMEMISERPKE SMYSWNKTAEKSDFEAVEALMSMSCSWKSDFKKYVENRPVTPVSDLSEEE
NLLPGTPDFHTIPAFCLTPPYSPSDFEPSQVSNLMAPAPSTVHFKSLSDTAKPHIAAPFKEEEKSPVSAPKLPKA
QATSVIRHTADAQLCNHQTCPMKAASILNYQNNFRRRTHLNVEAARKNIPCAAVSPNRSKCERNTVADVDEKAS
AALYDFSVPSSSETVICRSQPAPVSPQQKSVLVSPPAVSAGGVPPMPVICQMVPLPANNPVVTTVVPSTPPSQPPA
VCPVVFMTGTQVPGAVMFVVPQPVVQSSKPPVSPNGTRLSP IAPAPGFSPSAKVTPQIDSSRIRSHICSHPG
CGKTYFKSSHLKAHTRTHTGEKPFSCSWKGCERRFARSDEL SRHRRTHTGEKKFACPMCDRRFMRS DHLT KHARR
HLSAKKLPNWQMEVSKLNDIALPPTPAPTQ

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FIGURE 2352

GAAGTGGTGGCAGTGAGAGACTTCGGCGGACATGGCTCCACGCGTGCCAGCGGCAGAACCCGAGTATCCTAAAGG
CATCCGGGGCCGTGCTGCTGGGGCCCTCCCGGGGCGGTAAAGGGACCCAGGCACCCAGATTGGCTGAAAACTTCTG
TGTCTGCCATTTAGCTACTGGGGACATGCTGAGGGCCATGGTGGCTTCTGGCTCAGAGCTAGGAAAAAGCTGAA
GGCAACTATGGATGCTGGGAACTGGTGAGTGATGAAATGGTAGTGAGCTCATTGAGAAGAATTTGGAGACCCC
CTTGTGCAAAAATGGTTTTCTTCTGGATGGCTTCCCTCGGACTGTGAGGCAGGCAGAAATGCTCGATGACCTCAT
GGAGAAGAGGAAAGAGAAGCTTGATTCTGTGATTGAATTCAGCATCCCAGACTCTCTGCTGATCCGAAGAATCAC
AGGAAGGCTGATTCACCCCAAGAGTGGCCGTTCCCTACCACGAGGAGTTCAACCCTCCAAAAGAGCCCATGAAAGA
TGACATCACCGGGGAACCCCTTGATCCGTCGATCAGATGATAATGAAAAGGCCCTTGAAAATCCGCCTGCAAGCCTA
CCACACTCAAACCACCCCACTCATAGAGTACTACAGGAAACGGGGGATCCACTCCGCCATCGATGCATCCCAGAC
CCCCGATGTCGTGTTGCGAAGCATCCTAGCAGCCTTCTCCAAAGCCACATCCTAGTATCAGAAGGCCAGGCGAGA
CTGCAACACTGCTCATCACCCCGCGGCGTGATCCCTGCTCTTAGGTGCTGGGCAGAGGGGAAGGGTGGTCAGGGT
GAGGATGGTGAGGGAGGGCTGGTGAGGGGCTCAGAGGAATACTTGGAACAACAGCAGTGTTATTGTAGTGTGGCA
GTTTTCTTTTATACATAGGTGAGAGTTTTTAAAGTGTAAGGGAAAAATTAATTTTTTAAAAAACACCATGCTTGGA
GGGTGGGGGTAGAAATAGACACAATATTATTCTAAGGAATCGGGTTTTTCACTTCTGGACTGGTGAAAATAT
TTTTTAAAGCCAGTGCTCTAAGACCTCAGCTTTTATCTCAGAACCCCATGGGTTCCAGACCAAGAGTACAGGAAA
TCAAATTGTTGTCTGTCTGTCTATAGCTTGGAACAGGGAGCTTTGATTACTGACTCCGGTTCCACACACTGTAA
GATCAAAAACCATCTCCACATTTGAAAGAGATGTAAGGTGTATTTCATAGGGATGGTGGCTCAACAAATCAAGCA
AACTGGAATCAAGGGGAGGGGGAAGGGAATGAAATGGAAGGGAGGCTGATTCCCTTCCCTGACTTACCACTAA
TTTACTAGGCTACCTACTTTTCATGAGTAACCTCTCACAGCTACCCAGCACATGCCACAATCCTATCGTCTTGCCCT
TCTTTTATCTGCACTGTGTGAAGGGACTCTTTTAAATAAATGAGCAAGTGTCTTAAGCTATGTCATCCAAAGATT
GTCCTTTCCATTCTCAAATCCTGTGACTGGGATCACTCAACAGCACTGTGATGTATTATTTTCAATGAGGTGCCT
TTCTTAACTGACCAAAATGCTGCCTTGTTTGGCCCTAAATCAATAAAATATGTTAAAATTTGTATCCCCTGTTGT
GGCATTTTTTTTTAGATAATCTAAGCTAGAAAAATGACATTGAATTCTGGACCTGGCTGGAAGGAAAAGAAGCCCT
TTCTTGTCGCTGGCAGCTGTGTGGTAGGAGGTCCAAGTATGTGCATATGAGATAAGCCTGCAACCTCTTGACCTT
CAGCTCCTATGCAGGCTTCTCTTGAGCCCAGAGACAAGGCAGCTTGGTCTAGTGGAGATAGCACTGTGCTTGGAG
TTCAGGGGACCTAGGACAAATCCAGCCAGTTAGTTATTCACTGTGCTCCTGTTTCTCAGCTGAAAAAGGAAGT
TGTTATGCCACCTTCTTGCCCTTAATGGCATTAAATGAAATTTATAGGAAGAAGGTTTTTGCTCAGTACCTGGC
ATGCAACAGACATTGGATAAATGTTAGTTGGATCCAGATATACACAGAAAGATATCTGCTTCCCTGCCAGGCTGGA
TAACTGTTGAATGACACTTGTCCATAGTCTAGA

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FIGURE 2353

MAPSVPAAEPEYPKGIRAVLLGPPGAGKGTQAPRLAENFCVCHLATGDMLRAMVASGSELGKKLKATMDAGKLVS
DEMVELIEKNLETPLCNGFLLDGFPRTVRQAEMLDDLMEKRKEKLDSVIEFSIPDSLLIRITGRLIHPKSGR
SYHEEFNPPKEPMKDDITGEPLIRRSDDNEKALKIRLQAYHTQTTPLEYYRKRGIHSAIDASQTPDVVFASILA
AFSKATS

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FIGURE 2354A

GCTTGGGGCCGCCATCTTGGCAAGAGGGCGAAGCGGCAGCGGTTCTGTCAAGGGGGCAGCAGGTCCAGAGCTGCT
GGTGCTCCCGTTCCCCAGACCCCTACCCCTATCCCCAGTGGAGCCGGAGTGC GGCGCGCCCCACCACCGCCCTCA
CCATGGTGCTGTTGGCAGCAGCGGTCTGCACAAAAGCAGGAAAGGCTATTGTTTCTCGACAGTTTGTGGAAATGA
CCCGAACTCGGATTGAGGGCTTATTAGCAGCTTTTCCAAAGCTCATGAACACTGGAAAACAACATACGTTTGTG
AAACAGAGAGTGTAAGATATGTCTACCAGCCTATGGAGAACTGTATATGGTACTGATCACTACCAAAAACAGCA
ACATTTTAGAAGATTGGAGACCCTAAGGCTCTTCTCAAGAGTGATCCCTGAATATTGCCGAGCCTTAGAAGAGA
ATGAAATATCTGAGCACTGTTTTGATTGATTTTTGCTTTTGATGAAATTGTCGCACTGGGATACCGGGAGAATG
TTAACTTGGCACAGATCAGAACCTTCACAGAAATGGATTCTCATGAGGAGAAGGTGTTTCAGAGCCGTCAGAGAGA
CTCAAGAACGTGAAGCTAAGGCTGAGATGCGTCGTAAAGCAAAGGAATTACAACAGGCCCGAAGAGATGCAGAGA
GACAGGGCAAAAAGCACCAGGATTGGCGGATTGGCAGCTCTGCAGTATCTGGAGGCAGCACAGCTGCCATGA
TCACAGAGACCATCATTGAACTGATAAACCAAAAGTGGCACCTGCACCAGCCAGGCCTTCAGGCCCCAGCAAGG
CTTTAAACTTGGAGCCAAAGGAAAGGAAGTAGATAACTTTGTGGACAAATTAAATCTGAAGGTGAAACCATCA
TGTCCTCTAGTATGGGCAAGCGTACTTCTGAAGCAACCAAAATGCATGCTCCACCCATTAATATGGAAAGTGATC
ATATGAAGATTGAAGAAAAGATAACATTAACCTGTGGACGAGACGGAGGATTACAGAATATGGAGTTGCATGGCA
TGATCATGCTTAGGATCTCAGATGACAAGTATGGCCGAATTCGTCTTCATGTGGAAAATGAAGATAAGAAAGGGG
TGCAGCTACAGACCCATCCAAATGTGGATAAAAACTTTTCACTGCAGAGTCTCTAATTGGCCTGAAGAATCCAG
AGAAGTCATTTCCAGTCAACAGTGACGTAGGGGTGCTAAAGTGGAGACTACAAACCACAGAGGAATCTTTTATTC
CACTGACAATTAATTGCTGGCCCTCGGAGAGTGGAAATGGCTGTGATGTCAACATAGAATATGAGCTACAAGAAG
ATAATTTAGAAGTGAATGATGTGGTTATCACCATCCCCTCCCGTCTGGTGTGCGCGCGCCTGTTATCGGTGAGA
TCGATGGGGAGTATCGACATGACAGTCGACGAAATACCCTGGAGTGGTGCCTGCCTGTGATTGATGCCAAAAATA
AGAGTGGCAGCCTGGAGTTTAGCATTGCTGGGCAGCCCAATGACTTCTTCCCTGTTCAAGTTTCCCTTGTCTCCA
AGAAAAATTACTGTAACATACAGGTTACCAAAGTGACCCAGGTAGATGGAAACAGCCCCGTCAGGTTTTCACAG
AGACCACTTTCTAGTGGATAAGTATGAAATCTGTAAATACCAAGAAGAGGGAGCTGAAAAGGAAATTTTCAGA
TTAATAAAGAAAGACGCCAATGATGGCTGAAGAGTTTTTCCAGATTTACAAGCCACTGGAGACCCCTTTTTTCTG
ATACAATGCACGATTCTCTGCGCGCAAGGACCCTCGACTCACCCCATGTTTCAGTGTACAGAGACATTCTTTG
ATAAGGAAATGGCACAAACATAAAGGGAAGGCTGCTAATTTTTCTTTGGCAGATTGTATTGGCCAGCAGGAAAGC
AAGCTCTCCAGAGAATGCCCCAGTTAAATACCTCCTCTACCTTTACCTAAGTTGCTCCTTTATTTTTATTTTAT
TATTATTATTATTATTATTATTTTTTGAGATGGAGTCTCACTTTGTAAACCAGGCTGGAATGCAATGGCATGATC
TCAGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGCAAGTCTCCTGCCTCAGCCTCCGAGTAGCTGGGACTACAG
GTGCACGCCACCACGCCTGGCTAATTTTTTTGATTTTTAGTAGAGACGGGGTTTACCCTGTTGCCAGGCTGGTC
GCGAACTCCTGAGCTCAGGCAATCCGCCCACCTCAGCCTCCCAAAGTGTGGGATTACAGGCATGAGCCACCATG
CCCAGCTGCTCCTTTATTTTAAATCCCTAAATATAATCCCTAAATATAGTTATATTTTCATACTTAGTTTGTTTTA
AAAAGTTTTCTCTGTAGAAAATTTTAAATCATTACATCCCTTTACCTTTAGGTTTTTCTTTCTATACATTAGTCA
GGCACTGGGATCATCTGTTTACAGGCATTATATTTATTTGGCACTCCTGGAACAAGTATATCTAACCATTCTTG
ATTTTTGGACTATTACAGGTGAATTTGAGGGGTATGGGGTCTAGAAGTTAAAAGATACGCATGTCTTCTGTTC
TTTTCCCGTATCAATTCATTCTCTCTTTGCCAAGTTGTTTTCTTTTCCAGGCGCTGCTCTCCAGTTTAGA
ACAGTACCATGAATCCCACTTGTGTCAATATTAAAGATAGCTGAGAAGCACCTTTCAAATGGCACAGTCCCTCTT
CAAGATGTCTAAAAGAATGGTTATGTCTGTCCAGTTAGGGATTTACATCCACATGTAATCATGTCTGTCTGT
TGCTACCCAAATTTTCATTTCTCCACATTTTGGGTACTTAAGCTAAAACGTAATGGCCACAGTCTGTAATCCATT
CACATTCCTCAGTTTACCACCTCCCTCTCCAGACTGCCTCTGTCTCATCAGTCCCCTCCTTTCTAACAGAAA
TGGGGTTATGATTTTGAAGGCTGTGGGTTCAGGGAGTCTTTGCCAATCCTGTTGGCCCTAAACTATCAAGGAGGC
TCCATTTACCATTGATTTTTGCATTTAGGAGGCAACTGATTGTTTCGATATGTACATATTACTCACGTATA
CCCCATTTCTTCCAGTCAGCCCAACATTTTCCACAGTCTGTCCCCATCTCTGAAATCCTTCTCTCTTTCCC
CCTAAGTCTTTTGGTGTCTCATGTACTGGTGGTTTCTCGGTTCCATCTCATCCATTTCTTTTCAATGGAGAC
TACAGCGTCAGCCAGCTCAGCCTTGGCTTTTAACTCAATATTCAGTCCATAGGGGTGGTTAAAAGTTGCTGCAA
GGCTGCAGGCACTGGCAGTGGGAAGAGGCAGACGACTAGATGACTTCTGCATTTTAGCTGGTTGAAAAGTACCA
CTCCCACTCTGAACATCTGGCCGTCCCTGCAAAGAGTGTACTGTGCTTGAAGCAGAGCACTCACACATAAATGGC
TGTGTGTGGAATTGCTTGCCAAAGAAGTTTCTAGCCTTTCCCTTTCCCTAAGTGCATCAGGGAAGAATTCTTAT

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FIGURE 2354B

CTCTAGCTTGGTTTCCACATGAGGTTTTCTGAGAAGGGCTTGGGACAAGAAGTCTGTCATGTTAGTTAAGCAGG
CAAGAAATCCTACTAATCCAGTTTTGTTTGAAAGTTGTTTGTCCGTATGATTTTTTAAAAGTCAAGTTTAATTTC
AAAAAACCTTTTTTTCTGAGATTACTTTTGGGGTAATATTTAAATGAGAGACATTTTGTAAACCCTGTAAAATA
CATAGGGAATATAACATTCCAGTGTATACAAAGAAGGCAAATTCCTTAATCAAATAAAGCGTATTATAAATGAG
AAAAAAAAAAAAAAAAA

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FIGURE 2355

MVLLAAVCTKAGKAIVSRQFVEMTRTRIEGLLAAPFKLMNTGKQHTFVETESVRYVYQPMKLYMVLITTKNSN
ILEDLETLRLFSRVIPEYCRAL ENEISEHCFDLIFAFDEIVALGYRENVNLAQIRTFTEMDSHEEKVFRAVRET
QEREAKAEMRRKAKELQQARRDAERQGKKAPGFGGFGSSAVSGGSTAAMITETIIETDKPKVAPAPARPSGPSKA
LXLGAKGKEVDNFVDKLGSEGETIMSSSMGKRTSEATKMHAPPINMESVHMKIEEKITLTCGRDGGLQNMELHGM
KISDDKYGRIRLHVENEDKKGVLQTHPNVDKKLFTAESLIGLKNPEKSFPVNSDVGVLKWRLQTTEESFIP
WPSSESGNGCDVNIEYELQEDNLELNDVVITIPLPSGVGAPVIGEIDGEYRHSRRTLEWCLPVIDAKNK
EFSIAGQPNDFFPVQVSFVSKKNYCNIQVTKVTQVDGNSPVRFTETTTFLVDKYEIL

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FIGURE 2356

[illegible]

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FIGURE 2357

MVLADLGRKITSALRSLSNATIIINEEVLNAMLKEVCTALLEADVNIKLVKQLRENVKSAIDLEEMASGLNKRKMI
QHAVFKELVKLVDPGVKAWPTKKGQNVIMFVGLQSGKTTTCSKLAYYYQRKGWKTCLICADTFRAGAFDQLKQ
NATKARIPFYGSYTEM DPVIIASEGVEKFKNENFEIIIVDTSGRHKQEDSLFEEMLQVANAIQPDNIVYVMDASI
GQACEAQAKAFKDKVDVASVIVTKLDGHAKGGGALS AVAATKSPIIFIGTGEHIDDFEPFKTPFFISKLLGMGDI
EGLIDKVNELKLDDNEALIEKLKHGQFTLRDMYEQFQNMKMGPFSQLGMIPGFGTDFMSKGNEQESMARLKKL
MTIMDSMNDQELDSTDGAKVFSKQPGRIQRVARGSGVSTRDVQELLTQYTKFAQMVKKMGGIKGLFKGGDMSKNV
SQSQMAKLNQQMAKMMDP RVLHHMGGMAGLQSMRQFQQGAAGNMKGMMGFNNM

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FIGURE 2358

CTCAGACTGTCCTTCTCTCTGGACTGTAAGAATATGTCTCCAGGGCCAGTGTCTGCTGCGATCGAGTCCCACCT
TCCAAGTCCTGGCATCTCAATGCATCTGGGAAGCTACCTGCATTAAGTCAGGACTGAGCACACAGGTGAACTCCA
GAAAGAAGAAGCTATGGCCGCGAGTGATTCTGGAGAGCATCTTCTGAAGCGATCCCAACAGAAAAAGAAAACATC
ACCTCTAAACTTCAAGAAGCGCCTGTTTCTCTTGACCGTGCACAACTCTCCTACTATGAGTATGACTTTGAACG
TGGGAGAAGAGGCAGTAAGAAGGGTTCAATAGATGTTGAGAAGATCACTTGTGTTGAAACAGTGGTTCCCTGAAAA
AAATCCTCCTCCAGAAAGACAGATTCCGAGAAGAGGTGAAGAGTCCAGTGAAATGGAGCAAATTTCAATCATTGA
AAGGTTCCCTTATCCCTTCCAGGTTGTATATGATGAAGGGCCTCTCTACGTCTTCTCCCCAACTGAAGAACTAAG
GAAGCGGTGGATTACCCAGCTCAAAAAACGTAATCCGGTACAACAGTGATCTGGTTCAGAAATATCACCTTGCTT
CTGGATCGATGGGCAGTATCTCTGCTGCTCTCAGACAGCCAAAAATGCTATGGGCTGCCAAATTTGGAGAACAG
GAATGGAAGCTTAAACCTGGGAGTTCTCACCAGGAAGACAAAAAGCCTCTTCCCCAACGCCTGAGGAGGACCA
GATCTTGAAAAAGCCACTACCGCTGAGCCAGCAGCAGCACCAGTCTCCACAAGTGAGCTGAAAAAGGTTGTGGC
CCTTTATGATTACATGCCAATGAATGCAAATGATCTACAGCTGCGGAAGGGTGATGAATATTTATCTTGGAGGA
AAGCAACTTACCATGGTGGAGAGCACGAGATAAAAAATGGGCAGGAAGGCTACATTCCTAGTAAGTATGTCACTGA
AGCAGAAGACTCCATAGAAATGTATGAGTGGTATTCCAAACACATGACTCGGAGTCAGGCTGAGCAACTGCTAAA
GCAAGAGGGGAAAGAAGGAGGTTTCATTGTCAGAGACTCCAGCAAAGCTGGCAAATATACAGTGTCTGTGTTTGC
TAAATCCACAGGGGACCCTCAAGGGGTGATACGTCAATTATGTTGTGTGTTCCACACCTCAGAGCCAGTATTACCT
GGCTGAGAAGCACCTTTTTCAGCACCATCCCTGAGCTCATTAACTACCATCAGCACAACCTCTGCAGGACTCATATC
CAGGCTCAAAATATCCAGTGTCTCAACAAAACAAGAATGCACCTTCCACTGCAGGCCTGGGATACGGATCATGGGA
AATTGATCCAAAGGACCTGACCTTCTTGAAGGAGCTGGGGACTGGACAAATTTGGGGTAGTGAAGTATGGGAAATG
GAGAGGCCAGTACGACGTGGCCATCAAGATGATCAAGAAGGCTCCATGTCTGAAGATGAATTCATTGAAGAAGC
CAAAGTCATGATGAATCTTTCCCATGAGAAGCTGGTGCAGTTGTATGGCGTCTGCACCAAGCAGCGCCCCATCTT
CATCATCACTGAGTACATGGCCAATGGCTGCCTCTGAACTACCTGAGGGAGATGCGCCACCGCTTCCAGACTCA
GCAGCTGCTAGAGATGTGCAAGGATGTCTGTGAAGCCATGGAATACCTGGAGTCAAAGCAGTTTCCTTACCGAGA
CCTGGCAGCTCGAACTGTTTGGTAAACGATCAAGGAGTTGTTAAAGTATCTGATTTGGCCTGTCCAGGTATGT
CCTGGATGATGAATACACAAGCTCAGTAGGCTCCAAATTTCCAGTCCGGTGGTCCCCACCGGAAGTCCTGATGTA
TAGCAAGTTCAGCAGCAAATCTGACATTTGGGCTTTTGGGGTTTTGATGTGGGAAATTTACTCCCTGGGGAAGAT
GCCATATGAGAGATTTACTAACAGTGAGACTGCTGAACACATTGCCCAAGGCCTACGTCTCTACAGGCCTCATCT
GGCTTCAGAGAAGGTATATACCATCATGTACAGTTGTTGGCATGAGAAAGCAGATGAGCGTCCCCTTTCAAAT
TCTTCTGAGCAATATTCTAGATGTATGGATGAAGAATCTTGAGCTCGCCAATAAGCTTCTTGGTTCTACTTCTC
TTCTCCACAAGCCCCAATTTCACTTTCTCAGAGGAAATCCCAAGCTTAGGAGCCCTGGAGCCTTTGTGCTCCCAC
TCAATACAAAAAGGCCCCCTCTCTACATCTGGGGATGCACCTCTTCTTTGATTCCCTGGGATAGTGGCTTCTGAGC
AAAGGCCAAAAAATTATTGTGCTGAAATTTCCCGAGAGAATTAAGACAGACTGAATTTGCGATGAAAAATATTTT
TTAGGAGGGAGGATGTAAATAGCCGCACAAAGGGGTCCAACAGCTCTTTGAGTAGGCATTTGGTAGAGCTTGGGG
GTGTGTGTGTGGGGGTGGACCGAATTTGGCAAGAATGAAATGGTGTCTATAAAGATGGGAGGGGAGGGTGTGTTTGA
TAAATAAATTCTAGAAAGCTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 2359

MAAVILESIFLKRSQKKKTSPLNFKKRLFLLTVHKLSYYEYDFERGRRGSKKGSIDVEKITCVETVVPEKNPPP
ERQIPRRGEESSEMEQISIIERFPYPFQVVYDEGPLYVFSPTTEELRKRWIHQLKNVIRYNSDLVQKYHPCFWIDG
QYLCCSQTAKNAMGCQILENRNGSLKPGSSHRKTKKPLPPTPEEDQILKKPLPPEPAAAPVSTSELKKVVALYDY
MPMNANDLQLRKGDEYF ILEESNLPWWRARDKNGQEGYIPSNYVTEAEDSIEMYEWYSKHMTRSQAELLKQEGK
EGGFIVRDSSKAGKYTVSVFAKSTGDPQGVIRHYVVCSTPQSQYYLAEKHLFSTIPELINYHQHNSAGLISRLKY
PVSQQNKNA PSTAGLGYGSWEIDPKDLTFLKELGTGQFGVVKYGKWRGQYDVAIKMIKEGSMSEDEFIEEAKVMM
NLSHEKLVQLYGVCTKQRP I F I I TEYMANGCLLNYLREMRHRFQTQOLLEMCKDVCEAMEYLESKQFLHRDLAAR
NCLVNDQGVVKVSDFGLSRYVLDDEYTSSVGSKFPVRWSPPEVL MYSKFSSKSDIWA FGVL MWEIYSLGKMPYER
FTNSETAEHIAQGLRLYRPHLASEKVYTIMYSCWHEKADERPTFKILLSNILDVMDEES

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FIGURE 2360A

GAATTCCTCAGCTCTCTGCTCGCTCTGCTCGCAGTCACAGACACTTGAGCACACGCGTACACCCAGACATCTTCGG
GCTGCTATTGGATTGACTTTGAAGTTCTGTGTGGGTCGCCGTGGCTGCATGTTTGAATCAGGTGGAGAAGCACT
TCAACGCTGGACGAAGTAAAGATTATTGTTGTTATTTTTTTTTTCTCTCTCTCTCTCTTAAGAAAGGAAAAATA
TCCCAAGGACTAATCTGATCGGGTCTTCCTTCATCAGGAACGAATGCAGGAATTTGGGAAGTGAAGCTGTGCAAGT
GCTGAAGAAGGAGATTTGTTTGGAGGAAACAGGAAAGAGAAAGAAAGGAAGGAAAAATACATAATTCAGGGA
CGAGAGAGAGAAGAAAAACGGGGACTATGGGGAGAAAAAGATTGAGATTACGAGGATTATGGATGAACGTAACA
GACAGGTGACATTTACAAAGAGGAAATTTGGGTTGATGAAGAAGGCTTATGAGCTGAGCGTGTGTGACTGTG
AGATTGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTGCTTC
TCAAGTACACGGAGTACAACGAGCCGCATGAGAGCCGGACAAACTCAGACATCGTGGAGACGTTGAGAAAGAAGG
GCCTTAATGGCTGTGACAGCCAGACCCCGATGCGGACGATTCCGTAGGTACAGCCCTGAGTCTGAGGACAAGT
ACAGGAAAAATTAACGAAGATATTGATCTAATGATCAGCAGGCAAGATTGTGTGCTGTTCCACCTCCCAACTTCG
AGATGCCAGTCTCCATCCCAGTGTCCAGCCACAACAGTTTGGTGTACAGCAACCTGTGAGTCACTGGGAAACC
CCAACCTATTGCCACTGGCTCACCCTTCTCTGCAGAGGAATAGTATGTCTCCTGGTGTAAACACATCGACCTCCAA
GTGCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCAGTCTGGTGCAGGCACCAGTGCAGGGAACGGGTATG
GCAATCCCCGAAACTCACCAGGTCTGCTGGTCTCAGCTGGTAACCTGAACAAGAATATGCAAGCAAAATCTCCTC
CCCCAATGAATTTAGGAATGAATAACCGTAAACCAGATCTCCGAGTCTTATTCCACCAGGCAGCAAGAATACGA
TGCCATCAGTGTCTGAGGATGTGACCTGCTTTTGAATCAAAGGATAAATAACTCCCAGTCCGGCTCAGTCATTGG
CTACCCCAGTGGTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAGCCATTTCAA
CAACATATGGTACCGAGTACTCTCTGAGTAGTGACAGCTGTCTCTGTCTGGGTTTAAACACCGCCAGCGCTC
TTCACCTTGGTTTCACTAAGTGGCTGGCAACAGCAACACCTACATAACATGCCACCATCTGCCCTCAGTCAGTTGG
GAGCTTGCACTAGCACTCATTTATCTCAGAGTTCAAATCTCTCCCTGCCTTCTACTCAAAGCCTCAACATCAAGT
CAGAACCTGTTTCTCCTCCTAGAGACCGTACCACCACCCCTTCGAGATACCCACAACACACGCGCCACGAGGCGG
GGAGATCTCCTGTTGACAGCTTGAGCAGCTGTAGCAGTTCGTACGACGGGAGCGACCGAGAGGATCACCAGGAACG
AATTCCACTCCCCATTGGACTCACCAGACCTTCGCCGGACGAAAGGGAAAGTCCCTCAGTCAAGCGCATGCGAC
TTTCTGAAGGATGGGCAACATGATCAGATTATTACTTACTAGTTTTTTTTTTTTTTTCTTGCAAGTGTGTGTGTGC
TATACCTTAATGGGGAAGGGGGTCGATATGCATTATATGTGCCGTGTGTGGAAAAAAGTCAAGTACTCT
GTTTTGTAAAGTACTTTTTAAATTGCCTCAGTGATACAGTATAAAGATAAACAGAAATGCTGAGATAAGCTTAGC
ACTTGAGTTGTACAACAGAACACTTGTACAAAATAGATTTTAAAGGCTAACTTCTTTTACTGTTGTGCTCCTTTG
CAAAATGTATGTTACAATAGATAGTGTCTGTTGAGGTTCAACGTTATTTACATGTAAATAGACAAAAGGAAAC
ATTTGCCAAAAGCGGCAGATCTTTACTGAAAGAGAGAGCAGCTGTTATGCAACATATAGAAAAATGTATAGATGC
TTGGACAGACCCGGTAATGGGTGGCCATTGGTAAATGTTAGGAACACACCAGGTCACCTGACATCCCAAGATGC
TCACAAACCTGCAGGCATATCATTGGCGTATGGCACTCATTAAAAAGGATCAGAGACCATTAAAAAGAGGACCATA
CCTATTAAAAAATGTGGAGTTGGAGGGCTAACATATTTAATTAAATAAAATAAAATCTGGGTCTGCATCT
CTTATTAAATAAAAAATATAAAAAATGTACATTACATTTTGTCTTATTTTCATATAAAAAAGTAAAGACAGAGTTTGC
AAAGCATTGTGGCTTTTGTAGTTTACTTAAGCCAAAATGTGTTTTTTTCCCTTGATAGCTTCGCTAATATTT
TAAACAGTCTGTAAAAAACCAAAAGGACTTTTTGTATAGAAAGCACTACCTTAAGCCATGAAGAAGTCCATGC
TTTGCTAACCAAGATAACTGTTTTCTCTTTGTAGAAGTTTTGTTTTTGAAATGTGTATTTCTAATTATATAAAT
ATTAAGAATCTTTTAAAAAATCTGTGAAATTAACATGCTTGTGTATAGCTTTCTAATATATATAATATTATGGT
AATAGCAGAAGTTTTGTTATCTTAATAGCGGAGGGGGGTATATTTGTGCAAGTGCACATTTGAGTAACTATTTT
CTTTCTGTTTTCTTTTACTCTGCTTACATTTTATAAGTTTAAAGGTCAGCTGTCAAAGGATAACCTGTGGGGTTA
GAACATATCACATTGCAACACCCTAAATTGTTTTTAAATACATTAGCAATCTATTGGGTCAACTGACATCCATTGT
ATATACTAGTTTTCTTCATGCTATTTTTATTTTGTTTTTTGCATTTTTATCAAATGCAGGGCCCTTTCTGATCT
CACCATTTACCATGCATCTTGAATTACAGTAAGTGCATATCCTAACTTGCCCATATTCTAAATCATCTGGTTGG
TTTTAGCCTAGAAATTTGATACGCTTTTTAGAAATATGCCAGAAATAGAAAAGCTATGTTGGGGCACATGTCCTG
CAAATATGGCCCTAGAAACAAGTATATGGAATTTACTGGTGAATAAGTTATAAATCCCACAGAAGAAAAATG
TGAAAGACTGGGTGCTAGACAAGAAGGAAGCAGGTAAAGGGATAGTTGCTTTGTATCCGTTTTTAATTATTTTA
ACTGACCTTGACAATCTTGTGAGCAATATAGGACTGTTGAACAATCCCGGTGTGTGAGGACCCCAATGTAC
TTCTGCATAAAGCATGTATGTCTATCTATTTTTTCTTCAATAAAGAGATTTAATAGCCATTTCAAGAAATCCATA

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FIGURE 2360B

AAGAACCTCTCTATGTCCCTTTTTTAATTTAAAAAAATGACTCTTGTCTAATATTCGTCTATAAGGGATTAATT
TTCAGACCCCTTTAATAAGTGAGTGCCATAAGAAAAGTCAATATATATTGTTTAAAAGATATTCAGTCTAGGAAAG
ATTTTCCTTCTCTTGGAATGTGAAGATCTGTCGATTCACTCCAATCATATGCATTGACATACACAGCAAAGAAG
ATATAGGCAGTAATATCAACACTGCTATATCATGTGTAGGACATTTCTTATCCATTTTTCTCTTTTACTTGCA
TCTGCTATGTGTTTCTCATTGTAAAAGGCTGCCGCTGGGTGGCAGAAGCCAAGAGACCTTATTAAGTAGGCTAT
TCTTAACTTGATCTGAAATCCACAATTAGACCACAATGCACCTTTGGTTGTATCCATAAAGGATGCTAGC
CTTGTACTAATGTTTTATATATT

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FIGURE 2361

MGRKKIQITRIMDERNRQVTFTKRKFGLMKKAYELSVLCDCEIALIIFNSTNKLFOYASTDMDKVLLKYTEYNP
HESRTNSDIVETLRKKGLNGCDSPDPDADDSVGHSPESDKYRKINEDIDLMISRQRLCAVPPPNFEMPVSIPVS
SHNSLVYSNPVSSLGNPNLLPLAHP SLQRNSMSPGVTHRPPSAGNTGGLMGGDLTSGAGTSAGNGYGNPRNSPGL
LVSPGNLNKNMQAKSPPPMNLGMNNRKPDLRVLIIPGSKNTMP SVSEVDLLLNQRINNSQSAQSLATPVVSVAT
PTLPGQGMGGYPSAISTTYGTEYSLSSADLSSLSGFNTASALHLGSVTGWQQQHLHNMPPSALSQLGACTSTHLS
QSSNLSLPSTQSLNIKSEPVSPPRDRTTTTPSRYPOHTRHEAGRSPVDSLSSCSSSYDGSREDHRNEFHSP IGLT
RPSPPERESPSVKRMRLSEGWAT

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FIGURE 2362

CCACCATGCTCGCCCTGGAGGCTGCACAGCTCGACGGGCCACACTTCAGCTGTCTGTACCCAGATGGCGTCTTCT
ATGACCTGGACAGCTGCAAGCATTCCAGCTACCCTGATTTCAGAGGGGGCTCCTGACTCCCTGTGGGACTGGACTG
TGGCCCCACCTGTCCCAGCCACCCCCTATGAAGCCTTCGACCCGGCAGCAGCCGCTTTTAGCCACCCCCAGGCTG
CCCAGCTCTGCTACGAACCCCCACCTACAGCCCTGCAGGGAACCTCGAACTGGCCCCCAGCCTGGAGGCCCCGG
GGCCTGGCCTCCCCGCATACCCACGGAGAACTTCGCTAGCCAGACCCTGGTTCCCCCGGCATATGCCCCGTACC
CCAGCCCTGTGCTATCAGAGGAGGAAGACTTACCGTTGGACAGCCCTGCCCTGGAGGTCTCGGACAGCGAGTCGG
ATGAGGCCCTCGTGGCTGGCCCCGAGGGGAAGGGATCCGAGGGACTCGCAAGAAGCTGCGCCTGTACCAAGTTCTT
GCTGGGGCTACTTGACCGCGCGGGGACATGCGTGAGTGCGTGTGGTGGGTGGAGCCAGGCGCCGGCGTCTTCCAGTT
CTCCTCCAAGCACAAGGAATCCTGGCGCGCCGCTGGGGCCAGCAGAAGGGGAACCGCAAGCGCATGACCTACCA
GAAGCTGGCGCGCGCCCTCCGAACTACGCCAAGACCGGCGAGATCCGCAAGGTCAAGCGCAAGCTCACCTACCA
GTTTCGACAGCGCGCTGCTGCCTGCAGTCCGCCGGGCTGAGCACACCCGAGGCTCCCACCTGCGGAGCCGCTGGG
GGACCTCACGTCCCAGCCAGGATCCCCCTGGAAGAAAAAGGGCGTCCCCACACTCTAGGTGATAGGACTTACGCA
TCCCCACCTTTTGGGGTAAGGGGAGTGCTGCCCTGCCATAATCCCCAAGCCAGCCCGGGCCTGTCTGGGATTCC
CCACTTGTGCCTGGGGTCCCTCTGGGATTTCTTTGTTCATGTACAGACTCCCTGGGATCCTCATGTTTTGGGTGAC
AGGACCTATGGACCACTATACTCGGGGAGGCAGGGTAGCAGTGCTTCCAGAGTCCCAAGAGCTTCTCTGGGATTT
TCTTGTGATATCTGATTCCCCAGTGAGGCCTGGGACCTTTTTAAGATCGCTGTGTGTCTGTAAACCCTGAATCTC
ATCTGGGGTGGGGGCCCTGCTGGCAACCCTGAGCCCTGTCCAAGGTTCCCTCTTGTGAGATCTGAGATTTCCTAG
TTATGTCTGGGGCCCTCTGGGAGCTGTTATCATCTCAGATCTCTTCGCCCATCTATGGCTGTGTTGTACATCTG
TCCCCTCATTTTTGAGATCCCCCAATTCTCTGGAATACTTCTGCTGCCCCTTTTTATGTGTCTGGAGTTCCCCAA
TCACATCTAGGGCTCCTCC

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FIGURE 2363

MLALEAAQLDGP HFSCLYPDGVFYDLD SCKHSSYPDSEGAPDSLWDWTVAPPVPATPYEAFDPAAAAF SHPQAAQ
LCYEPPTYSPAGNLELAPSLEAPGPGLPAYPTENFASQTLVPPAYAPYPSV LSEEDLPLDSPALEVSDSE SDE
ALVAGPEGKGSEGLARSCACTSSCWGY

2602/2682
FIGURE 2364

AGCTTTCTGGGGCAGGCCAGGCCTGACCTTGGCTTTGGGGCAGGGAGGGGGCTAAGGTGAGGCAGGTGGCGCCAG
CAGGTGCACACCCAATGCCCATGAGCCCAGACACTGGACGCTGAACCTCGCGGACAGTTAAGAACCCAGGGGCGCT
CTGCGCCTGGGCCCAGCTCTGTCCACACCGCGGTACATGGCACCACCTCTCTTGACAGCCTCCACCAAGGGCCC
ATCGGTCTTCCCCCTGGCACCTCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGA
CTACTTCCCCGAACCGGTGACGGTGTCTGTGGAACCTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGGCTGT
CCTACAGTCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACCCAGACCTA
CATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGGTGAGAGGCCAGCACAGGGAGG
GAGGGTGTCTGTGGAAGCAGGCTCAGCGCTCCTGCCTGGACGCATCCCGGCTATGCAGCCCCAGTCCAGGGCAG
CAAGGCAGGCCCCGTCTGCCTCTTACCCGGAGCCTCTGCCCCCCCCACTCATGCTCAGGGAGAGGGTCTTCTGG
CTTTTCCAGGCTCTGGGCAGGCACAGGCTAGGTGCCCCCTAACCCAGGCCCTGCACACAAAGGGGCAGGTGCTG
GGCTCAGACCTGCCAAGAGCCATATCCGGGAGGACCCTGCCCCCTGACCTAAGCCCCACCCAAAGGCCAACTCTC
CACTCCCTCAGCTCGGACACCTTCTCTCTCTCCAGATTCCAGTAACTCCCAATCTTCTCTCTGCAGAGCCCAAT
CTTGTGACAAAACCTCACACATGCCACCGTGCCAGGTAAGCCAGCCCAGGCCCTCGCCCTCCAGCTCAAGGCGGG
ACAGGTGCCCTAGAGTAGCCTGCATCCAGGGACAGGCCCCAGCCGGGTGCTGACACGTCCACCTCCATCTCTTCC
TCAGCACCTGAACTCCTGGGGGGACCGTCAGTCTTCTCTTCCCCCAAAACCAAGGACACCTCATGATCTCC
CGGACCCCTGAGGTACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCTGAGGTCAAGTTCAACTGGTACGTG
GACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGGGTGGTCAGC
GTCTCACCCTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGTGCAAGGTCTCCAACAAAGCCCTCCCA
GCCCCCATCGAGAAAACCATCTCCAAAGCCAAAGGTGGGACCCGTGGGGTGCGAGGGCCACATGGACAGAGGCCG
GCTCGGCCCCACCTCTGCCCTGAGAGTGACCGCTGTACCAACCTCTGTCTTACAGGGCAGCCCCGAGAACCACAG
GTGTACACCCTGCCCCCATCCCGGGATGAGCTGACCAAGAACCAGGTACGCTGACCTGCCTGGTCAAAGGCTTC
TATCCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGGGCAGCCGGAGAACAATAACAAGACCACGCCTCCCGTG
CTGGACTCCGACGGCTCCTTCTTCTCTACAGCAAGCTCACCGTGGACAAGAGCAGGTGGCAGCAGGGGAACGTC
TTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAA
TGAGTGCGACGGCCGGCAAGCCCCGCTCCCCGGGCTCTCGCGGTGCGACGAGGATGCTTGGCACGTACCCCTGT
ACATACTTCCCGGGCGCCCAGCATGGAAATAAAGCACCCAGCGCTGCCCTGGGCCCCTGCGAGACTGTGATGGTT
CTTTCCACGGGTACAGCCGAGTCTGAGGCCTGAGTGGCATGAGGGAGGCAGAGCGGGTC

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FIGURE 2365

STKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSL
GTQTYICNVNHKPSNTKVDKKVEPKSCDKHTCPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSH
EDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQP
REPQVYITLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPVLDSDGSFFLYSKLTVDKSRWQ
QGNVFSQVMHEALHNHYTQKSLSLSPGK

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FIGURE 2366

GCCCCGCGCCGCGCCGCTCTTTCTCCGACAGCTGCCGGGGGTGCCCTGCAAGCTGTTCCGCGCGTCCTGCCCCGTCT
GTCCCCGCGGGTTCGTGCCCCGCCACAGCCGCGCCATGACCACCCAGCAGATAGACCTCCAGGGCCCCGGGGCCGTG
GGGCTTCCGCCCTCGTGGGCGGCAAGGACTTCGAGCAGCCTCTCGCCATTTCCTGGGTCCTCTGGAAGCAAGGC
GCTCTAGCTAATTTATGTATTGGAGATGTAATCACAGCCATTGATGGGGAAAATACTAGCAATATGACACACTT
AAGCTCAGAACAGAATCAAAGGCTGCACAGACAACCTTGACTCTCACTGTAGCCAGATCTGAACATAAAGTCTG
CTCTGGTGACGGAGGAAGGGAAGCGTCATCCATACAAGATGAATTTAGCCTCTGAACCCCAGGAGGTCTCT
TAGGAAGCGCCCAACAACCGAAGTGCCATGCCCTTTACCGCCTCGCCTGCCTCCAGCACTACTGCCAGGGT
CATCACAAACCAGTACAACAACCCAGCTGGCCTCTACTCTTCTGAAAATATCTCCAACCTCAACAATGCCCTGGA
AAGACTGCTGCCAGCGGGGTGGAGGCGAACAGCAGACCCCTTAGACCATGCTCAGCCTCCAAGCAGCCTTGT
GACAAAGAATCTGAAGTTTACAAGATGCTTCAGGAGAAACAGGAGTTGAATGAGCCCCGAAACAGTCCAC
TTCTTGTTTTGCAGGAAATCCTGGAGTCTGAAGAAAAGGGGATCCCAACAAGCCCTCAGGATTCAGAAG
TAAAGCTCCTGTCACTAAAGTGGCTGCGTCGATTGGAAATGCTCAGAAGTTGCCTATGTGTGACAAATGTGG
GCGGATTGTTGGTGTGTTTGTGAAGCTGCGGGACCGTCACCGCCACCCTGAGTGTTATGTGTGCACTGACTG
TGACCAACCTGAAACAGAAGGGCCATTTCTTTGTGGAGGATCAAATCTACTGTGAGAAGCATGCCCGGGAGCG
AGTCACACCACCTGAGGGTTATGAAGTGGTCACTGTGTTCCCAAGTGAGCCAGCAGATCTGACCACTGTTCTCC
AGCAGGCCTCTGCTGCAGCTTTTCTCTCAGTGTTCTGGCCCTCTCCTCTCTTGAAAGTTCTCTGCTTACTTTGG
TTTTCCCTCTGCTTGTAACAAATTGAGTCCCCTCCCTGCCTTGTTAATTGACTCACACCAGCTGTGCGATGCCC
GCTTTTACAATTAAAGGAAAACCTGTTTTGTTCAAGTGTACCTTGTGAGCAACACTGTGTCCCTTCGCCCCACCGT
ICTTCTCTGCTGCATTTGGACATCAGCCAAATTTGAACCCAATCAAATATAACGTGTCTGACACTGATTTTGT
TTACTCAATAAATGTATAGACTACAAAAAAAAAAAAA

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FIGURE 2367

MTTQQIDLQGGPWGFRVLVGGKDFEQPLAISRVTPGSKAALANLCIGDVITAIDGENTSNMTHLEAQNRIKGCTD
NLTLTVARSEHKVWSPLVTEEGKRHPYKMNLASEPQEV LHIGSAHNRSAMPFTASPASSTTARVITNQYNNPAGL
YSSENISNFNNALESKTAASGVEANSRPLDHAQPPSSLVIDKESEVYKMLQEKQELNEPPKQSTSFLVLQEILES
EEKGDPNKP SGFRSVKAPVTKVAASIGNAQKLPMCDKCGTGIVGVFVKLRDRHRHPECYVCTDCGTNLKQKGHFF
VEDQIYCEKHARERVTPPEGYEVVTVFPK

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FIGURE 2368

[illegible]

2607/2682
FIGURE 2369

MVEAIVEFDYQAQHDELTVSVGEIITNIRKEDGGWWEQINGRRGLFPDNFVREIKKEMKKDPLTNKAPEKPLH
EVPSGNSLLSSETILRTNKRGERRRRCQVAFSYLPQNDDELELKVGDIIEVVGEVEEGWWEGLNGKTGMFPSN
FIKELSGESDELGISQDEQLSKSSLRETTGSESDDGSSSTKSEGANGLVATAAIQPKKVKGVGFGDIFKDKPIK
LRPRSIEVENDFLPVEKTIGKKLPATTATPDSSKTEMDSRKSKDYCKVIFPYEAQNDELTIKEGDIVTLINKD
CIDVGWWEGLNGRRGVFPDNFVKLLPDPFEKEGNRPKKPPPPSAPVIKQAGTTERKHEIKKIPPERPEMLPNR
TEEKERPEREPKLDLQKPSVPAIPPKPRPPKTNLSRPGALPPRRPERPVGPLTHTRGDSPKIDLAGSSLSGIL
DKDLSDRSNDIDLEGFDSVVSSTEKLSHPTTSRPKATGRRPPSQSLTSSSLSSPDIFDSPSPEEDKEEHISLAHR
GVDASKKTSKTVTISQVSDNKASLPPKPGTMAAGGGGPAPLSSAAPSPPLSSSLGTAGHRANSPSLFGTEGKPKME
PAASSQAAVEELRTQVRELRSIETMKDQOKREIKQLSELDEEKKIRLRLQMEVNDIKKALQSK

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FIGURE 2370

CCCCGTTCTGGAGTGTTATCGTCACCAATGTCCCTAATGGTCTCGGCTGGCCGGGGCCTGGGGGCCGTGTGGTCCC
CAACCCACGTGCAGGTGACGGTGCTGCAGGCGCGGGGCCTGCGGGCCAAGGGCCCCGGGGGCACGAGCGACGCGT
ACGCGGTGATCCAGGTGGGCAAGGAGAAGTACGCCACCTCCGTGTGCGAGCGCAGCCTGGGCGCGCCCGTGTGGC
GCGAGGAGGCCACCTTCGAGCTGCCATCGCTGCTGTCTCCGGACCCGCGGCCGCCGCCACCCTGCAGCTCACCG
TGCTGCACCGCGCGCTGCTCGGCCTCGACAAGTTCTGGGCCGCGCCGAGGTGGACCTGCGGGATCTGCACCGCG
ACCAGGGCCGCAGGAAGACGCAGTGGTATAAGTTGAAATCCAAACCAGGAAAGAAGGACAAGGAGCGAGGAGAAA
TTGAGGTGACATCCAGTTTATGAGAAACAACATGACTGCCAGCATGTTTGACCTTTCTATGAAAGACAAGTCTC
GGAATCCATTTGGAAAGCTGAAGGACAAGATCAAGGGGAAGAATAAGGACAGTGGGTGAGACACCGCCTCCGCCA
TCATCCCTAGCACGACACCTTCGGTCGACAGTGATGATGAGTCTGTGGTTAAAGACAAGAAAAAGAAATCAAAGA
TCAAGACCTTACTTTCCAAGTCAAATTTGCAGAAGACGCCCTCTTTCCAGTCCATGTCTGTCTCTGCCGACTTCAA
AGCCAGAAAAAGTGCTGCTTCGTCCCGGAGACTTTCAGTCCCAGTGGGATGAAGATGACAATGAGGATGAGTCCT
CCTCGGCCTCGGATGTCTATGTCTCACAAGAGAACAGCGAGTACGGATCTTAAGCAACTGAACCAGGTCAACTTTA
CCCTTCCCAAGAAGGAAGGACTTTCTTTCTTGGTGGCCTTCGGTCTAAGAATGATGTCTTTCCCGCTCTAATG
TCTGCATCAATGGGAACCATGTTTACCTGGAGCAGCCCCAACCCACCGGTGAGATCAAGGATAGCAGCCCGTCCT
CCTCCCCATCCCCCAAGGGTTTCAGAAAGAAAACATTGTTCTCTTCTACAGAGAACCTGGCGGCTGGGTCTTGGA
AGGAGCCTGCTGAAGGAGGTGGGCTGTCTACTGACAGGGATGTCTCCGAATCTTCCACCAAGGACTCCTTGAAGT
CTATGACCTTGCCGACCTACCGACCTGCCCCACTGATCAGTGGGGACCTCAGGGAAAAAATGGCCCCCGCAAACCT
CAGAGGCCACAAAAGAAGCTAAGGAGAGCAAGAAGCCAGAGAGCAGGAGGTCTCTTTGCTGTCTCTGATGACGG
GGAAGAAGGATGTGGCTAAGGGCAGTGAAGGTGAAAACCTTCTCACGGTCCCAGGGAGGGAGAAGGAAGGCATGC
TGATGGGGGTTAAGCCGGGGGAGGACGCATCGGGGCCTGCTGAAGACCTTGTGAGAAGATCTGAGAAAGATACTG
CAGCTGTTGTCTCCAGACAGGGCAGCTCCCTGAACCTCTTTGAAGATGTGCAGATCACAGAACCAGAAGCTGAGC
CAGAGTCCAAGTCTGAACCGAGACCTCCAATTTCTCTCCGAGGGCTCCCCAGACCAGAGCTGTCAAGCCCCGAC
TTCATCCTGTGAAGCCAATGAATGCCACGGCCACCAAGGTTGCTAACTGCAGCTTGGGAACTGCCACCATCATCA
GTGAGAACTTGAACAATGAGGTGATGATGAAGAAATACAGCCCCTCGGACCCTGCATTTGCATATGCGCAGCTGA
CCCACGATGAGCTGATTCAGCTGGTCTCAAACAGAAGGAAACGATAAGCAAGAAGGAGTTCCAGGTCCGCGAGC
TGGAAGACTACATTGACAACCTGCTTGTGAGGGTCATGGAAGAAACCCCAATATCCTCCGCATCCCGACTCAGG
TTGGCAAAAAAGCAGGAAAGATGTAAATCAGCAGAAAAAAAACACCGAGACGTTTCTGTGACTTCACTTTACCT
GCTCCAGGGGTCAAGGACTTGCCTTGCCTGATAACCAGCCAGCAGGCTCCGAATCACCATCTCCCTCACATGTTA
TCCGGCAAGAGT

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FIGURE 2371

MSLMVSAGRGLGAVWSPTHVQVTVLQARGLRAKPGGTSDAYAVIQVGKEYATSVSERSLGAPVWREEATFELP
SLLSSGPAAAAATLQLTVLHRALLGLDKFLGRAEVDLRDLHRDQGRRKQTQWYKLKSKPGKKDKERGEIEVDIQFMR
NNMTASMFDL SMKDKSRNPFGKLKDKIKGKNKDSGSDTASAIIPSTTPSVDSDDSVVKDKKKKSKIKTLLSKSN
LQKTPLSQSMSVLPTSKPEKVLLRPGDFQSQWDEDDNEDESSASDVMSHKRTASTDLKQLNQVNF TLPKKEGLS
FLGGLRSKNDVLSRSNVCINGNHVYLEQPQPTGEIKDSSPSSSPSPKGFRKKTLSSTENLAAGSWKEPAEGGGL
STDRDVSESSTKDSLKSMTLPTYRPAPLISGDLREKMAPANSEATKEAKESKKPESRRSSLLSLMTGKKDVAKGS
EGENLLTVPGREKEGMLMGVKPGEDASGPAEDLVRREKDTAAVVSROGSSLNLFEDVQITEPEAEPESEKSEPRP
PISSPRAPQTRAVKPRLHPVKPMNATATKVANCSLGTATII SENLNNEVMMKKYSPSDPAFAYAQLTHDELIQLV
LKQKETISKKEFQVRELEDYIDNLLVRVMEETPNILRIPTQVGKKAGKM

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FIGURE 2372

AGCTGGGGCGCGGCCCGCCTGTCTGCACAGACAGCACCATGTCGCTCATGGTCGTCAGCATGGTGTGTGTTGGGTT
CTTCTTGCTGCAGGGGGCCTGGCCACATGAGGGAGTCCACAGAAAACCTTCCCTCCTGGCCCACCCAGGTCCCCCT
GGTGAAATCAGAAGAGACAGTCATCCTGCAATGTTGGTCAGATGTCAGGTTTCAGCACTTCCTTCTGCACAGAGA
AGGGAAGTTTAAGGACACTTTGCACCTCATTGGAGAGCACCATGATGGGGTCTCCAAGGCCAACTTCTCCATCGG
ATGATGCAAGACCTTGCAGGGACCTACAGATGCTACGGTTCTGTTACTCACTCCCCCTATCAGTTGTCAGC
AGTGACCCTCTGGACATCGTCATCACAGGTCTATATGAGAAAACCTTCTCTCTCAGCCCAGCCGGGCCCCAC
CTGGCAGGAGAGAGCGTGACCTTGTCTGTCAGCTCCCGGAGCTCCTATGACATGTACCATCTATCCAGGGA
GGGGGAGGCCCATGAACGTAGGTTCTCTGTCAGGGCCCAAGGTCAACGGAACATTCCAGGCCGACTTTCCTCTGGG
TGCCACCCACGGAGGAACCTACAGATGCTTCGGCTCTTTCCGTGACTCTCCATACGAGTGGTCAAACCTCGAG
TCCCACTGCTTGTCTTCTGTGCACAGGAAACCCCTTCAAATAGTTGGCCTTCACCCACTGAACCAAGCTCCGAAAC
TAAACCCAGACACCTGCATGTTCTGATTGGGACCTCAGTGGTCATCATCCTCTTCATCCTCCTCCTCTTCTT
CTTTCATCGCTGGTGCTGCAACAAAAAAATGCTGTTGTAATGGACCAAGAGCCTGCAGGGAACAGAACAGT
AACAGGGAGGACTCTGATGAACAAGACCCCTCAGGAGGTGACATATGCACAGTTGAATCACTGCGTTTTACACA
GAGAAAAATCACTCGCCCTTCTCAGAGGCCCAAGACACCCCAACAGATATCATCGTGTACACGGAACCTTCCAAA
TGCTGAGCCCTGATCCAAAGTTGTCTCCTGCCCATGAGCACCACAGTCAGGCCTTGAGGGGATCTTCTAGGGAGA
CAACAGCCCTGTCTCAAACCTGGGTGCCAGCTCCAATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTGCAT
CTTAGGGCATCGCTCTTCTCACACCACAAATCTGAACGTGCCTCTCCCTTGCTTACAAATGTCTAAGGTCCCCA
CTGCCTGCTGGAGAGAAAAACACACTCCTTTGCTTAGCCACAAATTCTCCATTTCACTTGACCCCTGCCCACCTCT
CCAACCTAACTGGCTTACTTCCTAGTCTACTTGAGGCTGCAATCACACTGAGGAACCTACAATTCCAAACATACA
AGAGGCTCCCTCTTAACACGGCACCTTAGACACGTGCTGTTCCACCTTCCCTCATGCTGTTCCACCTCCCCCTCAGA
CTAGCTTTTCAGCCTTCTGTGTCAGCAGTAAACCTTATATATTTTTTAAATAATTCAATGTAGTTTTCCCTCCTTC
AAATAAACATGTCTGCCCTCA

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FIGURE 2373

MSLMVVSMVCVGFFLLQGAWPHEGVHRKPSLLAHPGPLVKSEETVILQCWSDVRFQHFLHREGKFKDTLHLIGE
HHDGVSKANFSIGPMMQDLAGTYRCYGSVTHSPYQLSAPSDPLDIVITGLYEKPSLSAQPGPTVLAGESVTLSCS
SRSSYDMYHLSREGEAHERRFSA GPKVNGTFQADFPLGPATHGGTYRCFGSFRDSPYEWSNSSDPLLVSVTGNPS
NSWPSPTEPSSETGNPRHLHVLIGTSVVIILFILLFFLLHRWCCNKKNAVVM DQEPAGNRTVNREDSDEQDPQE
VTYAQLNHCVFTQRKITRPSQRPKTPPTDIIVYTELPNAEP

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FIGURE 2374

GGTGACCAAGAGTACATCTCTTTTCAAATAGCTGGATTAGGTCCTCATGCTGCTGTGGTCATTGCTGGTCATCTT
TGATGCAGTCACTGAACAGGCAGATTTCGCTGACCCTTGTGGCGCCCTCTTCTGTCTTCGAAGGAGACAGCATCGT
TCTGAAATGCCAGGGAGAACAGAACTGGAAAATTCAGAAGATGGCTTACCATAAGGATAACAAAGAGTTATCTGT
TTTCAAAAAATCTCAGATTTCTTATCCAAAGTGCAGTTTTAAAGTGACAGTGGTAACTATTTCTGTAGTACCAA
AGGACAACCTCTTTCTCTGGGATAAACTTCAAATATAGTAAAGATAAAAGTCCAAGAGCTCTTTCAACGTCCTGT
GCTGACTGCCAGCTCCTTCCAGCCCATCGAAGGGGGTCCAGTGAGCCTGAAATGTGAGACCCGGCTCTCTCCACA
GAGGTTGGATGTTCAACTCCAGTTCTGCTTCTTCAGAGAAAACCAGGTCCTGGGGTCAGGCTGGAGCAGCTCTCC
GGAGCTCCAGATTTCTGCCGTGTGGAGTGAAGACACAGGGTCTTACTGGTGCAAGGCAGAAACGGTGACTCACAG
GATCAGAAAACAGAGCCTCCAATCCCAGATTACGTCAGAGAAATCCCCATCTCTAATGTAAGCTTGGAGATCCG
GGCCCCCGGGGACAGGTGACTGAAGGACAAAACTGATCCTGCTCTGCTCAGTGGCTGGGGGTACAGGAAATGT
CACATTCTCTGGTACAGAGAGGCCACAGGAACCAGTATGGGAAAGAAAACCCAGCGTTCCCTGTCTCAGCAGAGCT
GGAGATCCCAGCTGTGAAAGAGAGTGATGCCGGCAAATATTACTGTAGAGCTGACAACGGCCATGTGCCTATCCA
GAGCAAGGTGGTGAATATCCCTGTGAGAATTCCAGTGTCTCGCCCTGTCTCACCCTCAGGTCTCCTGGGGCCCA
GGCTGCAGTGGGGGACCTGCTGGAGCTTCACTGTGAGGCCCTGAGAGGCTCTCCCCCAATCTTGTACCAATTTA
TCATGAGGATGTACCCTTGGGAACAGCTCGGCCCTCTGGAGGAGGGGCTCTTCAACCTCTCTTTGACTGC
AGAACATTCTGGAACTACTCTGTGAGGCCAACACGGCCTGGGGGCCAGTGTCAGTGAGGCAGTGCCAGTCTC
CATCTCAGGACCTGATGGCTATAGAAGAGACCTCATGACAGCTGGAGTTCTCTGGGGACTGTTTGGTGTCTTGG
TTTCACTGGTGTGCTTTGCTGTTGTATGCCTTGTTCCACAAGATATCAGGAGAAAGTTCTGCCACTAATGAACC
CAGAGGGGCTTCCAGGCCAAATCCTCAAGAGTTCACCTATTCAAGCCCAACCCAGACATGGAGGAGCTGCAGCC
AGTGTATGTCAATGTGGGCTCTGTAGATGTGGATGTGGTTTATTCTCAGGTCTGGAGCATGCAGCAGCCAGAAAG
CTCAGCAAACATCAGGACACTTCTGGAGAACAAGGACTCCCAAGTCATCTACTCTTCTGTGAAGAAATCATAACA
CTTGGAGGAATCAGAAGGGAAGATCAACAGCAAGGATGGGGCATCATTAAAGACTTGCTATAAAACCTTATGAAA
TGCTTGAGGCTTATCACCTGCCACAGCCAGAACGTGCCTCAGGAGGCACCTCCTGTCAATTTTGTCTGATGATG
TTTCTTCTCCAATATCTTCTTTTACCTATCAATATTCATTGAACTGCTGCTACATCCAGACACTGTGCAAATAAA
TTATTTCTGCTACCTTCTCTTAAAGCAATCAGTGTGTAAAGATTTGAGGGAAGAATGAATAAGAGATACAAGGTCT
CACCTTCATCTACTGTGAAGTGATGAGAACAGGACTTGATAGTGGTGTATTAATTATTTATGTGCTGCTGGATA
CAGTTTGCTAATATTTTGTGAGAATTTTGCAAATATGTTCAATTGGGAATATTGGCCTGAAATTTCTTTTCCA
CTGTGTCTCTGCCAGAATGTTTGTATCAGGCTGATGCTGGCTTCATAGAATGAGTTAGGCAGGAGCCCTTCTCTC
TTGATTTTTTGGCATAGTTTACGAGGATTGGTACCAGTTATTCTTTCTGCATCTTGTAGAATTCAGCTATGAAT
CCATCTGGTCTAGGGCTTTTGTGTTGGTTGGTAAGTTTTTATTACTAATTCAACTTCAGCGTTGATATTGGTC
TAGGAGGGGTTTCTGTCTCTTCTGTTTCAATCTTGGGAGATTGTGTGTTTCCAGGAATTTAGCCGTTTCTCTCA
GATTTTCTTCTTTATGTGCATCGACTTGAGTGTAACATAACTTATATGCACTGGGAAACCAAAAAATCTGTGTG
ACTTGCTTTATTGCAGCATTTGTTTTATTTTGGTAGTCTGGAAGTGAACCTGCAATATCACCAAAGTATGCATAT
AGTTGCAAAAATGTGATTTTTGACATAGTAAATATGAGTATTTGCAATAAACTATGATATTACTTTTGTAAGTAT
ATAGAATAAAATGTAAATAATCT

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FIGURE 2375

MWEWKICNSHGARPFAEPAGWEFVNLLRHHKSFLIAPLCLSVPVSRPVLTLRSPGAQAAVGDILLELHCEALRGSP
PILYQFYHEDVTILGNSSAPSGGGASFNLSLTAEHSGNYSCEANGLGAQCSEAVPVVISGGWVLPGYRV

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FIGURE 2376A

ACTTGGCAAATCCGAAGATTTTCCGGGATCTTTCAAAGCCCATGGGGGCTCAGACCAAGGAAAGGAAGCTGAAAT
TTATCCAGAGGTTTAAAGAAGTTGAGAAAAGTGAAGGAGACATGACTGTCCAGTGCCACTACTACACCCACTACT
CCTCGGCCATCATCGTGGCCTCCTACCTGGTCCGGATGCCACCCTTCACCCAGGCCTTCTGCGCTTTGCAGGGCG
GAAGCTTCGACGTGGCAGACAGAATGTTCCACAGTGTGAAGAGCACGTGGGAGTCGGCCTCCAGAGAGAATGA
GTGACGTGACGGGAGCTGACCCAGAGTTCTTCTACCTGCCTGAGTTCTTAACCAACTGCAACGGGGTAGAGTTG
GCTGCATGCAGGACGGGACTGTGCTAGGAGACGTGCAGCTCCCTCCCTGGGCTGATGGGGACCCTCGGAAATTCA
TCAGCCTGCACAGAAAGGCCCTGGAAAGTGACTTTGTGAGTGCCAACTCCACCATTGGATAGACCTTATTTTTG
GGTACAAGCAGCAGGGGCCAGCCGAGTGGATGCTGTTAATATCTTCCACCCCTACTTCTACGGTGACAGAATGG
ACCTCAGCAGCATCACTGACCCCTCATCAAAGCACCATCCTGGGGTTTGTGACCACTTTGGACAGGTGCCCCA
AACAGCTCTTTACCAAACCTCACCCAGCCAGGACTGCAGCAGGGAAGCCTCTGCCTGGAAAGGATGTCTCCACCC
CCGTGAGCCTGCCTGGCCACCCACAGCCCTTTTTCTACAGCCTGCAGTCGCTGAGGCCCTCCAGGTACGGTCA
AAGGTGATTCCCTGGCCATGCATTGTTTTGGTGTCTGTCCAGGGTTGTCCCTCAGTGGCTGGGTTCCTCTGGA
GGTCCAGCACCACATACCTGGGCAAAGTATTGGGGACTGACTTTGAATGGCTGCATCTCCAGTCACAGCCAGATT
CTAGGGGGGTGTCTCTGGAAGTGTCTAGGAGCTCCTCTGTTAGACCCTAACTTCTGAAGACCCACGTCTCT
CTGTCTTTCTGTCTGTCTCTCTCACACACATACACACAGACACCTCTTTCAGGCACACACACATCTCTCTT
CCTCTTCTCTCTTTTATACATGCACACACATGTACACACACATACCTTCTCTCTCAAGAGACCAGTGGAGA
GTCCCAAGTTTACAAGGAAGGATTACAGCCTCTGTGCTTTGGCCACTGGTCCTCCTAAGCAGGGCAGGGGACTA
AGCTAAGCACTCTAAGCAGGCAGCCAGTAGCTAAGAACATGTGCTCTGGGGCAGATGGCCCAGGAGTGCATTCCA
GTCCTACTGCTTCTGACTGTGTGACCTTGGGCAAGCCATTGAACCTCCTTGTTCACGGGGATTGGAATAGCA
TTGAATGGATGCTACTACAGATTTGTATTGATGCTTAGATAAATGAGCCTGCAGAGAGTTGGTGAGGAAAAGATG
AAAAACATGAGAAATAGGTTGAGCCAGTGAAGGGAGCCATGTGATTTAGGGAGGGAAGAGGGTCACTCTGGCCCT
ATTATTGAGAAACAGTTCTTCCAGGGACCAGGGGCTCCTCAACAAGGCCAGTCAGCAAGAGCGCAATGAGATGGG
CCACCTTCGGTGCCAGCACATAGTGGTGATTATTAGTCCATCTCTTCTGACCATAATTAGTGGCTTCCTTGGC
TGCCACCAAGGCTCAGAGAGGCTCTATAGAAGCAGGAGTCCACTGGGGTGGGGGTGGTTCCACTGGGGTGGGGGT
GGTCCCAACCAGCCCAGGAGGGAGGATCTCCAGATGGAAGCAGAAGAGAGGGTGAGGCTGGGTTCCTAGGGCCA
TGTATGTATGAAGTCGGGTGCCAGTGTCTGAGGACATGCACTGCCTTGGGGAAATCCCACTACACTGAACAA
CATGCAGGTCCCAAGGAGTATGAAGTTAAGTTTTCAATGGTTTTAGTGGTGTCTTTTTATCCTTGAAGTCCAA
GAACAGTGTCAATTGGCACACCCACCCTGGTAGATAAGGTGCTACTGCTCTTGGCTCTGGGGACCATGCCTCCAT
TTGCCCCAGGACTGGGGATCCGCTGCTGCATTGAAGTCCCTGGGCAGTCAGGCACAGCCCTGCCCTCATGGAAA
GGGACATGAGGTGCAAACCACATCAACAGTAACAAGGGAGCTCAAATCTCCCATGTGGGGCTCCAGGAGACTGATG
CAGATCTTACCAGCCACGGGTCTGGGGATCCTTCTGAGGCTCAGTTTCTTCATGTGTAAGGTATGGAAGACAA
TGGCCCTGCCCTCAGGCTTGTGACAGTGCCATGAAGTGGTGTCTGTACACAGGCAGGCAACAAGCCAGCGCTGA
GGCAGGAGTCTTGGCAGATGCTGGTGCCACTCCGAGCACACACACTGGGCCTTGCTTTAAGGGGCTGGCTTTAC
TCTCTCCCTTTGATCTGAGCAGCCCCAGAAGGTAAGGGCCATTGATGCCACAGTCCCTTCCCTATGGGGAGAGAC
ATCTCACAGTCTTATCCTGGAGCCTTTCCTGAATCCTGCTCCCTCTCTTCTCTCTGGGTGGTAGGGTCAGGAAGA
GGGTGGTTCTCCCACTTCACCCAGCACAGGGCAAGGAAGGGAGTGGCCCCCACCAGGAGGAAGGAAAGGCCCTA
CGTGGTGGGTATGGTGTGCACAGTCTTAGAACTAGGCTGGCCTCAGTGTGTTTGAAGTCAACAAGCTGCACCAGGC
TCTGTGCCAGGGGACACACATTGAAAGGGGCATGGTTTTCTCTACTCCATGGGAAGAGGCTAGGGTCTGAAGAGA
TGGAATGACTTCACCAGCATAACCAGACTTGAATGAGGTCTGGGCAGCTCCAAATCCCGTGTGTGAGCCATAT
TCCAGCTGGGGCTGGGGGTGGCTCCAGAGTGGAGCTGAGGGAGGATGGGAATTGTGCCTCCCTGTGACTCCTGC
CCCGGGGCCCCGGCTACAGTGGGTGCTGTCTTCTGTGCATAAGTTCAAGTCCAGTGTGTCTGCCTGTGACTCCTG
CCCAGGGCCCAGCTGCAGTGGGTGCTGTCTTCCATGCTTAAGTTCAAGTCCAGTGTGTCTGCCTGTGACTCCTG
CCTGGGGGCCAGCTGTAGTGGGTGCTGTCTTCCATGCATAAGTTCCGCATACTAACTGGGGGTGTAGATATGTA
CCTCTTTTCTCTAGGCTCAGAGTCCCCCAAAGGGGCCATTGGCCACATTGTCTCTACTGAGAAGACCATTTCTGGC
TGTAGAGAGGAACAAAGTGCTGCTGCCTCCTCTCTGGAACAGGACCTTCAGCTGGGGCTTTGATGACTTCAGCTG
CTGCTTGGGGAGCTACGGCTCCGACAAGGTCTGATGACATTCGAGAACCTGGCTGCCTGGGGCCGCTGTCTGTG
CGCCGTGTGCCCATCCCCAACACGATTGTACCTCTGGGACCAGCACTGTGGTGTGTGTGTGGGAGCTCAGCAT
GACCAAAGGCCGCCCGAGGGGCTTGCCTCCGGCAGGCCTTGTATGGACACACACAGGCTGTACGTGCCTGGC

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FIGURE 2376B

AGCGTCAGTCACCTTCAGCCTCCTGGTGAGCGGCTCCCAGGACTGCACCTGTATCCTGTGGGATCTGGACCACCT
CACCCACGTGACCCGCCTGCCCCGCCATCGGGAAGGCATCTCAGCCATCACCATCAGTGACGTCTCAGGCACCAT
TGCTCTCCTGTGCGGGAGCACACTTGTCCTGTGGAATGTCAATGGACAGCCCCTGGCCAGCATCACCACAGCCTG
GGGCCCAGAAGGAGCCATAACCTGCTGCTGCCTGATGGAGGGCCAGCATGGGACACAAGCCAGATCATCATCAC
CGGGAGTCAAGACGGCATGGTCCGGGTTTGGAAGACTGAGGATGTGAAGATGTCTGTTCCCTGGACGGCCAGCAGG
AGAGGAGCCCCCGGCTCAGCCTCCAAGCCCAAGAGGCCACAAGTGGGAGAAGAACCTGGCCTTGAGTCGAGAGCT
GGACGTTAGCATTGCTTTGACAGGGAAGCCAGCAAAACCAGCCCCGCAGTGACTGCTCTGGCCGTGTCCAGAAA
CCACACCAAACCTCCTGGTTGGTGATGAGAGGGGGAGAATATTCTGCTGGTCTGCAGATGGGTAGGAAGAGAGAGG
CAGCAGAGGCTCTGGCACAACAGTGCCAGGCTGAGGGTGGCAGAGGTGACTGGGGCCTGAGCTCTGCCTACAGAA
GAAACCCCCAGGGCTCCTTCCCCACAGTTCTCAAGGAAGGGCCTCTGGCAATCACAGCTCTGCAGCCCAACCCT
CTCCATGGCCGATGGGACTTCTATGAAAAGGATGAGCACACACACTCGGAGGGCTGAGCAGCACGCTGGAAACTG
TGACTTGGTGATGCCAGCTGCACACGAAATTACACATGACTCACCTTATTAAGGGCTATTGCACTGAAAAAAA
AAAAGATGGGTCGCTTACTGGAAATTATTGTATTGTCTTTATTTTATTAAAGCAACTATGTTTTAAATGC

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FIGURE 2377

CTGTGACAGACGGCACTCACACTGATTTCTATGTCCTACCAGACACTGCCCTGGCGACACACAAACCTCAAGTAA
TGAGGGTCCAGATAAGATCATTAGACAATAGGCTTCCCCAGATTACTACCAACAGGGGTGCCCCAGCCTTGAAGC
GCCCTTCACACTGGACACATGGGCTTCCTGATTACCAGCAAGTCTCTGAAGGCAGAAGATCAGGACAGTCCCCACA
GGCTTCTGAAGTATAAAGTGACCAGAGGACCAGAGCATGGCTTCATTATCAAACTGGCCTTGGAACCAGAGCA
AGTGTGTTACACAAGCTGACATTGATGAGATGAAGATATCCTATGTCTTGAATGAGGGCAGCAACGCATCAA
AATCTTCTATTTCTCTGTTGAAGACAATGGAGGAAATAAACTAACAAATCAGCCTTTCATCTAACTGGG
GATTTGTTTGGAGAAAGAGTACTACATTGTGGATGAAGATTCCACATTCTTAGAAGTGACCCTTACACGCA
GAGGATACCTTGGAGAAACATCATTTATCAGCATTGGTACCAGATGAACTGCAAAAAAAGACAAAGATTCA
GAAGACCAATAAACAGATCCAGTTCAAT

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FIGURE 2378

VTDGTHTD FYVLPDTALATHKPQVMRVQIRSLDNRLPQITTNRGAPALKRLHTGHMGFLITSKSLKAEDQDSPHR
LLKYKVTRGPEHGFIIKTGLGNQSTRVFTQADIDEMKISYVLNEGSNASKDIFYFSVEDNGGNKLTNQPFHLNWA
WICLEKEYYIVDEDSTFLEVTLTRRGYLGETSFISIGTKDETAKKDKDFKWKTNKQIQF

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FIGURE 2379

GTGCCAACCAAACCCCTGAACAGAGGAGGTGGCGGTGGTGGCCCTCGCCTGTGGCCCCCGTGCTGCTTGCACTCGA
ACTCGTCGCCATGGAGGAGCTCCAGGAGCCTCTGAGAGGACAGCTCCGGCTCTGCTTCACGCAAGCTGCCCGGAC
TAGCCTCTTACTGCTCAGGCTCAACGACGCTGCCCTGCGGGCGCTGCAAGAGTGTGAGCGGCAACAGGTACGGCC
GGTGATTGCTTTCCAAGGCCACCGAGGGTATCTGAGACTCCCAGGCCCTGGTTGGTCCTGCCTCTTCTCCTTCAT
AGTGTCCCAAGTGTGTCAGGAGGGCGCTGGTGGTAGCTTGGACCTTGTGTGCCAACGCTTCCTCAGGTCTGGGCC
TAACAGCCTCCACTGCCTGGGCTCACTCAGGGAGCGCCTCATTATTTGGGCAGCCATGGATTCTATCCCAGCCCC
ATCATCAGTTCAGGGACACAACCTGACTGAAGATGCCAGACATCCTGAGAGTTGGCAGAACACAGGAGGCTATTCT
TGAAGGAGATGCAGTATCACAGCCACAGATGGCACTAGAGGAGGTGTCAGTGTGAGATCCACTGGCAAGCAACCA
AGGACAGTCACTCCCAGGATCCTCAAGGGAGCACATGGCACAGTGGGAAGTGAGAAGCCAGACCCATGTTCCAAA
CAGAGAACCTGTTTCAGGCACTGCCTTCCTCTGCCAGCCGAAACGCTCTGGACAAGAAACGTTTCAGTGCCTGTAGC
CACTGTAGAACTGGAAGAAAAGAGGTTTCAAGAACTCTGCCTTTAGTGCCAAGCCCCCTACAAGGCCTGACCAATCA
GGATTTACAAGAGGGGAGAAGATTGGGAGCAAGAAGATGAGGACATGGACCCAGATTAGAACACAGTTTCTCAGT
TCAAGAAGATTCTGAATCCCCAAGTCCTGAAGATATACCAGACTACCTCCTGCAATACAGGGCCATCCACAGTGC
AGAACAGCAACATGCCTATGAGCAGGACTTTGAGACAGATTATGCTGAATACCGCATCCTGCATGCCCCGTGTTGG
GACTGCAAGCCAAAGGTTTCATAGAGCTGGGAGCAGAGATTAAAAGAGTTCGGCGAGGAACTCCAGAATACAAGGT
CCTGGAAGACAAGATAATCCAGGAATATAAAAAGTTCAGGAAGCAGTACCCAAGTTACAGAGAAGAAAAGCGTCG
CTGTGAGTACCTTCACCAGAAATTGTCCACATTAAAGGTCTCATCCTGGAGTTTGAGGAAAAGAACAGGGGCAG
CTGAAGTTATCAAGGGAATTTTTGAGCCTCTGCTTAGTGAAACACAAAGGAACAAAGCAGCTATAAACTAAATAG
AATGCAACTATCTGCTTTTCTTATGCTGACCACTGGAGTCCATGGTGGCAAGTAGAGAGCTGCTCTAGGTTCTTG
AGGTTTGGTTTTTCATTATTAATTTTTAGGGTATGGGCACTGTGCAAGACTCCATAGCTGTGCCTAGGAGTCTAG
GAAAAGTGACAGAGGCTTGGCTTTTTTACCTTTAGTTCAGCCAAGTCATTTTCAAGTCCTGAGAAATGACATCAT
CTTCAGGATAAAATAATGAGGACATTAGACAAACCAAACCTAAGTGAATTTTAGCCTGGTAGCCTCTCTAAGGAAA
CAGTAATAATAACTTCTGATAAGAGTTAAAGAAGTGTAGCATACCTGGATATAATGGGAAAGGGCCTGGGTGT
TACCCATGTACTGAAAATGAACTTTTACCAACATGGCTAAAAAATTAAGGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2380

MEELQEPLRGQLRLCFTQAARTSLLLLRLNDAALRALQECQRQQVRPVIAFQGHRYLRLPGPGWSCLSFIVSQ
CCQEGAGGSLDLVCQRFLRSGPNSLHCLGSLRERLI IWAAMDSIPAPSSVQGHNLTEDARHPESWQNTGGYSEGD
AVSQPQMALEEVSVDPLASNQGQSLPGSSREHMAQWEVRSQTHVPNREPQALPSSASRKRLDKKRSVPVATVE
LEEKRFRTLPLVPSPLQGLTNQDLQEGEDWEQEDMDPRLEHSSSVQEDSESPSPEDIPDYLLQYRAIHSAEQQ
HAYEQDFETDYAEYRILHARVGTAQRFIELGAEIKRVRRGTPEYKVLEDKIIQEYKKFRKQYPSYREEKRRCEY
LHQKLSHIKGLILEFEEKNRGS

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FIGURE 2381

ATGGAAGCCCCAGCTCAGCTTCTCTTCCTCCTGCTACTCTGGCTCCCAGATACCACCGGAGAAATTGTGTTGACA
CAGTCTCCAGCCACCCTGTCTTTGTCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTGGC
AGCTACTTAGCCTGGTACCAACAGAAACCTGGCCAGGCTCCCAGGCCCTCATCTATGATGCATCCAACAGGGCC
ACTGGCATCCCAGCCAGGTTTCACTGGCAGTGGGTCTGGGACAGACTTCACTCTCACCATCAGCAGCCTAGAGCCT
GAAGATTTTGCAGTTTATTACTGTCAACACCGTGACAATTGGCCTCCGGGGGCCACTTTCGGCGGAGGGACCAAG
GTGGAGATCAAACATAACCACCGGAGAAATTGTGTTGACACAGTCTCCAGCCACCCTGTCTTTGTCTCCAGGGGAA
AGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTGGCAGCTACTTAGCCTGGTACCAACAGAAACCTGGCCAG
GCTCCCAGGCCCTCATCTATGATGCATCCAACAGGGCCACTGGCATCCCAGCCAGGTTCACTGGCAGTGGGTCT
GGGACAGACTTCACTCTCACCATCAGCAGCCTAGAGCCTGAAGATTTTGCAGTTTATTACTGTCAACACCGTGAC
AATTGGCCTCCGGGGGCCACTTTCGGCGGAGGGACCAAGGTGGAGATCAAACGAACTGTGGCTGCACCATCTGTC
TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAGTGCCTCTGTTGTGTGCCTGCTGAATAACTTCTAT
CCCAGAGAGGCCAAAGTACAGTGGAAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTACAGAG
CAGGACAGCAAGGACAGCACCTACAGCCTCAGCAGCACCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAA
GTCTACGCCTGCGAAGTCACCCATCAGGGCCTGAGCTCGCCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTAG
AGGGAGAAGTGCCCCCACCTGCTCCTCAGTTCCAGCCTGACCCCTCCCATCCTTTGGCCTCTGACCCTTTTCC
ACAGGGGACCTACCCCTATTGCGGTCTCCAGCTCATCTTTCACCTACCCCCCTCCTCCTCCTTGGCTTTAATT
ATGCTAATGTTGGAGGAGAATGAATAAATAAAGTGAATCTTTGC

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FIGURE 2382

AAATAAAGATGGTTCTTAACTTTTAAATTAAGATTTTAAATTAAGATGAATCTTGATTTTTAAATTAGTATGGT
TTTAAGATAGTTTTACAGATAGATTAGATAATCTATCTAGAGATAGACAGGGAGAGATATCTATCAATACATATC
TCTATCTAGATATAGATAGATGGTTTTCTATATAGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTATATCTACATCTGTATTTCTACATGTATATAGGTATGTATATATCTA
CATGTATATATGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
CTACATGTATTACATAGATAGGGTAATTACTGATAAATCCTTTGGTCTTCTTTGTAAATCTCTGGGCTAAAGACC
CCTCCAGTATTATACGTGTTCTGGTCTAGATTGCTCACTCACCGGTTCTCCTCACTATCTAGAGAAGATCCACTT
AGCAGGCCTCCCCTTAAAGAAGGGCACCTTAACTGGACTCACTCCTCCCATAGTAGACTGCACAGTACACAAGCA
GAAGAGGAGAGCTCAATAATAAAGTCACCATAAAGGATAATTTTTAAATGAATAAAGACATCAGAAAATCCAGTA
TTGGCTAGCACATATGGCTATCAGCAAGCTCACCTACAAAAAATAGTGAGAAAACAGTTCGAATATTGGCCGT
TTGGGGCACATATTCTACAAAAGGAAAAGTTTTGAAATGTATATATATTTAATTTAACTCTTTAAATATTGT
A

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FIGURE 2383

MVFYXXXXXXXXXXXXXXXXXXXXXXXXXISTSVFLHVYRYVYIYMYICXXXXXXXXXICFYAYTCLSIFYMYID
RVITDKSFGLLCKSLG

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FIGURE 2384

TTTTACATTATGAATAACTTTTATTTGTTTATAACAAGTTTTGAATTTTCATCTATTTTTTATGTAAATAGCTCGAT
CTTCAAAAATATCCTTCAGCTCTGACAACCTCTTCACATAACTTTCTGTAAGATCTTTTAAATATCCAAACCTG
TAAAAGTCCACATTTCAGTTGTTCTTTGTTTCCTTAGTTTGCTTCAACAACATCAATGCAAGGTTAATAGAAGCTAT
TTACTTACCATATGGTAGGTGGCTCAGAACCTTCTATTTCTAAGTAATCATATTTCTCTTCATTTGAAAATCAG
TAAATATGAGTGAAATTGTGTCCCCAGGCTCTGCTACAATGGTCCAAGTGCAATCAGCATTGTTATGGTACTCAT
TAGGAAAAC TAGGGCTGGATATGATGCCACTGGATCCTCTCATTGTTCTCCACAAGCATCTTCAGCTCTACAGA
TAGGAACAGGAAAATCCCACGAAGCTGTATTAAGTGAATTGGCCATGCAGGTGAGCTGAGGGTGGCCATCAAGGA
TGTATCCAGTTACACAGCTGTAGCGGATCTTGTC

AATGAATCCCTGCGGTTGGCTGGGGGCAGTGGGTCCCACACTGCCTAACTTCCCTAAATGGGACGCTTCACTTTT
AGAACCCCGGGTCTTCCCTGGCAGGCCAGGTGGCACATCCTGTGTGCGGTGGGCCCTCACCTTGGATCTCCAG
GCCTGACACTGCCAGCTGGATGGAACCATGGCCCCAGCCTTCTGTGCTGTGCTGTGTGCGCCACAGGGTTG
CGTCTCAGGCCCCCTGTGCTGACAGTGTATACAAAAAGTGAGGCTCCTTGAAGGGGAGACTCTGTCTGTGCAGTG
CTCCTATAAGGGGTACAAAAACCGTGTGGAGGGCAAGGTTTGGTGCAAAATCAAGAAGAAGAAGTGTGAGCCTGG
CTTTGCCCGAGTCTGGGTGAAAGGGCCCCGCTACTTGTGTGACAGGACGATGCCAGGCCAAGGTGGTCAACATCAC
CATGGTGGCCCTCAAGCTCCAGGACTCAGGCCGATACTGGTGCATGCGCAACACCTCTGGGATCCTGTACCCCTT
GATGGGCTTCCAGCTGGATGTGTCTCCAGCTCCCCAACTGAGAGGAACATTCTTTACACATCTGGACAACAT
CCTCAAGGGTGGAAGTGTACAACTGGCCAAGCCCCCTACCTCAGGCCCTGATGCCCTTTTACCACTGGTGTGAT
GGTGTTCACCCAGGACTCATCACCTTGCCCTAGGCTCTTAGCCTCCACCAGACCTGCCTCCAAGACAGGCTACAG
CTTCACTGTCTACCAGCACCACCAGCCAGGGACCCAGGAGGACCATGGGGTCCCAGACAGTGACCGCGTCTCCAG
CAATGCCAGGGACTCCTCTGTCTGGCCCCAGAATCCATCTCCACTAAGTCTGGGGACCTCAGCACCAGATCGCCAC
CACAGGGCTCTGCCTCACACAGCAGATCTCTCCTCAACAGACTACCCCTCCATGCCCTCCATCAGGCACCAGGATGT
TTACTCCACTGTGCTTGGGGTGGTGTCTGACCCCTCCTGGTGTGATGCTGATCATGGTCTATGGGTTTTGGAAGAA
GAGACACATGGCAAGCTACAGCATGTGCAGCGATCCTTCTACACGTGACCCACCTGGAAGACCAGAGCCCTATGT
GGAAGTCTACTTGATCTGAGGCCACTTAAGCATGGGGTGGGGAGCTTCTCCCAGAGTGGCCCCAGGGGGTTAGAG
GAGGGGTGAAGATTGGGGCCAGTATCGATCTTATGAAGCTGGAGGACTTGTGCAGTGTGGACTCACCAGGACT
TCCCAAACCCAGAGGCTGCCATCCTAAGCAGCCCCACAGCCCAGTGTCTCCTTGGGGGCAGGAACCTGGGGAGG
GGCCAGAGCAAAGGGCATCAGGGAGAAAGTCCCAGGAAATGTGACCAGTGGCTTCTGTCTCGGAGCTGCAGACC
CCAGGGCTCTTGGTGGAGGCAGGGGAACCTGAGAGTGTGTTTTACAGAGAACCTCAGCTCCCGTCTGCCTCAGA
AACCTTACTGGGCTGAGCTGCCCTCCCCACCAGGGCCGCTGTGTCTCTGCTTCCCTCCGTTCTGCTTCAGCTTC
CCCTAAGGTTAGGGAAGAAAGAATCGGGCTCACGAATGCCAGAGGCAGTGATGTCCCATCCTGGAGGAGAGGAAA
CAGTGACTAAAAGCTGGGGACCCACAGAGGGGTTGGCAGCTTCTCTTGTGCGGGACAGGTGTCTTTGCTGGGCCT
CTGGATGGCCCTGCCCTGACTGGGGCTGTCTCCTCCCTCCTGTCTCTGGGACCCCGCAGAGCCCACGCTCTCACTGC
TGCCTCCTGTCTGGCCGCTGCCTCCTTAGAAAGCTGTGACCAGGCAGCTAAGAGCCTCTGGGCTGCAGGGTCAGCC
TCTCCCAAGACTGAAGTGCAGAGGCTGGACTTGGGGCTCTCTCCCCAGCTTCTACACCTGGGCTCCAAGTCTGA
GTTCCACAGGGGACCCAGCAGCCTCCAGGAAGTCCATACCTGGGGTGGCTGAGACCTTGGCTCTGTATGGAGG
CTGCTCACCCACAGACACTGGTGGGGAGACCATGGCTCAGAGGAAGGGTGGAGCAACCTACTCTACCCCTCA
GGATAGAGAGAGAAGACACACTTGGGACACAGTGAAGACAGTAACCTTGGAACTGACCACGGCCTGGAGGACTGGC
CCAGGCAGGGGGACAGGGAAAATGGAGCCCCAAGTAGCCTCTGGCCAGGGACCCAATGTCCCGAGGAATCTGCCTC
CCACCCACTGACTCAGGGCTCAGACTCAGCCTCTATTGTCCAGAGCACTGGCTTGGCGTCCAGCAATGAAGGCTG
GAGAATGCAGCCTGGATTCCCTACACACACACACACACACACACACACACACACACACACACACACACACAC
ACAGGTGTCTACTGACCTGGAGTGAAGTAGCCTGGGGATAAATGTGACAACTGTGCATTGAACCTTGGG
TCAGGGACGTTCCAATGGCCAAGAGAGTGACACAGCCAGGACCTGGTGGACAGCCAGAGGGGGCCACTTCAGGAT
GGATGTGGGGAGAGTGAAGAGGCAGGGAGTAATCTGGGGGACAGCAGGGAGGAGGCATTCTTCCCTATGTCC
AGGAGAGGGGCAATAGAGGGAAGACTGAGGCTGAAGAATTGACGGCTCTGGACCCAGGACAGACAGACAGACAGAC
AGACAGACACGCACACACACCCCATCTGTCTAGCAAGCAGCCTCCTAAGATAGCTGTTCTCCCTATCATGACGG
TGTAGCCACCATCCTGTTGTATACTAGGAGAGAACTTAACCCACCTGGGGGAAAATAGCTCCCCAAGAGCTGGCA
CCAGTACCACTGATGGCCCTGCTTCCCTCTGAGTGAATGCCAGGAGGAGGCCCTAGGGAAGAAGTCAGGGAC
AGGGACCAGGATACCACTCTGTCACTGTGTGACCCTCAGCAAGTCACTAACCCTTGGCCTCATTTTTCTGTCTT
GTGAAAGAGGACAATAATTCCTACTTCTCAAGATTGTTTTCAAGATAAAGTAACATTAGCATTGTACAATG

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FIGURE 2386

MNFCGWLGA VGPTLPNFPKWAASLLEPRVLPWQAQVAHPVSGGPSFWISRPDTAQLDGTMAPAFLLLLLLLWPQGC
VSGPSADSVYTKVRLLEGETLSVQCSYKGYKNRVEGKVWCKIKKKKCEPGFARVWVKGPYLLQDDAQAKVVNIT
MVALKLQDSGRYWCMRNTSGILYPLMGFQLDVSPAPQTERNIPFTHLDNILKGGTVTTGQAPTSGPDAPFTTGVM
VFTPGLITLPRLLASTRPASKTGYSFTATSTTSQGPRRTMGSQTVTASPSNARDSSAGPESISTKSGDLSTRSPT
TGLCLTSRSLNRLPSMPSIRHQDVYSTVLGVVLTLLVLMIMVYGFWKKRHMASYSMCDPSTRDPFGRPEPYV
EYILI

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FIGURE 2387

CGACTCTGAGGTGCATTCTTTTTTTGATGAGAGGCATCTCTAGGTACCATCCCTGACCTGGTCCTC**ATG**CTGCCG
AGGCTGTTGCTGTTGATCTGTGCTCCACTCTGTGAACCTGCCGAGCTGTTTTTTGATAGCCAGCCCCCTCCCATCCC
ACAGAGGGGAGCCAGTGACCCCTGACGTGTAAGATGCCCTTTCTACAGAGTTCAGATGCCAGTTCCAGTTCTGC
TTTTTCAGAGACACCCGGGCCCTTGGGCCCAGGCTGGAGCAGCTCCCCAAGCTCCAGATCGCTGCCATGTGGAAA
GAAGACACAGGGTCATACTGGTGCGAGGCACAGACAATGGCGTCCAAAGTCTTGAGGAGCAGGAGATCCCAGATA
AATGTGCACAGGGTCCCTGTGCTGATGTGAGCTTGGAGACTCAGCCCCCAGGAGGACAGGTGATGGAGGGAGAC
AGGCTGGTCCTCATCTGCTCAGTTGCTATGGGCACAGGAGACATCACCTTCCTTTGGTACAAAGGGGCTGTAGGT
TTAAACCTTCAGTCAAAGACCCAGCGTTCAGTACAGCAGAGTATGAGATTTCCTTCAGTGAGGGAGAGTGATGCT
GAGCAATATTACTGTGTAGCTGAAAATGGCTATGGTCCCAGCCCCAGTGGGCTGGTGAGCATCACTGTCAGAATC
CCGGTGTCTCGCCCAATCCTCATGCTCAGGGCTCCCAGGGCCCAGGCTGCAGTGAGGATGTGCTGGAGCTTCAC
TGTGAGGCCCTGAGAGGCTCTCCTCCGATCCTGTACTGGTTTTATCACGAGGATATCACCTGGGGAGCAGGTG
GCCCCCTCTGGAGGAGGAGCCTCCTTCAACCTTTCCCTGACTGAAGAACATTCTGGAAACTACTCCTGTGAGGCC
AACAAATGGCCTGGGGGCCCAGCGCAGTGAGGCGGTGACACTCAACTTCACAGTGCCTACTGGGGCCAGAAGCAAT
CATCTTACCTCAGGAGTCATTGAGGGGCTGCTCAGCACCCCTTGGTCCAGCCACCGTGGCCTTATTATTTTGCTAC
GGCCTCAAAAGAAAAATAGGAAGACGTTAGCCAGGGATCCACTCAGGAGCCTTCCCAGCCCTCTACCCCAAGAG
TTCACCTACCTCAACTCACCTACCCAGGGCAGCTACAGCCTATATATGAAAATGTGAATGTTGTAAGTGGGGAT
GAGGTTTATTACTGGCGTACTATAACCAGCCGGAGCAGGAATCAGTAGCAGCAGAAACCCTGGGGACACATATG
GAGGACAAGGTTTCCTTAGACATCTATTCCAGGCTGAGGAAAGCAAACATTACAGATGTGGACTATGAAGATGCT
ATGTAAGGTTATGGAAGATTCTGCTCTTTGAAAACCATCCATGACCCCAAGCCTCAGGCCTGATATGTTCTTCAG
AGATCCTGGGGCATTAGCTTTCCAGTATACCTCTTCTGGATGCCATTCTCCATGGCACTATTTCCTTCATCTACTG
TGAAGTGAAGTTGGCGCAGCCCTGAAGAACTACCTAGGAGAACTAATAGACACAGGAGTGACAGGGACTTTGTT
ATCAGAACCAGATTCTGCGGCTCCTTTGAAAACAGGTCATATTGTGCTCTTCTGTTTACAAGAGGAAACAAGA
TGGAATAAAAGAAATTGGGATCTTGGGTTGGAGGGACAGTGAAGCTTAGAGCACATGAAGTCAAGGTTAGTGACT
CTGCAGGACTTCACAGAGAGAGCTGTGCCCATCATTAGTCCAAGTGCTTTCTCTGCCCAGACAGCACAGAAGT
CAGCCCCGCTACTTACATGGATCATCGAGTTTCCACCTAAAATATGATTCTATTTATTTTGAGTCACTGTTACCA
AATTAGAACTAAAACAAAGTTACATAAAAAGTTATTGTGACTCCACTTAATTTTAGTGACGTATTTTGTATATA
TAGGCCAACCTATACCACATCCAAAATTATGTATCTATTACAGCCCTAGAAGCTTTATAAATACAGTGTGTCTT
CTTTTATTCACAAAATTTTGAATCGTGGAATATGGTTTGAACCTGTATCTTAATTATTTTTTTTTTAAATT
GAGACAGGGTCTCACTCTGTCACTCAATCTGGAATGCAGTGGCACAATCTTGCCTCACTGCAACGCCTGCCTCTC
AGGCTCAAGCAAACCTCTCACCTCAGCCTGCTGAGTAGCTGGGACTACAGGCACATGCCACCAAACCTTGCCATT
TTTTGTCTTACGTAGAGACAAGATTTACCGTTTTGCCAGGCTGGTCTCAAACCTCCTGGGCTCAAGCAATGTAT
TGAATTTT

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FIGURE 2388

MLPRLLLLICAPLCEPAELFLIASPSHPTEGSPVTLTCKMPFLQSSDAQFQFCFFRDTRALGPWSSSPKLQIAA
MWKEDTGSYWCEAQTMAKVLRSRRSQINVHRVPVADVLETQPPGGQVMEGDRLVLICSVAMGTGDIITFLWYKG
AVGLNLQSKTQRSLTAEYEIPSVRESDAEQYYCVAENGYGPSPSGLVSI TVRIPVSRPILMLRAPRAQAAVEDVL
ELHCEALRGSPPILYWFYHEDITLGSRSA P SGGGASFNL SLTEHSGNYSCEANNGLGAQRSEAVTLNFTVPTGA
RSNHLTSGVIEGLLSTLGPATVALLFCYGLKRKIGRRSARDPLRSLPSPLPQEFTYLNSTPGQLQPIYENVNVV
SGDEVYSLAYYNQPEQESVAAETLGTHMEDKVSLDIYSRLRKANITDVDYEDAM

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FIGURE 2389

GCCGGAGTTCGTGGGGCTGTGGCTGGGCCTGGCCAAGGCGGGCATGGAGGCCGCGCTGCTCAACGTGAACCTGCG
GCGCGAGCCCCTGGCCTTCTGCCTGGGCACCTCGGGCGCTAAGGCCCTGATCTTTGGAGGAGAAATGGTGGCGGC
GGTGGCCGAAGTGAGCGGGCATCTGGGAAAAGTTTGATCAAGTTCTGCTCTGGAGACTTGGGGCCCGAGGGCAT
CTTGCCGGACACCCACCTCCTGGACCCGCTGCTGAAGGAGGCCTCTACTGCCCCCTTGGCACAGATCCCCAGCAA
ATGGACGATCGTCTTTTCTACATCTACACGTGGGGACCACCGGGCTGCCCAAGGCTGCCATTGTCTGTGCA
AGGTACTACCGCATGGCAGCCTTCGGCCACCACGCCTACCGCATGCAGGCGGCTGACGTGCTCTATGACTG
CCCCCTGTACCACTCGGCAGGAAACATCATCGGCGTGGGGCAGTGTCTCATCTATGGGCTGACAGTCGTCTCT
CCCAAGAAATTCTCGGCCAGCCGCTTCTGGGACGACTGCATCAAGTACAAGTGTACCTGGCACGGCCCATCCTG
GAGAAACTGGAACCTCAGAGGAACCCGTGCCTCTCTGCTGCCTTGGTGCCCCCTGTGTCTGCCTCCTCTCCC
TTTTCAGCCTCTGTCTCCTTCCATCCCTGTCCCTGTCTGGCCTTAACCTCTTCCCTCTTTTTCTTTCTTTCT
TTCTTTTTTTTTTTAAGATAGAGTCTCACTCTGCTGCCCCGGGCTAGAGTGCAGTGGTGGGATCTCGGCTCAC
AACCTCTGCCTCCTGGGGTTCAAGTGATCCTCCACCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACCCG
ACACAGTCCAGCTAAATTTTATATTTTAGTAGAGACGGGGTTTACCATGTTGGTCAAGGCTGGTCTTGAAC
CTGACCTCAGGTGATCCGCTGGCCTCGGCCTCCCAGAGTGCTGGGATTATAGGCGTGAGCCTCTGGCCCCGGCCT
TTCCTTTTTCTCTCTCTCTCTGCGAGAGTGGAACACACGTGTCTGGGAGCTGCATCTTGTGTAGGGTCCAGC
TGCTTTTGGGACTGCAGGAATCATCTCCCCTGGGCCCTGGACTCGGACTGGGGCCTCCCCACCTCCCTCTCGGC
GTGCTTACGGAGCCCCAATCCAGGCCTCCTGTGGCTGTTGGGTTCCAGATGCTGCAGCTCCATGTGACTTCCA
AGCAGGCCCTCCGCCCTCCCTGCTGAATGGAGGAGCCGGGGTCCCCAGGCCAACTGGAAAATCTCCCAGGCTA
GGCCAATTGCCTTTTGCACTTCCCCGTTTCTGTACATTTCCCCAGCCCCACCTTCCCCCTCCTGATGCCCTGAAA
GCTTCCGGAATTGACTGTGACCACTTGGATGTACCACTGTGAGCCCTGCCTTGATGTCCCCATTTAGCCATCT
CCATGGAGCTCCTGCTGGAGGGCCCTGAACCCTGCACTGCGTGGCTGCCCAGCCAGCTGCCCTCCTGTCTGGGAG
GAGGCCTCCTGGGTGTCTCATCTGGTGTGTCTACTGGAGGGTCCCACAGGAGAGGCAGCAGAGGGGTGAGGGGA
GGTCTCCTGCGGGGGTGGCCTCTCAAGCCTCAGGGGTTCTAGCCTGTTGAATATACCCACCTGGTGGTGGCC
CCTCCGATGTCCCCACTGATGGCTCTGACACCGTGTGGTGGCGATGTCCCAGAAAATCCCACCAGGACGGCCCA
GACATCCCTACTGGCTTCGCTGGTGGCTCATCTCGAACATCCACGCCAGCCTTCTGGGGCCGGCCACCAGGCC
GCCTGTCCGTCTGTCTCCCTCCAGCAGCACCCCTGGCCCCCTGGAGTGGTGGGGCCATGGCAAGAGACACCGTG
GCGTCTCATGTGAACCTTCTGGGCACTGTGGTTTTATTTCCTAATTGATTTAAGAAATAAACCTGAAGACCGTC
AAAAAAAAAAAAAA

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FIGURE 2390

GCCGGAACCAATGTGCCCTGGGCCACTGGGCCGTGAGCAGCCACCGACTGGGGGCAACTTGGCACTTAGAACCGC
AGCAGGGACGTCGGTTTGTCTATCGGGACTCGGCGAGGACGATGGAAATCCTGTATGAATGTGGAAGCCATTAGCA
GAGTAATTGCTGTCTGTTACCATGACAACCAGCCGCTGCAGTCACCTGCCCCAAGTCCTGCCAGACTGCACCAGC
TCAGCTGCACCCGTGGTGAAGACGGTGGAGGATTGTGGCAGCCTAGTGAATGGGCAGCCGCAGTATGTCATGCAA
GTTTCAGCCAAGGACGGGCAGCTGCTGTCAACAGTAGTGGGACTCTTGCCACCCAGAGCCCCTTCAATGACCGG
CCGATGTGCAGGATCTGCCACGAGGGCAGCAGCCAAGAGGACTTGCTCTCTCCATGTGAATGTACAGGGACCTTG
GGGACAATTCATCGGAGCTGCCTGGAGCACTGGCTGTTCATCTCAAACACCAGCTACTGTGAACCTTGCCACTTC
AGGTTTGCAGTCGAGCGCAAACCCAGGCCGTTAGTGGAGTGGCTGAGAAACCCTGGCCCCCAGCATGAGAAGCGG
ACTCTGTTTGGCGACATGGTGTGCTTCTTGTTTATAACTCCCCCTGGCCACCATCTCGGGCTGGCTGTGCCTGCGG
GGCGCCGTGGACCACCTGCACCTTAGTAGTCGGCTGGAAGCCGTCGGACTGATTGCACTCACTGTGCACTCTTC
ACTATTTACCTCTTTTGGACACTAGTGTCAATTAGGTACCCTGTGCGATTGTACAACGAGTGGCGTCGGACCAAT
CAGAGGGTGATTCTCTCATTCCAAAGTCTGTCAATGTACCTTCTAACCCAGCCGTCCTTGCTGGGCCTCCATTG
GTCAAGAGGAACCTCAAAGGAGACAGTTGTTTGATGTTTGTATGGTTGGTTGGTTGTTTGATTCAATGTTTGGGGT
TTGGAAGTGTCTGCACTGGGGTCATGCACTGAGCGACCCCAAGCCCTTCCCTTAAGCCTGTGGGTCTAAGAACAT
CCAGAGCATATTAGCACATCACTCCAAGCAACAACCTCCGCCAGAAGAAAGCAAATGCTGTTTTACTTCAAATGA
TGGATGCTGCAATCATATGATATTTGCTAAGCTGCCAAACATGTTTATTTAGCAGATACTGTATGGAATTTTCTG
AACACCTCTTTAACGTATGAGGAAGGTTGTCCTGCTACGGATGCAATTCAATTCTTCCTTTTTTATTACTATTT
AAACACACACACATATATATATATATATATATTAACCTTAGATGATAATCAAAATCAAAAAGTCAACGTAAAACTG
GTTTCTTGGTTTGGTTGGGTCTTATTTGAGTTAGTTTGTCTCAGTTTCTCGTATGGATTCTTTGGGGTACTTT
GGTAGCCTGAGTGGTCTTTTTTCATCTCTTTCGCGTCCATTACTCAAGGAGACAGCATAACAGATGCAGAACAAGT
CATATTTGAAGAATGTTTTGTACTAACTTCATTTAATTATTCAGTTTTTAAAGGGAAAAAGGGCGTGAGCTCAC
ACAGTGAGCTGTTTATTTAAATATCATTAAGGAGAAAAAAATATGGTGAGAAGCTCGCTCCTTTCACTTGTT
TGGTACTGACAGCTGATAGAAGCTATTTTCTAATAATAAACATCCAGTGTGTGAAAGACAAAAAAAAAAAAAAAA
AAAA

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FIGURE 2391

MTTSRCSHLPEVLDPCTSSAAPVVKTVEDCGSLVNGQPQYVMQVSAKDQQLSTVVRTLATQSPFNDRPMCRIH
EGSSQEDLLSPCECTGTLGTIHRSCLEHWLSSSNTSYCELCHFRFAVERKPRPLVEWLRNPGPQHEKRTLFGDMV
CFLFITPLATISGWLCLRGAVDHLHFSSRLEAVGLIALTVALFTIYLFWTLVSFYHCRLYNEWRRTNQRVILLI
PKSVNVPSNQPSLLGLHSVKRNSKETVV

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FIGURE 2392

TCGGCTCGCGGCTTTCTGATTATGCAGAACTTAAATCTATGCCTCAGTGACCCATACAGCATTCCAGTTCCTATC
ACCTACTGTCTTGTCCCTATACTTGCAGCAGTTGTCCAGGGTTATTCTTTGTCTGTATTAGAATTTTTTTTCAGG
TTGCTTAAGGAATCTTGCAGATACTTGTGACAAAGAATCATAAATGCTGTTGTTAACTGAATAATGAATTGAGT
CCCAAATGTTCTGTGCTAATTAATGCTTTTTTGAGTTGGAGATGAAATGAGAGTAATATCATCAAGCTGTGGATTAA
AGTTATCCTCAAAGCCCCATCATCTACAAAAGAATAGGACAGGAACTGCCTTTGTGCAGGTGCAAGACCATGTT
ACTTTTGAGCAGTGAGCTTGAGATGTCTGGGATACAAATTGGGTTCCTATTAATACTACTAATCATTCTTTTTTT
TCTTTCACCTTCAGCCACTCACAACTGACCTTCACTACTATTACATCCTGGAGCTGTCGTTTTATTGGTCTTTGA
TGTTTTCTCAGTTCAGTATGATATCAAAAGAAAGGACTTTGGCATTATGTTCTGCACCACCTTGTATCTATTTCT
TGATTACCTTTTCATATGTCAACAATATGGCCCGAGTAGGAACGCTGGTCCTTTGTCTTCATGATTACAGCTGATG
CTCTTCTGGAGGCTGCCAAAATGGCAAATTATGCCAAGTTTCAGAAAATGTGTGATCTCCTGTTTGTATGTTTG
CCGTGGTTTTTATCACACACGACTGGGTATATTTCTCTCTGGGTGTTAAATACCACATTATTTGAAAGCTGGG
AGATCGTTGGACCTTACCCTTCTGGTGGGTTTTTAACCTACTGCTATTGCTAGTACAAGGGTTGAACTGCTTCT
GGTCTTACTTGATTGTGAAAATAGCTTGCAAAGCTGTTTCAAGAGGCAAGGTGTCCAAGGATGATCGAAGTGATA
TTGAGTCTAGCTCAGATGAGGAGGACTCAGAACCTCCGGGAAAGAATCCCCACACTGCGACAACCACCAATGGGA
CCAGTGGTACCAACGGGTATCTCTGACTGGCTCCTGCTCCATGGATGATTAATTACTCAAACTACAAGTCCCA
AGCAAAGTGAAGTATTTGTTCTGGAGTATTTAATAAGTTGCAAATGCAGTTCCTTTCATAATATCTCAGCACC
AGAAACAAAAATTAAGATTATCAAAGCATTTTGAATAGTGCAGTGCATGTGCTCTGTGTAATGAAGAAGAA
TTACCATTCTCTCTTTGTAGGCATGCTGTATGTAATTGACACAAGGGAACAGTATTTGCATTGTACTGTCTTAG
AATATTATTTATTTTTTTGTATTTGTAAATCTGTGGACAAAAGAGGGTTTCTCACTCCTTTTACTCACTGGGCT
CATGACAGTGAAAGGAGATGCTCCATCTGCTTCTCCCCCTTTCTCTTGCTGTAGTCCAATGTGCTATGAGCATCAG
CTTACTTTGTCACTTAGAGCAAGCAAACCCAGTGCAAGAGTCTCGTTTCAGCTCTAAATAGGTTTGCTTTCTTTT
AGTTACAGTGCCCATTTTGAATTTGCCTATACAGTCTTAGTGACCATTTAAACCGGACGAAGTAGGTGTTTAATT
TTCCTCTTCATGTTCAATTAGCAGTTCAAATTAAGAAGATGGTTATTGGAGAAGTTTTTTGAATGGTTTTGT
TTAAATTGCTTTGAAATAGATTTTCAATTTCTTGTGCACACAGCCAAGATTTCTTCAATGGGTGTGAGCTAGTTGAG
GGTTAACCTTGTAGGTTGCAGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGATGAGGTCAGTGCTCTGATT
TTGAAGGAGGATATTCACTGAAGCTCATAGTTATAACAAGGAAATCACTGTTAAGAATGGGAATTTGTCCTGTG
TTCTGGGAATAACATAAAGAGAGCAACTGATTTTCAGCCAGGTTTTGCCACTACCCTATAATTAGTGCAGTCTTAT
GTTATAAAAGAAAGTAACTATATTTGGGGACAAAAAATATTTCAAGAGTTGATAAAGATTACCTGTGCAG
TGCAGAGCACTTTAATGCAACCAGCTTTCAAGAAAAAGCCCTATCTAGTACTTGATGTTGATGTTTTTATTTTGC
TGAGCAAAATAAAGCCAATGGGAGAAGGACAA

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FIGURE 2393

MFSQFTDIKRKDFGIMFLHHLVSIFLITFSYVNNMARVGTLVLCCLHDSADALLEAAKMANYAKFQKMCDLLFVMF
AVVFIITRLGIFPLWVLNTTLFESWEIVGPYPSPWWFNLNLLLVQGLNCFWSYLIVKICKAVSRGKVSDDRSD
IESSSDEEDSEPPGKNPHTATTNGTSGTNGYLLTGSCSMDD

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FIGURE 2394

AATTTTATTTAAAAATTTTTTAAAAGAATTTGGTTTTGGATTAAAAGGCATGCAAGCAGCATTAAATCCACTCAC
AGTTACAGTCTATCACCTGGGGCATTCACTACTTTTCAGAGTCAGATCACAGTTCAAAAGACAGCTCTCACCTTG
GGGCATATTTCCCAAGTCAGTGTGAACATGTCTTGTCCCAAGAGGACACTTTATACGCATGGATGTTACAAAAT
TTATTCTAAACTGCAGGTGTCTGTCTCAGGATTCATTTGTTAAACATGTCCTCTGTGTTAAAAATCCTAAAAATCCTT
TTGCATTTCTTAGAAAAAATCACGTTTCTGATGAAATTCTAAAGATGTTTGCAATATTAACTAGAAATATATTAA
CATGTATAATTTTGAGACAAGGTCTTGCTCTGTACCCAGGCTGGAGTACAGTGGCTCGATCATAACTCACTGCC
ACCTCACGATCCTCTTGCCCTCAGCCCTCCGAGTGGCTGGGACTGCAGGCGTGTACCACCATGCCTGGCTAGTTTT
ATTTTTAGTACATAGCCTTGAACAACCTGAGCTTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTGGGACTGT
AGGCATGAGCCACTGCACCTGGCCTGAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAAT
GTGTATTCTGCATTTCAACAACCTGAACCTTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTAGGACTGTAGGC
ATGAGCCACTGCACCTGGCCTAAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAATGTGT
ATTCTGCATTTCAACAACCTGAACCTTAAGCGATCATCCTCCCTCAACCTTCCAAAGTGCTAGGACTGTAGGCATGA
GCCACTGCACCTGGCCTAAAATTACATTGTTACAGGCACGTAAGTAACACTTCCTGGATCCAAAAATGTGTATTC
TGCAATTTTATATTAAAAATAAAAAAGCAAGTGCTTGGGATACAAATATCTGCATGAAAATTTAAAGACTTTATTCC
TGACTGGTATCACTTTTAGTAAGCAGTTGAACATAACTTGTAGTGTGAATATGGCTAAAACAAAGGACACCTGAT
GTCTGTGAAGTCTGCTAAGGACAGGTACAAAATTTATGCATTGCTTTTTTAAAAGTTTAAAATGAGGAATGCTTT
TGATAATCAGAAAGACTAATGTAAAGTGCTGACTGATGCTCTGTCTGCAGTTAAGGAAGACACCCAACTCTCTTC
TTCCTCATCATGGTATTCTCTATGTATAGATCTCTAAAAATGCAAACCTCCTATGGACAAGACAATATGATTTGC
TATAATATGAATTAAGATATGGTAATATCTAATAGTCTCCACTGCTAGGATTCTGAGTAACACAAAAATAGGTT
TTATAAAAAGCCCATGCACCTTCAATTGGTGGGGGAAAAGAATAAAGTCATTTTCAGTCGACTGACTCTGTAAAC
AGATTACCAATATAACAAGCTATGTTATCTAAATTGCCCTGGCAGTCTTCAGTTTTCTCTAAGTAAACAAAGTAA
AAGGAACAATAAGGATGCAGGCGTAGTAATAGCTGTGGAAAAGATGAACTACAGCCACAGTGACCTGTGGGCAG
CCTGCGTAGAGATAAGCTGAGGTGTCAGTCAGACTGATCCTGGTAACGATACTCCATGGCTGCATGAAGATGCTG
GAGGCATCAAGTGGGTGGCCTTAACTCTAGTGGATTCACTAGGCAATGTAAATTGGTTAGTGGGTTCCTCGTAAGT
GCCTGTAAACAATAAAATTTCTTTTTCAATGTCCCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2395A

GCTTATATTTTTTCCAGCTCCCAAATTCCTTTATTCCACTTTAGTCCCTTCATTTTCAGAGATGAGGAAACAGA
TIGCTTTGTTCAAAGACAGCTAGAACTAGAACACAGGCTAATACTTGCTAGCCATGTGATATACTAATGTCAGCC
AAATACGGGCATTTACACTTTTCAGATGTTTGCCATATCTGTGCACTTACTAATCTGTTTAAACAATTTAAATT
GACTCCTTTAAATAAGCTTATTTTAAAGGAAATTTTTTGCTACTATAAAATAGAAAACCATTATATCCTTTAAATA
AATCTAAATAGGAATTCAAAACAAAGCAACGTTATTAAAATTTAATTTAAAATTTAATTTAATTTGTT
AATTTTTTAATTATTGCTGTTCTTCGTGAGAAATGTGTCAAAGCATGTGTTTCATGTTTGATGTCAGTTCCCT
TGTCTAAACAGAAAAAGCACAGCTAATGCCTCTAGTTAAGCTTCTGTATAACTTTTTTAAATGAAATGCTT
CTTAGAGGGGAAATGAGAGGGCATGAATACATGTTTATATACTAAAGTATGATTTTCATGTATATCAGAAGATCTT
AATGGAACCAAATTTATTCTTTGGTTGATTTAATTGTTCTTGAAACTTCAGTTTTTACCTTGAAGGTTTTA
AGCTTAGCATAAGTTTATTTTTCTAAATAAGGAATCTGATTGCCTCACAACCTCAGATGTATCACAGTTATGG
AATAGCAATATATTGTTTTCTGTAACTTTTAAATACCGTAATGAATTTAAATCTCTTCAGCAAAAGCAAAT
AATCTAGGGTGACGAGAGGTGTTTTAGTGTATTGAAATGATGGAATGTTTTTCTTAAATATTTCTGAAGCA
TTTTTAAATAATTTTTTGAATTTATTGATGATAGTAGTTGTGTGTTAGTGTGAATGACTGGTCTAAATGTGTA
TCTCACTTCCAAGGGATTAGTAGGGGTCAGAAATGATTTGTTTTATTCACTGACTTTTCTTTGACGTGTTCTTAT
TCATTGGGCTACATACATTCCCTGTTGCCTTCTCACCAAAAGTGCCACTACACAGGCTGTATTTCACTGTACTGT
AGAAAAGACAAGTAGACCTTTTTCATTTCATGAGATTCCCTATGAAATCTGTTGGTGGAGGTATAAAATGAGGAGA
CTTTTATGGGCTAGCTAGTAGGAGTTTTGCTGTGAAACCTTTGTAACAGGTCTATCAGGAACCTAGGGAGAGAAAT
AAATGCAGGAAATACTTGATCCCATTAACCTGAGGATGAAAAGACATGATAATATTTTGGGGATTATTTATTGT
GIGATTTTTCCGGCTGATCAGAAAGTGTAAATTTTTTGTATACCTTGTGTCAAATACATATATATATATATTTTG
AAATGGAGTCTTGCTCTGTACCCAGGCTGGAGTGCAGTGGTGCATCTGGGTTCACTGCAACCTCTGCCTCCAG
GTTCAAGTGATCCTCCTGCCTCAGCCTCCCGAGTAGCTAGGACTACAGGCACGTGCCACCACGCCCTGCTAATTT
TTGTATTCTTAGTGAGATGGGGTTTACCATGTTGGCCAGGCTGGTCTTGAACCTCTGACCTCAAGTGATCTTC
CCACCTTGGCCTTTCTGAACTATTTCTTTACACACATTTAGAACTACATCTAACTGTATTATAGTTTTCACTTT
CACCATCAGACAAAATTCAGAAGATTCAAGAGAAGGAAAGTCGATTGTATTTACTCATATTTTTGCTACCGTGTT
TTTACATCTCATATTTTAAAGGCTCTCTTAATTATTTATTTTCTGTTTAGTTAATTTCTCTAGCCATTCTTTATT
TATAGTGGGTCTGCTGGTAACAAATCTCTCAATTTTTCTCGTCTGAGAATGTCTTGACTTCCCTTCCATTTTT
GTCAGCACCTGAAAATACTATGCCACTATCTTCTGGGTTCTGTGGTTTCTGTATGAGAACTCCACTGTCAGTCTA
ATTGTCGTTATAAATGCAGTGTCTCTCTCTCTCTCTGCTTCCAGGATATTTTTCTTTTTTTTTTTTTTTTTT
TCTTGAGACGGAGTCTCACTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCAATTTGGCTCACTGCAAGCTCTGCC
TCCCGGGTTCAAGCGATTACTCCCACTTTAGCCTCCCAAGTAGCTAGGACTACAAGGCACACCACCATGCCTGGC
TAATTTTTGTATTTTTAGTAGAGACGGGGTTTACCATGTTGCCAGGCTGGTCTCGAACTCCTGACATCAAGTG
ATCTTCTGCCTCCGCTTCCCAAAGTGCTGGAATTACAGGCGTGAGCCACTGCTCCAGCCTCTTTATTTTTTCA
GCTTTACTCTTTCTCTGTCTTTTGACATGTGTGTCCAGTGACACACGTGTTAGATTTTGCTATAGTCTCACGC
ACGGGTCTATAAGGCTCTGTTTTTGTTCATTTGTTTTTCTCTCTATTCTCTATTTCAGATCGAGTAATTTCC
ACTGTTCACTTTTATCATAGCTGCTTTTAAATCTTTGTCAGGTAATCTGTCTATCTAAGTTTTGGCACCTATTGA
TTATCTTTTGCATTGTTTTTGTTCGTTTTTGTGTTTTGAGATGGAGTCTTGCTCTGTTGCCAGGTTGG
AGTGCAGTGGCACTGATCTCGGCTCACTGCAACCTCCTCCTCCGGGTTCAAGTGGTTCTCCTGCCTCAACCTCC
TTAGTAGCTGGGATTACAGGCATGTGCCACCACGCCCGGCTAATTTTGTATTTTTAGTAGAGACCAGGTTTATCC
ATGTTGGTCAAGGCTGGTCTCAAACTCCCAACCTCAAGTGATCCGCTGCCTCGACCTCCCAAGTGCTGGGATTA
CAGGCGTGAACCACTGCACCCAGCCTATCTTTTGCAATTGTTTTAAATCTTGTCTTGCTAGGATGAATGATTTT
TGTTAAAACTAGATATTTTCAATATTATGTTCTTAGGCTCTGGATATTATCTAAACCTTCTGTTTCCACTGGCTT
TATTGACACTGCTTTGGCAAGGTCATAGGGGTGCCTCATTACTGCCAGGTGGACATAGAAGTCAAGGGTCCCTA
CTCAGCCTCTACTGATGCCTCAGGAAGAGGATCCTTCTTGTTATTGCTGGGTGGGGGTGGAAGTCTAGCTGACAC
CTACTGAGGTAGGTGCTGGGGCATGCCCGGCCATCAGGGTGAAAGTCTGGCTCCCTAGTTGGCCTACTTTTACA
TTGCCCTAATAGGGCATTGGAGCTCCTCACTATGGTTTATGAGCTGGAAGTCAAGGCTCCTCACTTAGCTTTTCT
TGGTGTGGGTGGTGGTGGGGCAAACCTGTTTTCTGGGTTTGGCTGGAGTGGAGCAGTTACTGTCAAAGTTTTCT
GTCTTGCCAGGCTGTCCCTTTCTTGTTTCTTTGGCTAGAGAGAGCAAGCTTTTGTGTGGCTCTTTTGTCTGTG
CCAGTTGGCATTTCAGGTTGCTGCCTTCTTTAGCTCCAAGTCTGGGATATATTAGGCAAAAAGAAAACCCAGAG

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FIGURE 2395B

AATTTACACCACCGTGTCAATTCATGGGTCCTGAGGTCCCTTACTTAGTCTGCCTTCTCTCCACTTTTCACAGTC
TTCTCATGTTTTGTATATAATGTCCAGGGTCTTTAGTTATACTTAGCAGAAATAAAAGGGAAAAGTATGTCTGCT
CTATGCTTCTGTAAGTGGAAGTCTTCAAATTTGCATTTTTGATTCTTTAAACAGTTTTGTAAAATATATAATCA
TTATTGGGCAAAATGTCCATAAAATGTATATACTTTGTGATGGTTTGCATAATATTGTGTTCAAGAGGACTGCT
GAAAAATAACATCTTTATTTAACTGAAACGAATTGTTTACATTATTAATGAAAACTTTTCCCTCTAGGAAATA
ATGCAAAAGGTGTCCCAAGGCTCCTGACCAGTGAACAAAGATTTGAGAAAGACAGCCAAGCTCATGTTTTCTCCT
GATCAAGAAAATCATCCATCTAAAGCACCAGTAAATATGGTGAACCTATTGTCTTAGGCTATAATGGGTCTCTC
CCAAATGGCGATAGAGGAAGGAGGAAAAGTAGGTTTGCTTTGTTTAAAAGACCTAAGGCAAATGGGGTGAAGCCC
AGCACTGTGCATATTGCTTGTACTCCTCAGGCTGCAAAGGCAATAAGCAACAAAGACCAGCATAGCATATCATAT
ACTTTGTCTCGGGCCCAGACTGTGGTGGTTGAATATACTCATGACAGCAACACAGATATGTTTCAGATTGGCCGG
TCGACTGAAAGCCCCATTGATTTTGTAGTAACTGACACGGTCTGGAAGTCAAAGTAATTCTGATACACAGTCA
GTACAAAGCACTATATCAAGATTTGCCTGCAGAATCATATGTGAACGGAATCCTCCCTTTACAGCACGGATTAT
GCTGCAGGATTTGACTCATCAAAAAACATCTTTCTTGGGGAGAAGGCTGCCAAATGGAAGACATCAGATGGACAG
ATGGATGGCTTGACCACTAATGGTGTCTTGTGATGCATCCACGCAATGGGTTACAGAAGACTCCAAGCCTGGA
ATATGGAGAGAAATATCGGTGTGTGGAATGTATTTAGCCTACGTGAAACCAGATCGGCTCAGCAGAGAGGAAAA
ATGGTGGAAATTGAAACCAATCAGTTACAAGATGGCTCGTTAATTGACCTCTGTGGTGAACATTGTTATGGCGT
ACTGCAGAAGGCCTTTCCACACTCCTACCGTGAAGCATTTAGAAGCTTTAAGACAGGAAATCAATGCAGCACGA
CCTCAGTGCCCTGTAGGGTTCAACACACTAGCATTTCCTAGTATGAAGAGGAAAGACGTTGTAGATGAAAAACAA
CCATGGGTATATCTAACTGCGGCCATGTACATGGCTATCATACTGGGGAAACAAAGAAGAACGTGATGGAAAA
GATCGTGAATGTCTATGTGTAGGTCGTGTTGGTCCCTATGTTCTCTGTGGCTTGATGTGAAGCTGGATTTTAT
GTGGACGCCGGCCCTCCAACCCATGCGTTTAGCCCGTGTGGGCATGTGTGTTTCAAAAAGACAACCTGCCTATTGG
TCCCAGATCCCCTTCCCTCATGGTACTCATACTTTTCATGCAGCCTGTCCCTTTTGTGCACATCAGTTGGCTGGT
GAACAAGGCTACATCAGACTTATTTTTCAAGGACCTCTAGACTAACAGACCATTGTCTTGCAGGACTACATTATA
AATTTATAAGCTAAGTGAGTTGGGTTTTTGAACCTGTTGTCCACGTCACAGTTTTTCTGCTCTGGTCATTTGCAT
TAAGATGAAGAATTTTTTAAACATTTATAATAAATAGTAGCAATTTCTGAGCAAAAATCTGGGAAACTCAAGCA
AAGGAATTTCTGAAAGTATCAGTCTTCTGAATTTCTGAGTTTTGAAAATATATTTTGAGGAGAAAAAGACATAGTC
TAATTTGATGCCCTCCTTTTAGTGTTTTTGAATCACCTATCCTCAGTGCTGAAATTGTTTTGTATACTGAGGGT
ACTGTTGGTTCAAACATATGTTAGTTTACAGTTTGTGCAACATTGTAAAATACAGCGACATGTATATTAACTTT
TTTCTATTTATCTTTATTATAGAAAATACCTTAGAATGTTCTTGATAGAGTAGCATGGTAACGATGGTGTACAC
CCTTGGTGTGAATGGTAGCTTAGTGAGCAACCTAGCTCAAGGATTTGCAAAGTTAGGAAGAAGGACGAGAGAGCC
TCTCTCCCCACCCCAATCTAAATATGGAATTTGGTAAATTAGAATACTTTGTAAATTTGTAAGACCAATTCATAC
TAATTACCGCGTGAAAGGTGTTTTGTTTTTAAACAACATTGAAGATAATCAGGAAAGATTTTTTCTTAATGTTTCT
CTCGAGCGTAGTACTATAACAAAACTTAATGCTAAGAAACATTTATATGCTCCTTTGGATATGCAATTTAATC
TAGATTATCTATTTTTCTCCCATGATAACTAATCTGTTTTTAGTATCAGCAGCATTTGGCAAGTTTTATTTTTGG
ATATAAACTGTGGTTCATCTGTTCACTGTTTCTAGAAAAAATCATTGCCATAAGAAAAAGTATAAATTAGCAAG
AAAGGAGAGTGACTTGATTTGCTTTTGGAAAAAGAAATGCTTAATTAATTATTCTGTATTTGGCCTTATTCGGGC
ATTAGGAAATCTAGAGATCTAAAGGGTTGAATGACAATAGTGCCCCCGTTTTTAGCAGACCAGCCTTAACCTCTGG
GTTTGAATCCTAAGGAGATTGCCACAGTGAGACTTAAGGAAATGTTTGGTTGGCAGATGAGCACCATGACTGCA
GCGTGGAGTGACGCACTGCATGGTCTGTTTATCTCTAATTCCAATATGCTTTTTGCTTCCAGAAGCAAGAAAAG
TTTTCTCTCTCCCTCCTTCCACCCTTTTTCAAAGGCACCACAAGTATAGACAGTTGCACTACATCAAATCTT
TTTTTGACACTTGTAGAAACCAGTACACTTTTAGATTAGACAGTATCTTCTTTTAATATTTTGATTTGTTTCTT
TTAGTTTGAAAAGTTGTATAATACTTAACCTGACTGTAGCAAAGTTTTATATGTGGTAGCATACCTTTAATTTATC
CTATTACAAAACCTGTTCTGAATTTTCTTTTGGTTTTTAAAAAACAAACCTGTTGCTTAGAAGCCATGAATTAT
TTATTTTACTTCAACTGTGCAAACTTCCTTGTTTTTAAAAATGATCATTTGGGTTCACTCAGGAAATGCATGTCA
GGAACTTGTATTATAAGTTTATTAGTTGTGATGTATCAGTAACTGCTGTTACCCCTTTTTCAAAGAAATGTAAT
TGATTTTGAAGTTTTCTAGATTGTCACATGCTTGTGACTAATGCAAGAAAGCAAGTCTGTGTTGTATTTGTTT
TAGTCATTTTATTACAGGCTATATATTGTAGCTTAATTTTTATTGCAATTAATTTATTTAACTAAGTAAATAC
TTTTCAAAATA

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FIGURE 2396

MFSPDQENHPSKAPVKYGELIVLGYNGSLPNGDRGRKSRFALFKRPKANGVKPSTVHIACTPQAAKAISNKDQH
SISYTLSRAQTVVVEYTHDSNTDMFQIGRSTESPIDFVVTDTVPGSQSNSDTQSVQSTISRACRIICERNPPFT
ARIYAAGFDSSKNIFLGEKAAKWKTS DGQMDGLTTNGVLVMHPRNGFTEDSKPGIWREISVCGNVFSLRETRSAQ
QRGKMVEIETNQLQDGLIDLGCATLLWRTAEGLSHTPTVKHLEALRQEINAARPQCPVGFNTLAFPSMKRKDVV
DEKQPWVYLNCGHVHGYHNWGNKEERD GKDRECPMCRSVGPYVPLWLGC EAGFYVDAGPPTHAFSPCGHVCSEKT
TAYWSQIPLPHGTHTFHAACPFC AHQLAGEQGYIRLIFQGPLD

2637/2682
FIGURE 2397

CTAATCTTCCAGTTGCCCCCTATTGACTTTAAACCAAAGCTTTGATTCATGACCACTGGGATCCAGCCAGCGGGG
GATTTCTTTTCTGATGGACTGTACCCAGGATCTCACATTTGCTTAAGCAGCTCCCACAATTGGGTCTTTATAAA
AGGACACAGAAGAGACAAGCTCAGTTTTCTCTGAAGGAGAAGGACTGCACTTAGAACTGCATTTTGGTGACCTCT
GAAATTCAGTACGGCAGTGAATGAGCTTCTGACCTTGAGGTGAACTTAACAAAATTATTTTGGAAAAATCGTTG
TGGGAACCATTAAGAAGAACTCCAGGAAACATGAATTCTGGAATCTTACAGGCTTTTCAGGGGAACTCATCTGCC
CCCTGTGCATGAAGTACTTTCATAGACCCGGTCACCATAGACTGTGGGCACAGCTTTTGCAGGCCTTGTTTCTACC
TCAACTGGCAAGACATCCCATTTCTTGTCAGTGCTCTGAATGCACAAAGTCAACCGAGCAGATAAACCTCAAAA
CCAACATTCATTTGAAGAAGATGGCTTCTCTTGCCAGAAAAGTCAGTCTCTGGCTATTCTGAGCTCTGAGGAGC
AAATGTGTGGCACTCACAGGGAGACAAAGAAGATATTCTGTGAAGTGGACAGGAGCCTGCTCTGTTTGCTGTGCT
CCAGCTCTCAGGAGCACCGGTATCACAGACACCGTCCCATTGAGTGGGCTGCTGAGGAACACCGGGAGAAGCTTT
TACAGAAAATGCAGTCTTTGTGGGAAAAAGCTTGTGAAAATCACAGAAACCTGAATGTGGAAACCACCAGAACCA
GATGCTGGAAGGATTATGTGAATTTAAGGCTAGAAGCAATTAGAGCTGAGTATCAGAAGATGCCTGCATTTTCATC
ATGAAGAAGAAAAACATAATTTGGAGATGCTGAAAAAGAGGGGAAAGAAATTTTTCATCGACTTCATTTAAGTA
AAGCCAAAATGGCTCATAGGATGGAGATTTTAAGAGGAATGTATGAGGAGCTGAACGAAATGTGCCATAAACAG
ATGTGGAGCTACTTCAGGCTTTTGGAGACATATTACACAGGAGTGAGTCCGTGCTGCTGCACATGCCCCAGCCTC
TGAATCCAGAGCTCAGTGCAGGGCCCATCACTGGACTGAGGGACAGGCTCAACCAATTCGAGTGCAATATTACTC
TGCATCATGAAGAAGCCAACAATGATATCTTTCTGTATGAAATTTTGAGAAGCATGTGTATTGGATGTGACCATC
AAGATGTACCCTATTTCACTGCAACACCTAGAAGTTTTCTTGCATGGGGTGTTTCAGACTTTACCTCGGGCAAAT
ATTACTGGGAGGTCCATGTAGGGGACTCCTGGAATTGGGCTTTTGGTGTCTGTAATATGTATCGGAAAGAGAAGA
ATCAGAATGAGAAGATAGATGGAAAGGCGGGACTCTTTCTTCTTGGGTGTGTTAAGAATGACATTCATGCAGTC
TCTTTACCACCTCCCCACTTATGCTGCAATATATCCCAAAACCTACCAGCCGAGTAGGATTATTCCTGGATTGTG
AGGCTAAGACTGTGAGCTTTGTGATGTTAATCAAAGCTCCCTAATATACACCATCCCTAATTGCTCTTTCTCAC
CTCCTCTCAGGCCTATCTTTTGTGTTATTCACTTCTGACCAGAGACAAATCAGAAATGTGTTACATGCTGTGGG
AACCCCTTTATCCCAGGAAGTCCTCTTCTTGTGCCTTAACATACAGGACAAATAGGCTCTATTTTATGTCTTGA
ATTGCCCTTCTAATGTTATCAAAACTCATTTATTGTGTTACTATTAAATATGCTGAAAACGCTAAAAGTATACGTA
TTGGTTCTTTATTAAATAATTTTGGAAAAATCATTATTCATGATCATGGCATAACAGTATATTCTCTTTTTTTCT
TTATTTATGACTGTCAGTGAAGTGAATAATAGATGACAGACATGTCTGAATGAAGTAAAAATCAATGGAAGACAG
TCGGGATCTTTTGCTTCATGCAAAAACTTGGAGTGAAGTCTCAATGATAACTGGGAAATGTTTTCTTCTCTT
TATCTAACTATATTACACTTATCCATCAGGTTTCATTGTATTAATCTATCCTTTGAGGTAATA

2638/2682
FIGURE 2398

MNSGILQVFQGELICPLCMNYFIDPVTIDCGHSFCRPCFYLNWQDIPFLVQCSECTKSTEQINLKTNIHLKKMAS
LARKVSLWLFISSEEQMCGTHRETKKIFCEVDRSLLCLLCSSSQEHRYHRHRPIEWAAEEHREKLLQKMQLWEK
ACENHRNLNVETTRTRCWKDYVNLRLAIRAERYQKMPAFHHEEEKHNLEMLKKKGKEIFHRLHLSKAKMAHRMEI
LRGMYEELNEMCHKPDVELLQAFGDILHRSESVLLHMPQPLNPESAGPITGLRDRLNQFRVHITLHHEEANNDI
FLYEILRSMCIGCDHQDVPYFTATPRSFLAWGVQFTTSGKYYWEVHVGDSDWNWAFGVCNMYRKEKNQNEKIDGKA
GLFLLGCVKNDIQCSLFTTSPLMLQYIPKPTSRVGLFLDCEAKTVSFVDVNQSSLIYTIPNCSFSPPLRPIFCCI
HF

2639/2682
FIGURE 2399

GAAGTGCAGCTGGTGGAGTCTGGGGGAGGCTTGGTACAGCCTGGCAGGTCCCTGAGACTCTCCTGTGCAGCCTCT
GGATTCACCTTTGATGATTATGCCATGCACTGGGTCCGGCAAGCTCCAGGGAAGGGCCTGGAGTGGGTCTCAGGT
ATTAGTTGGAATAGTGGTAGCATAGGCTATGCGGACTCTGTGAAGGGCCGATTCACCATCTCCAGAGACAACGCC
AAGAACTCCCTGTATCTGCAAATGAACAGTCTGAGAGCTGAGGACACGGCCTTGTATTACTGTGCAAAAGATACT
GAATTAATCCTCTTTCGCGATTCCATAACCCGCCAATTACAGACTCGAATTGACTAC

2640/2682
FIGURE 2400

TTTCCTTTACACAGCAGCATCATTTATCTGGTAGTAGCAAGACAGCCGTATGACTTTTTGTTGTTGTTAAAGAA
AAATAAGTTGTCAAGATTTCCTACCAATAACTTTCCTATGTCTTGGCTTTCATGTCCAGTGGGCTAGTTTCCAA
CTGTTTGAGACTCAGGGTAATCCCAGAAACCTGTGAAGCATCGGCACAAAGGTTGTAGCGCAGATGCCAACAGAT
GTGTAGGTAACAACTTGTAAGGCACTTCAATCTCCAGTCTCCGCCTGGCCTCCTTGTTCCCTGGTGACCACCTTG
ATGAGTATAATACTTGCAGTGAGAGATTTTGTACAAGCTGACGAACCAAGAGGATCAACACAATTCCCACT
AATTGGTCAGACCCAAACTAACATGTAGGTGGTGAGCGGTGGGATGTTCTGAATAACAGGGAGAGATTCA
GCTTGGATACAAGCTGGAAGAAATGGTTGATCCAGAATCCTATGGTCACTCCAGCCCCGGCAGCCAGAATG
GTGGTGGTGTCCGCCCGGTTGGGCTGTA

2641/2682
FIGURE 2401

AACGTTAAATTTAGATGTTTTACCTCTAAATGAGGTGAAATTGCAGGTTCCCTCTGGCTGGCGGTGGGGAGGAGA
CGCAGGGCAGCCTTTGGCCAGCAGTGAGCGGACAGACTTAGCGGGAGTAGACTCTGCTTCCTCCAGCCACACCTTG
GGGACGGAGGCCCAGGACAGTCCCCAGTGTCTGGGAGCATCTGGCTTCCTCTCCCTGCACACACCAGCCGGGTCT
GAACGGCATCAGTTCTAAGTGCCAGGCCAGAGAGAGGCAGCGAGGGACACGGAGTAGAAGAGGCTGTCTGTCTG
CCACCAAAGGTGACCACCATGTCGGTGAGGTTGCGGTTCCCTGTCCCCCTGGGGACACAGGGGCCGTGGGGGTCTGTG
GGCCGGAGCGCCTCCTTCGCAGGCTTCAGCAGTGACAGAGCCGGAGGATCGCAAAGTCCATCAACAGGAACTCC
GTGAGATCGCGAATGCCTGCAAAATCCTCCAAGATGTACGGCACGCTGCGGAAGGGGTGGTCTGTGTCAGACCCG
AAGCCCCAGCAGGTGAAGAAGATCTTCGAAGCATTGAAAAGAGGCCTCAAGGAGTATCTGTGTGTGTCAGCAGGCT
GAGCTGGACCACCTGTCTGGACGCCACAAAGACACCAGGAGGAATTCCAGGCTGGCTTTCTATTATGACCTGGAC
AAGCAAACGCGCTGTGTGGAAAGGCACATTGCGAAGATGGAGTTTCACATCAGCAAGGTGGATGAGCTGTACGAG
GACTACTGCATCCAGTGCCGCTGCGCGACGGCGCCTCCAGCATGCAGCGGGCCTTCGCCCCGTGCCCCCGAGC
CGCGCAGCCCCGAGAGAGCCTGCAGGAGCTGGGCCGAGCCTGCACGAGTGCGCCGAGGACATGTGGCTCATCGAG
GGGGCCCTGGAGGTTACCTGGGCGAGTTCACATCAGGATGAAAGGCTTGGTGGGCTACGCACGCTCTGTCCC
GGAGACCACTATGAGGTGCTCATGCGTCTGGGCCGCCAGCGTTGGAAGCTCAAGGGTCGGATCGAGTCAGATGAC
AGCCAGACCTGGGACGAAGAGGAGAAGGCCTTCATCCCCACGCTGCATGAGAACCTGGACATCAAGGTGACGGAG
TTGGGGGCTGGGCTCGCTGGCTGTGGGTGCAGTGACGTGTGACATCGCCGACTTCTTCACGACGCGGCCGAG
GTCATCGTGGTGGACATCACGGAGTTGGGTACCATCAAGCTGCAGCTGGAGGTGCAGTGAACCCGTTTGATACT
GAGAGCTTCTGGTGTACCCAGCCCCACGGGCAAGTTTTCTATGGGCAGCAGGAAGGGCTCCTTGTACAACCTGG
ACACCCCCGAGCACCCCCAGCTTCCGGGAGAGATACTACCTGTCTGTCTACAGCAGCCAACACAGCAGGCCTTG
CTGCTGGGTGGCCCCAAGGGCCACCTCCATCCTCAGCTACCTGTCTGACAGCGACCTCCGGGGTCCCAGCCTAAGA
AGCCAGAGTCAGGAGCTGCCTGAGATGGACTCCTTCAGCTCTGAGGACCCCGAGACACGGAGACCAGCACGTGCG
GCGTCCACCTCAGATGTGGGCTTCTGCCCCTTGACCTTCGGTCCCCACGCTCCATTGAAGAGGAGGCTCGGGAG
GACCCCCCTGCCCCAGGTCTCCTGCCAGAGATGGCCCACCTCTCTGGAGGCCCGTTTGAGAGCAGCCTGGCTGG
AGGAACTTAGGAGGGGAGAGCCCCAGCCTGCCACAGGGCTCCCTGTTCCACAGCGGCACAGCCTCGAGTAGCCAG
AACGGCCACGAGGAAGGGGCAACCGGGGACAGAGAGGACGGGCCTGGCGTGGCCCTCGAGGGGCCTCTGCAGGAG
GTCCTGGAGTTGCTGAGGCCACGGACTCCACCCAGCCCCAGCTCCGGGAGCTGGAGTACCAGGTCCTCGGCTTC
CGGGACCGGCTGAAGCCCTGCAGAGCACGGCAGGAGCTCACCTCGGCCGAGAGCCTGATAGAGTGCATCCTGGAG
AGCTTCGCCTTCCTCAATGCCGACTTCGCCCCGGATGAGCTGTCCCTGTTGGGGGCTCCCAGGGTCTCCGGTGA

GTGCACCTCCTTCCAGCAGTGACCCAGTGGCCACCACTCCCACCGGGTGACCCGAGCTCCACGTTTCTGCCAGC
CTCCCCGTCTGTTTCTCCCACTGTCTTGGCTCAGCTCTTGTCACCTCTATCGTGACCCCTTCCCCATGCCATCCC
CGCACATCCCCCACTTGCCCTCAGAGCCGGTCTCAGAGACCACGAAGTGGGTGAGATACCCAGCCTGCCCCCTG
AGCCTTCTGCTCCAAGGAACCAGCTTTTAGTATTATTTTTTAAACCTTAAAAATAATCACCAAGTATATAGTAGA
AGTTCTTTGAGGCCAGGCACAGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCGAGGCAGGCGGATTACC
TGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGATGAAACCCCGTCTCTACTAAAAATACAAAAATTAGCTG
GGCATGGTGGCAAGAGCCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTCGGACCCGGGAGGCG
GAGGTTGCAGTGAGCCAAGATGGCACCCTACATTTAGCCTGGGCGAAAGTAAGACTCTGTCTCAAAAAAG

2642/2682
FIGURE 2402

MSVRLRFLSPGDTGAVGVVGRSASFAGFSSAQSRRIAKSINRNSVRSRMPAKSSKMYGTLRKGSVCADPKPQQVK
KIFEALKRGLKEYLCVQQAELDHLSGRHKDTRRNSRLAFYYDLKQTRCVERHIRKMEFHISKVDELYEDYCIQC
RLRDGASSMQRAFARCPPSRAARESLOELGRSLHECAEDMWLIEGALEVHLGEFHIRMKGLVGYARLCPGDHYEV
LMRLGRQRWKLKGRIESDDSQTWDEEEKAFIPTLHENLDIKVTELRLGLGSLAVGAVTCDIADFFTTTRPQVIVVDI
TELGTIKLQLEVQWNPFDTESFLVSPSPGTGKFSMGSRKGSLYNWTTPSTPSFRERYYSVLQQPTQQALLLGGPR
ATSILSYLSDSLRGPSLRSQSQELPEMDSFSSDPRDTETSTASTSDVGFLPLTFGPHASIEEEEAREDPPLPPG
LLPEMAHLSGGPF AEQPGWRNLGGESP SL PQGSLFHSGTASSSQNGHEEGATGDREDGPGVALEGPLQEVLELLR
PTDSTQPQLRELEYQVLGFRDRLKPCRARQELTSAESLIECILESFAFLNADFAPDELSLFGGSQGLR

2643/2682
FIGURE 2403

GGATTAGCAAAGGCTTTAGAAAACACAAAAAAGACTAATTTGTTGCCTCTGGATGTGTGTGTTATTTTGGGCTG
TTAATATACTTGACTGCTTGTTTCAAGGACTGGAACCTTTTCTTTTACCTTTAAGATTCCTGCATTTTCATGTGC
TCATTCAGCTGGGATTTGTGTTTCATAGAACTGGTAGTATTGGAGGTAGAGGAGATACTGTGATATCATATCTCT
CTCTCTGTCTGTCTCTCTCTCTCTCTCTCTCCCACTGAAGAAGAGAAGACAAAATTTAGAGAATTTGAGACTTGCTCAA
AGTTGTGTAGCTTAGTTAGCGATAAAGCTGGAATTGCACCAGATTTGATTTCATGACATTGCTTTAGCCTGGTGG
TTCTCAAAGCATGGTTATTGGACCAGCAGCATCCCTTGGGAATTTGTTAGATATGCAAATTCATGAGATCCCCAT
TCCCTTATCAGAAATTTTAATACGCTGTGTAGGGTGATTCTAATGCCTGCTAAACTTGGGAACCACTACTGTGG
TCTTTACACTATTGGGCAGGGAGATGGGAGACTACAGGTAGATTTGCTGAATTTTCATGGGCAACACTAGGTTTTC
ATTTTACCTTATTGTTCTGCCATTTAGATGTCTCTCTTAAACATTTTTACTTGCAGTGATGGCTTCCTTAGAC
TC

2644/2682
FIGURE 2404

ISKGFRKLQKRLICCLWMCVLEFWAVNILDCLFQGLEPFLPLRFLHFHVLIQLGFVFHRTGSIGGRGDTVISYLS
LCLSLSLSPTEEEKTKFREFETCSKLCS

2645/2682
FIGURE 2405

GTTTTGGTTGTGAGTCTTTTAACTTACATAAAAAATATGGAGAATTAGCATATTCACATATCTATTTTGTGATGTT
TATCATACGGAAGTTTTAAAATATAGTAAATTCAGTCTTCCATTTTTTTTGTATTATTAAGAACCATTCCCTA
GCTAGGGTCATGAATACATTCTTATGAATTATAGAATCCCAACTGGATAGCTAGTTTCCCTAGCACCTTTAAAAA
ATAGTTTATTATTTTCCCTCCTGATGTATAAGGCCACCTTTACCAATTACATATAATGTACGGAAATGTTTCTTG
GCTCTGCATTCTGTAAATTGGTCCATTTATCTAACTTTGCTTAGTAACCCACTGTTTTTATCATTGTGGTATCA
TAATTGATTATCACAAATGGTAGAATGATTGTCCTCAAAGTCTTTTCTGGTATATATTGATATAATTGTATAGCT
TTTCTTGGTGTAGTAAAGTACACAGTTAAATTTTCTAACATTGAAATATCTTTTAGATTTTCACTTCCAGATGG
CAATGTGAAGGGCCCTGTGGACCCACTGTCCTAGGAATTAGCTATAACTAGTGAAAAT

2646/2682
FIGURE 2406

TTTTTTTTGGCTTTTAAAAAGTAAATTTATTACCACACATAATAAGCTCCAGAGAGTAGAGAGATTCCATCATGT
CATCAAGACCCATGATAAATCTGTAAACATTTTGGATTTTTTTTGAAGTGTACACTCTGTTACTCTCAATATA
TGGGTCTCATACTTTGGCCAGGTTCTCTGCAGTGCCTCAAACTCTGTCCCCTGGAGCAGAAAAACCGGGGCTG
TATTTTACCCAAGTTGGCTCTGCCCTTGCACTTTTTCATAATTGTCTCAGGATTTAGGACAATAGCTGCAGGTAG
TACAGGGAGAAAAAGAGCAGTTGTATATAGTCCCTTGGGTTTCACAGCTCCTCAAAGAAACAGAGAATTAATTA
TAGATCTACCCTATTACTGGATCCCAAGAGGGAGCCATCACCAGGCCGTCTATTATTGCTGCTCCTACGT
TAACCAATAGCAAGCATCCTGTTCTCAGACACTAACTTGGGTTTGGAGACCATGAGTGTTATGGAGACACG
ATGTCATAAATAATAAGCTTGGGAGAATGTGGGGCATCGATCCCACTACCTTCTTGCTAGCTAAGCAAGCGGCT
TACTTACTTGAGCTAAATTCCCCCACATCAGGGCAGCATTATTTATTGGTTAGCGGGTGGCCTGGAAACACAGGT
TTCAGGGCCTTCAGCAGGAAAGCAGGGCTCCTAAGAGCAGATTTTCTTCACTTGATGGGCCAGGGCAAACA
TGGCTACTCATTGTCTGCAAAGAAGGAGGAGAAAAAGGGAACAAGGAGAAAGTCACAACGGGAAAACTTCAC
GCCAAAATGCCAAGTTTAGAGTATTCCGGGACAGAAAAAGGGCACGTCTAGCAAAGGAGGACCTGCCTAGAC
AACCAGATAACTCTATTTGAAAGCCTTGACACTGCGGATGAGAGATCTCTGGAGTGTGTGCAACCCAGTGGTC
AAGTGAGGACTGGAAAGTGGGCCATTGCACAGTTCAAGCTCTCAGGCTCTTTTATGGTAAGTTGTTTCGGGATTAG
AGCCACTTATTCACAGCTGGCAGGTGCGTCCACAAGCTCATGAACAACCTTATGGTTTTGCTTTCTACAGTATCT
GTCCAGGCACATTCTAGTTACTTGACACATCTTGGTTTCAGTCTCTCACCAGAAAGCTGGGGCTGTATTTAACC
AGGTGGCTCTGTCTCCACTTTTCACAATTGTCTCACATTTAGGACCAAGCTGCAGGCAGAAACAGGGAGAAAAG
AGCAGTTTTATATGTCCTTTGGTTTCACAGCTCCTCGNAGAAACAGNAAATTAATTACACAGTAGATCTACACTA
TACTGAA

2647/2682
FIGURE 2407

CAAAATTAACTTAGACTTTTTGAATTTATTAGCTGTTTTGTGAAGATTAATTTTAGAAAGCTAAAATTAAACA
CTGAAAGTAAGTTACTTTATTCCATACGGTCTCTGTCCAGTTTTAGCACTAAAATCAGTTCAAGGATGCCAATCC
CTAATTGGCCAAATAGCCTTACCATTCTTGTTTTCTTCTCCAAATTTGTTTTTTGCTGGTCAGATTAACTTCCAA
TCTCTAAAATATTCCCTGAAATGATAAATTTTTATGATACAGCATAGAATAATATGTATGTGGAGACTTGAAGGAG
TCAAACTCTCAATGAGCCTTTTGTAGGGCTTAACGATTGTTAAAAGGGGGCCAAAAGGGCACTAATTTTTGGAAAG
TGTATGTTTGTATTATGGTGGTGAATGTGTAGAGAGGGTGAAAAGTAAAGGAAAAGTAGAACAAGAAGAAAGAAAA
CTGATAGGTATGACGATGAGAGAGAAAGAAAATGGGAAGAGAGCGCAAGACGTGCAGATTTAGAAAAAAGGTTGA
GGGAAACATATTCAAAGGGGAAAAGAAAGCAGGGGGAAAATACATTAGAGGTGTTGAAATTAGTAGGCACTCAC
AGAGGTGCTAATCGAGAGTTCTGTTGGGCTCCTGTCTGCTGCTATTAAAGAGCATTAGCAGCTAAGAGATCTAA
ATTCTAGTCCTAGTTCTTTGTGTTGCCGTGGAGAAAGTCAGTTAACTTACATGAGGCTCAGGTTCCCTTACCTGTGT
GTAAAATGGGAACATTGAACTAGGTGATCTTTAAGATCCCTTCCGGCTCTAAAATTGTTTGACATTATCTTGGTG
GTCAGTAACTGTGAGAAACACATTCCCTGAGGAAAATTTGCAGCTATAGTTGACTTCAGGACAGCATGTTTAGGGA
GTAGAATGTAAGCTCCCTGAGGGTAGGGGCCCTTTCTGTTGTGTTCACTGCCATATCCCCAGCAGCTAGCACAAAT
GCGTGTTACATAGTAGGCATTCATTAAATGTTTGTGTAATGAATGATGTGAAAAGTATGTTGATGGTTTGTTAGG
AGCACACCTAGAAAGCCTCAAAGAAAAATGGTGTGCTTTAGGGAGGGAAAAGACAGATTTCTTCTGAAGAAATCT
TAAGCAAGCTGATTTTTAATCCTTATTCTTCCTTATTTTGTCCAGATTCAAAGAAAGTGGCTTCAGCTAGTGAC
ATTCTCATAGTCACAAAACCTTACGGTGACTGTAGACATACATAAAAGTGTACATGTAATCTAGGCCAGTTCCCTT
TAAGTATCTTACAGAAAGGCAGGACCAAGCTTAGGTCTCCATGGAATCTGAGTGAAAAGTATATACATGGAATAT
ATTAGTTATATTGAATTAGATTGATTGGATTAAATTCATTGAGAGGCACAGTTAGTCTACAAGNCTGAG
ATACAGGCTGCCAAATTTAAGAT

2648/2682
FIGURE 2408

KLNLDFLNLLAVFVKINFRKLKLNTESKLLYSIRSLSSFSTKISSRMPIPNWPNSLTILVFFSKFVLLVR

2649/2682
FIGURE 2409

CTTGAGTACTTTTAATTTGCCATGCACAACCTTTAAATTCTTTTTTCTATATGTCTCAGACAGAATAGATGGAGT
GTGCAAGGATAGATGGTGAATATGTATTTTGGTAAATTTGTAGAGAAAACGAAGAAAACATATAATTCATAAT
AATGATAATATCCAATGTCTGTTGGGGGCAAAGAGCCTAGAATGGACAAAAGTAGTATGTAAATTTAGAAGGGTG
GGAGATCAGATTTAAGGCATCCTGAGGTCAAGGTATATTTGGAGAAAAAAATACTATTTAAACTTCGTTTCAGAA
GAATGACGTAGAGTTTTAATTAATCAATTCCAAACATGTAGAGGGAGAATTAGGATGGGGAAGAGAAAAAGTACA
CCCAAAGGAGGTAGGAAGGGTGAGTGTAACACAGGAAAGGCAGAATGAATAGAAAGGATAAATAGAAATAAGAGA
GTGGAATAAATCCAAAGAAGTAAACAAAATAAAGGAAAAAAAAAATCTGAGCATGGTG

2650/2682
FIGURE 2410

LSTFNLPC TTLNSFFLYVSDRIDGVCKDRW

2651/2682
FIGURE 2411

CTGGGACATCTTCATCCTTTTTGTCCCATGACCTTCCTTATTTATGCTAATACATTTCCTTCCCTGAGTTCCT
CTACACTACCTATCTCTCAAATGGCAGCAGGGTCAACATCACCATAGTCTGCTATTCTTTGATAACTCCATTTAT
GCTCTCTTTGAAGTTCACCTTCTGGCATTATCACTTTTCATTTCTTTGCTGCATTTTATCTTTGTTGGCCAGTTC
CCTCTTTTTCGTGATACATTGTTGTAAAATCTCATGGGAGTTAGCCACCTGGAGACAGGGAGGCAACAGAACTACA
CACTTTGCTGTCTGTGCATAAATTGAAGAGCAGAAGCTCAGTGACCAATCACTGATGGACTTTGAAAGGAGTGAC
AGTAATTGGCCCTCAATTATGATGCTTATCTTTTATTTATGTCGTGATTCTAGACTGAAGAGTTAGCAACAAAG
TTTATACCATATGCAACTACTCGTGATCAATATACCAAGGTACTGAAAAAGAACCATGTCACTGGGCTACTAGTG
TTATTTAACTGAATCATGCAGAGTGAGGGCTGCCTGTATTCTTGCCCTTTGTTTTCTAGAACTGAAGCATGGAGGG
TCAAATAATGCATCCAATGTTATTTAGAGCTGGAATTTGAATCCATGCAGTTGGGTGCAGAGTCTGAGCTCTTAA
TCACCTTGACCATTACATTACCTTGCTTTTTTATTTTCCTTTGGGGAAATGTTTCCTAAAAAATGTAACGCCCTCT
GTGCTGCTATGTGGGAATCAGAAGTCTCAGTGCTGAT

2652/2682
FIGURE 2412

WDIFILFVPMTFLIYANTFAPPEFLYTTYLSNGSRVNITIVCYSLITPFMLSILKFTSGIITFHFFAAFLSLLASS
LFS

2653/2682
FIGURE 2413

CAGCCATGGCTTTGCTGCAATACTCTGGGCCATTATCGGTTTTGGTTTTTCTGGGATTCCCATAACTGCAAAGC
AAAAAAAAAGGTTTTTTAACATGAGCTGTAGCTTCCCCTGTTTGATATGTGGCCAGATAAAATGTGAATAAATAT
CTACTGAAACATGAACAAAGGACAATTTTCCAAAAGTGGGAATGTGTGTTATGTCCATCTGACAGATGGAATTTG
GAGATAGACCTCTAGGGTTAACTCCTGCTCCCTGATGTGGCAGATGCAGGACTTCACCGGCAGAAAAGTGTTTTA
CAATCTCCTTAACCTGCTTCCAGGATAAGCCGTATCTTTTTCTGAGGCCTGCAGCATTAAAGATGGGTAAAGCAAT
GGAACGTTTGTGCATCGGCAAAAGCTGCAGAAACCAGTGCATCCGCCCTTGATTAAAGTTAAAAGGACCAGGGAG
GTTAGTATGTGCTCTCATATGAGTAATATAGAAAGGGGAATGTCTTTGTTGTACTGCTTGTGTAAAGAATGAAA
TAAAAGATTAAAGTTGTTACC

2654/2682
FIGURE 2414

ACAGCCGAAGGGAAAGCAGCAGGTTGGGGCTTCTTGTGGCCAACTTCAGAGCCTGTCACCAGGAAAGGTAAGCAT
GGGAGGAAGGAAGATGGCGACAGATGAAGAAAATGTCTATGGTTTAGAAGAGAACGCTCAGTCCCGGCAGGAGTC
CACGCGGAGGCTCATCCTTGTGGGAGAACAGGGGCCGGGAAGAGCGCCACTGGGAACAGCATCCTGGGCCAGAG
ACGGTTCTTCTCCAGGCTGGGGGCCACGTCTGTGACCAGGGCCTGCACCACGGGCAGCCGAGGTGGGACAAGTG
CCACGTGGAAGTCGTGGACACTCCGGACATTTTCAGCTCCCAAGTGTCCAAGACAGATCCTGGCTGTGAGGAGAG
AGGTCAGTGTACCTGCTCTCGGCCCCCGGACCCACGCGCTGCTCCTGGTGACCCAGTTGGGTTCGGTTCACCGC
CCAGGACCAGCAGGCGGTGAGGCAGGTGAGGGACATGTTTCGGGGAGGACGTCCTAAAATGGATGGTCATCGTCTT
CACCAGGAAGGAGGACCTGGCCGGGGGCTCCCTGCACGATTACGTGAGCAACACAGAGAACCGGGCCTTGCGCGA
GCTGGTGGCCGAGTGCGGGGGCCGGGTCTGTGCCTTTGATAACCGGGCCACCGGCCGGGAGCAGGAAGCCCAGGT
GGAGCAGCTGCTGGGGATGGTCGAGGGCTTGGTGCTGGAGCACAAGGGCGCCCATTACTCCAACGAGGTGTATGA
GCTGGCGCAGGTGCTGCGCTGGGCAGGCCCTGAGGAGCGGCTCCGGCGGGTGGCGGAGCGCGTGGCAGCCAGGGT
GCAGAGGAGGCCATGGGGCGCTGGCTGTGCGCCCGGCTGTGGAAGTGGCTGAAGTCCCCCAGGAGCTGGAGGCT
GGGCCTGGCCCTGCTGCTGGGGGGCGCGCTCCTGTTCTGGGTGCTGCTCCACAGGCGGTGGTTCGGAGGCCGTTGC
GGAGGTCGGGCCTGACTGACAGCGCAGGTCCTAAAAGTGAAGGCAACTTGGTTAAGGGAGGCTGAATTCTTGGAG
CTGAAGGGAAAACCTTCAATCCAACGGAAGGAATCCTGTAGTTTCAGGCATAGTTTTAATGACACAGAAAACCTTG
CTGCATCACCTTTGCAACTTTGCCAAAGCTCAGAGTTCACCT

2655/2682
FIGURE 2415

MGGRKMATDEENVYGLEENAQSRQESTRRLILVGRTGAGKSATGNSILGQRRFFSRLGATSVTRACTTGSRRWDK
CHVEVVDTPDIFSSQVSKTDPGCEERGHCYLLSAPGPHALLVTQLGRFTAQDQQAVRQVRDMFGEDVLKWMVIV
FTRKEDLAGGSLHDYVSNTENRALRELVAECGGRVCAFDNRATGREQEAQVEQLLGMVEGLVLEHKGAHYSNEVY
ELAQVLRWAGPEERLRRVAERVAARVQRRPWGAWLSARLWKWLKSPRSWRLGLALLLGGALLFWVLLHRRWSEAV
AEVGPD

2656/2682
FIGURE 2416

TTTTTTTTTTTTTGTAAACATATAATTTTTTTATTTTGAGCGTGACACTTCTCCACTAGATAGCAAGGAAAAGT
GGTAACAATTACACATTACACAAAAGTACTGTACCATTGCCTTTATCTTGAAGGTTTCGGAAGCCTCTACAGTTA
ATAAGTTAAATAAAGGGCTTGAGTACATAAATATTTGTCTAGGAACCTACCGTATCTACAACACAGTAAGAATC
TACGGGAGGACAACTTTTACCATAACCACGCTGAGTGCAATTGCGTTATAACATTTCAAATATACAAAGCTCTGT
TCTTTTTTTTTTTTTTTAATAACAATGGTATGTACAGAATCAATAATCACAGTTTGGTGACTTCAACAGTCCAT
ATTCTAGCAGAGTATTATTTCCCTTTGGTTTGATATAAAAAACCTTGGTTGGTGTATGATAAAGAAGAGAACAAGA
ACAAGACGCCCCTTTCCTTTAAGTGCACTGTTAGCTATCTTACAGGCTCGCATTGCTTCCCGGGCCCTGGCTTC
ACGCTGGGGCCCTCGCTGGGGAGATCAACTTCGAGCGCCAAAATGCTATTTAAAAAAGAAAGAAAGAAA
GAAAGAAAAGAAAGGCTAAGTGGGGTGTGTCAGGAGGAAGAGGTTGGGCTTTTTAAATTTTTTACTTCAATATCAGG
CGTCTGGGGGAGAAAACCTCCCCGATATTTTCAGGAAAGTAAGAACAAGAGAGAGTGATGTTGGAGTTGGAGCG
AGGTTGGCAGTAGCAGGGGCAGGGGCAGGGGCGGGTGGACAGCCAGCCGAGGAGGTGCCACGTCCCGGAGCGCCG
AGGGCTGCCATGCCCGCATCCAGACTGCTGTGAAGGCGGCTGCGCTCTCTCAGTGCCGTCTCGGGAGTGTGCTGG
TCCTCTGTTTCCATTTGGTCTTGAGTGGTGCTGAGTGAGGTGACCTTTCGGGGCGCGCGGGGGCGCGGGTGTGG
AGGGCAGCCTTTAGCACACCTCCTTGCCCGTGCTGGTGCCCGGCAGGATGTTGAGCTGCGTGAGCTGCGCCGCGT
GCTCCTTGGCCTTGAGCCTCAGCGCGGCTATGCTAGAGGCGCGTCTGTCTGCGGCCGC

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FIGURE 2417

GGGAACTTGAGGTTTAAAGCAGGGGGAGGAGGGCCGAAATGCTCCCCGCCGCCCCGACACTCACTCGCCCCAG
GCCCCATCCTAGCCCAGGGTCAGTGTCAATCCCTTCACCTTAGCCTCTCACTGCCCAAAGAGGCTTACTTTTCTT
CTTTAAACTGCTGTAAAATTTGGGAGGAAACGGAAGCAAGGGCACCTGATGGTTCAGTGCAGCTTCAGGTTAG
AGGGGCATTGAGGTGCCTGAGCTGGGGGAGGGCCTTCCCCCTGAGGGACTGGGAGAAGGGTAAGCCATGTGCCC
TGGAAGCACTGCAGGGAGCCTCAGATTTGCACCCCTGGCTCACACTCGCTGGCGCCAGCCAGCATGGCAGGGAT
GGGCGGGGCTGGTTCTTAGGTTTCCTGCTCTTTGGGTGCTAGCACCCAGGGTAAGGAGACACCCATGTCCGGTTG
CAAGACAAACCCTTCTACCTCCTTTCTGCCAAAGGCCACCAGCATCCTCTGCCTCAATCTCAATCTTTGGACCT
TTTAGCTCCAAAGTGGTTTGATGACCACAGGCTAAAATTCATAGTCTTAAAATTTTAGATAGTTAAGAGACAGA
TCTGTTACAGGTTTTCAAATAAACTGGTCTATCTAGTGT

2658/2682
FIGURE 2418

MVQCSFRLEGLRCLSWGRAFPLRDWEKGKPCALEALQGASDLHPLAHTRWQPAWQGWAGLVLRFPALWVLAPR
VRRHPCPVARQTLPPFLPKATSILCLNLNLWTFAPKWEDDHRLKFIVLKF

2659/2682
FIGURE 2419

CACTGCACCTTTCAATAAGGCATTTTAGGATTTCTAAGTTATGTATGGTAAACAGCTGGATGAAAAATTCAATTGC
ATTGTTTTTCCAACTTACAGATGATTGGTATAAAGAAGGTTAAGTCCTTAGATAAGTAATGAAAATGTTTGCTT
TACACAAAGTAGAGACTATACAATGTTTTATCTCAAGATGTATTGATGTACTGAAAAAATGCATTTTAAATTTTT
TCCAGAAAACACTACTGAGTTACAAAAAATGGGTCATCGTCCCACTTTGTTACACAGTGGAAATGATAAATCTAGGT
AGGATTTTATGCCTGAAAGAGAATCTTAAAATGTGTCAGTACATTTTTGTTTCAGATTTAGAACTCAGGTTCTTG
GAGACTATGAAATGTGTCCAGAGTCACAGAGCAAGAAAGTGGCATAGCTAGGACTACAAAACAACTTTTTCAAAA
TCCTGAGACTCTCCCAATAGTTTATGAACATGTATTTATGTATTACATATTTATTATTGAACATGTATTTCTGTG
TCTTGCACTCACTGGTTTTGAAACAGAATTAAGGGATGAATAGGATATAATGTCTGCTCTCAAGGAACCCAGTTT
CAATTTCTATGTCTTTTGACACAGTGCCTAGTGGTAAGATCAGGAGAATACCATGAGTATCATGTGCCTTCAGTT
CACCAAGACATGTAAGAAAAAATAATTATAGTCACATGACCCAGATGTAGANATATGAGGTCAAGGAGGG
CTGGATTATGTAGCTCATTACCATTATCATTAAATGTGTAT

2660/2682
FIGURE 2420

TALSIRHFRISKLCMVNSWMKNSIALFFQTYR

2661/2682
FIGURE 2421

ATCTTAATCCTCACAATAGTGCCCTAAGGAAGGTATTAGTATCCCCATTTTACAAAGGAGGAAAACGGGGAACCTG
GGGAGATTAAAGCGAAGGCCTCACAGATCATGAATAGAAGAGGCTGGAAACCTAGTCTGGTTCAAGGGTGTGCTCT
TTCTGCTCTGCCATGCTGTGCTTCAGCCCTTCCCCACTCTCAGCCCCATGTGCACGCAGATAGGGATTTTCACTC
TTTGCCCTGTATGAAAGGAGGGAAGGTAAGACACATGAGCCTAGGGGGAAGGTCCATCTGCAGGACTACCCTGAA
GGGGATGGGACATTCCCTGGCCCTCAGCCTACAACTCTTTCCTTTTATTTCCCTGCTGGTGAAGCATAATTAA
AGATGACTTTGTTTTATACATACACATACATACTCATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCAAGATA
GAGGGCTCTCTGTAAATAAATAGACCTGTCACCTATCAAAGATGCTAACCAAGGACTTACCAAATGTCCTTTGAT
GCTAAGTATCTTTCAGAAAAGTTATTACTCAACCTGAGTCACGGAC

2662/2682
FIGURE 2422

MNRRGWKPSLVQGCALSALPCCASALPHSQPHVHADRFHSLPCMKGKVRHMSLGGRSICRTTLKGMGHSWPSA
YKLFPFISCW

2663/2682
FIGURE 2423

GGCGTGAGCCACCATGCCCAGCCTGTCTGCTGTTGCTTCAGCTCAGAAAGTCCTGGCAGAAGTGGTCCACAGGGA
GACACAAGGGGCCACCCAGACCAGGGGTGGAGGCTTGAACTTTGGCAAGCCACAGTCCTGGCTCCAGACTATGCTG
TCTTGCTCCTTGGAGCACTCATGTGCTCGAACTTGGCCCAAGGAGTACTAAAGCCTCCCTGCGCCTTGCAGGCAG
TTCAGTCACCATGGAGACCCTGTGTATTCTCAACCCAATATGCCTGATACTGATTGCCACCAGAGCTGAGCCCAT
CTAGGCTCAGGAGCTTCAAATGATGGCCTTGGCCCAGACCATCAGTGTCTCGCTTATATCAACTTTTGGGTTCTC
AACTGGAAATAAGCAAAGCCTGCAGATGACTCCAGCAGTAACTCACCAGGAAGCCTCCTTTCAGCCGAGGTTGACA
TCCACTGTTGGCTTTATAACCTTCCTACTGATCATAAACCAAATGTGATGGGGAGCTAGGACTCCTTCACCTCTC
TTCCCTTTAGTAGTAGAGATGAGCCTTGGTGGAAGCCATTGAGGGTTTATTTAGTCATTTCCATCGCTGTG
GGGACCAGAGTCCTGGCGGAAGAGGAGGGCCAGCTCTGGGAATCTGTTGAGAGGCAGCTTTTCCATTGT

2664/2682
FIGURE 2424

REPPCPACLLLLQLRKSWQNWSTGRHKGHPDQGRLELWQATVLAPDYAVLLLGA
LMCSNLAQGVLKPPCALQAV
QSPWRPCVFSTQYA

2665/2682
FIGURE 2425

CTCTGCGCCCCGTCTCTCTTTCCGGCCGCTCTCTCTCTCTCTCCCTTCTCACCCTNGATGGGTGGGGGGTGAT
GCTGGCGGGGGCTGTAAACCCGCCCCGCGTGTGTGTCCGANGNGGGTNNGGTNANGTAANGTNGNGTNGGAGGN
ATCGCACGGCGCGGNCTCTGGGACGCTGGAGTTCAAGCCTCTCCCAGAGGCCGCTGGGGGCAGGCCTCGCCTCG
GGAGCCCCGGGTCTTCTCCAGAGCTGCTCCGGCTCTCTCTCGGCCCCGCTCTCCTTCCCCTACTTGGCCTCCCCTT
GGTGTGTTCACTTGGAAGCGCCCGAGCCTCGGAGGCACCCACTGTTCTCGGGACGCGGCGTAGGCAGCTCCAAC
ACTTTGAGCCCCGTCTTGTCTGAAGCCTGCAAGTTTGTCTCCCTTCTGGAGTGACATGGTCCGGCGACCAAGCGGG
GACCCAGGCTGTGCGCGCTGTGCCTGCGCCCTGCGTTAGAGGCTCGGTGTCTGGTGTGTTACAGGCTTCTTACC
GTGTCCTGCTGAGGGGCGTGAAGTTCCTCACTGTACCGCGCCAGCTGCTACGAGGAGAGACCGAGATCACGGGC
GAGGCGGGTGTCCCTGGAGGGGGATCTCTCTCTAAGCGCTGCTCGGCAACACAACCCCTCCGCCCCCCCCATCCTT
CTCACTCCGGGGGAAAAAGCACTTGCTTTCCCCAGGCAAATTCGGG

2666/2682
FIGURE 2426

SAPRPPFRPLSLLSPFSPLDGWGVMLAGAVTPPAVCVRXGVXXXXVXXEXSHGAXSGTLEFKPLPEAAWGQASPR
EPGSFSRAAPALLGPALLPLLGLPLVCSLGSARASEAPTIVLGTRRRQLQLL

2667/2682
FIGURE 2427

TTAAGGGTACACAGTGTACCTAACATAATATAGGGTTATGAGCAATCTCACATATAGCTAATACAGTGTAAC TTC
CAGAGGACAATTTACACAATGTATTTATTGAAGCTTCCAAAATGTTACACACTTTTACACAGATGCTAGCAGT
GTATACTAAATGCCAGACACCAAAGTAGGCCCTTCAACCACAAAGGGTTGCTTAATTAAATTTACAGTTTGTTGA
ATCTCATGTTTTGTATTACAGACTAAGTATCTATTAAAAATACAGCAGAAACACAATTTATTGACTCGCAAAAGA
TGCTGTGTAAGTTCCAAAAGCAAAGAAAAAATATAAGCGAAAACGATTCAACTTTTTTGTAAGCATATACTATAA
GCAAAAATACACAGAAAAAACCTGGATGAACCTGAATAAGATTATGAATGATTTTTGTCCTTATATTTATTACT
TGTCTGTATTTTCAAGTTGTTAAAATAAATATTAATTACAAAATAAAAAGGTTTTTTACACAAAACATTTAAAA
TC

2668/2682
FIGURE 2428

GGCACGAGGAGACATCACATGCCCCAGTCTGATGCACCACGGAGTCGTCTCTGATGTATTCTTGTCAAAAAATG
TTTGCCCTGATTCTAATCATGAAAGAACAATTAGAAAAAATCCAAATTGACAGATATTCTGCAGAATAAATGGCCT
GACCTCATCAAAAACATCAATGTCATGAAAAACAAAAACATTGCAGATAGCGTGAAATTAAAGATTACAGAGAT
ATAATTTAATGCAAGATCTCTGACTGGATCCTAGACTGCAGGAAAAAGTCTGCTATAAAGAACATTTGGATCACT
TGTAGTAGCTGGGAAATAAAACAAAACATTATTTGTAAAAGGGGGGAAATCTGAACATGGGTCTTGCAGTATTTA
TGACAGTTTTTGCGGGGCAGAGATTTCTAGATTGACAGCTGTTTTAGTACTTTCAAGGTGATGCTCTGTCTGCTG
GTTTGCATTGTTTCTGTCTGAGTTAAGAGACTGGCAGAACACAGAGTTGCAGTAGCCAAACACTGGAGAAAGCTG
GGCCCTACAGAAACCTAACGCTGAAGAAACCTCAGGAGCCAAACTGGTGGAGAAAACAAAGAGTCCTCCCTCTCT
CCCTTTTCAAATAATGATCATACATCTTCAAGCTGTCTGAAATGGTTAAGGAGTTCAGTCTGTCTGTCAGGCACAC
CCCCAGAGCCAGCCTAGCCCACACAGACCCNCTCAGAGCCAAACCAGCAAGGAGAATTTNATTTTCATNTCCNCC
TTGAAAGGACTTCTAGGTAGGGAGGGAGACCCTTTAAC

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FIGURE 2429

GCCGCTTTGGGGGCCGCGGTCTCTCCGCAGCTCGCGGGTCACATGGCCCCGCTGAGCAAGGGGAGCCCTGCGCCT
GAGCTGCGAGGCGGGAGGAGGTGAGGCTCCGGCGCACACCCAAACCGCGCTGCGCCCCGCTCCTTCCGGGGCCCCGG
AGATGGCGCCTCCACCGGGATGAGCTAGCCAGCCTGGGCAATACCAGAGGCGGCCCTCGGCGCGCGCAGGGGACC
GAGCTGGTCGCCCCAACCGGGTTTGATTTCTGATGACTCTGGCCTGAGTTCCAGGATGGTTTTTTCTTGGGACCA
GACATGAACAAAAGTTGACCTCATGAGCACTTCAACCTCTCCAGCTGCCATGCTCCTCCGGAGGCTGCGGCGACT
GTCCTGGGGCAGCACTGCTGTCCAGCTCTTCATCCTAACAGTGGTGACGTTTGGCCTGCTGGCCCCCCTGGCCTG
TCACCGACTTCTACACTCTTACTTCTATCTGCGCCATTGGCATCTGAACCAAATGAGCCAAGAGTTCCTGCAGCA
AAGCTTGAAAGAGGGTGAGGCTGCCCTCCACTATTTTGGAGAGCTTCCCTCTGCCAATGGCTCAGTGCCCATTGT
CTGGCAGGCCACCCCCGGCCCTGGCTGGTGATCACCATCATCACTGTGGACAGGCAGCCTGGCTTCCACTACGT
CCTGCAGGTTGTGTCCAGTTCACCGGCTTCTTCAGCAATGTGGCCCCCAGTGCGAGGGGCACCAACTCTTCCT
GTGCAACGTGGAGCGTAGTGTGAGCCATTTTGATGCCAAGTTGCTCTCCAAGTATGTCCCTGTGGCCAATCGCTA
TGAGGGCACTGAGGATGATTATGGTGATGACCCTTCGACCAACTCGTTTGAGAAAGAGAAGCAGGACTATGTCTA
TTGCCTGGAGTCATCCCTGCAGACCTACAACCCAGACTACGTCTGATGGTAGAAGACGATGCTGTACCAGAAGA
GCAGATCTTCCCAGTCTTGGAGCACCTTCTGCGGGCTCGCTTCTCTGAGCCACATCTCAGAGATGCCCTTTATCT
CAAGCTGTATCACCCCGAGAGGCTCCAGCACTACATCAATCCAGAGCCCATGCGGATCCTGGAATGGGTTGGTGT
AGGCATGTTGCTGGGGCCCTTACTAACCTGGATATACATGAGGTTTGCCAGCCGCCAGGGTTTAGCTGGCCTGT
AATGCTCTTCTTCTCCCTGTATAGCATGGGTCTGGTGGAGCTGGTGGGTGCGCACTATTTTCTGGAAGTGCAGCG
GCTGAGTCCTTCCCTGTACAGTGTGGTTCCCTGCCTCTCAGTGTGACCCAGCCATGCTCTTCCCGGCACCTGC
GGCCCGCCGGACCTCACCTACCTGTCCCAAGTGTACTGCCACAAGGGCTTTGGCAAGGACATGGCACTGTACTC
GCTGTTGAGGGCCAAGGGAGAGAGGGCCTATGTAGTGGAGCCGAACCTCGTGAAACACATCGGGCTCTTCTCCAG
TCTCCGGTACAACCTTTCATCCCAGTCTCCTCTAGGGTGCCAAGAGATGCCTTTCTGAAGTTGGCCACTTCTTGAA
GATTCAAATATTTATCTCTTTATTTAGACATGGTTGCCTGCAGGTATTTCACTGTTTACTGTTGTTAGAGATATA
GGCACTGGGGCAGCTGAGGAACCTCAATATGTTAAGAGCCTTGGCTTTGGTAGCCTCCTGGCAGGAGCAGCAGTT
TGCCACAGGTCCGGACCTCTCCCTCCACACAGCCACACTGCCTCATGCAGTCTGACCCACCCAGTGAGGGTGCAT
TTGAACACTGATTATATTCTCCATTTGTTTTTAAGCTCTGCTTTGTGTTAGAGCTTGTGACTGCCAAAAATTTTG
TGCACAGTGATATGACTGTTTTAGGATCTTAAGGGTAGAATTTTGTGAAAGGTGAGATCCTTTGGAATTGAGTTC
TTTCTCATTGGGTATGAAAATGGATGTATGTTTAGAATATATGCCCAACGAGGCAGGACCATGTGGATAGATTCC
ATTTGTTTCCTTGACCTGATGTAATAAAAAGCCGTGCAGTGCCCGGCATCTTGAAAAA

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FIGURE 2430

MSTSTSPAAMLLRRLRRLSWGSTAVQLFILT VVTFGLLAPLACHRLLHSYFYLRHWHNLNMQSQEFLQQSLKEGEA
ALHYFEELPSANGSVPIVWQATPRPWLVTITITVDROPGFHYVLQVVSQFHRLLQQCGPQCEGHQLFLCNVERSV
SHFDAKLLSKYVPVANRYEGTEDDYGDDPSTNSFEKEKQDYVYCLESSLQTYNPDYVLMVEDDAVP EEQIFPVLE
HLLRARFSEPHLRDALY LKLYHPERLQHYINPEPMRILEWVGVGMLLGPLL TWIYMRFASRPGFSWPVMLFFSLY
LVELVGRHYFLELRRLSPSLYSVVPASQCCTPAMLF PAPAARRTLTYLSQVYCHKGFGKDMALYSLLRAKGE
EPNLVKHIGLFSSLRYNFHPSLL

2671/2682
FIGURE 2431

ATGGTATAAGATTAAATATATTAGTTATGAAAATAATTGTAAATGGCTTATTGAACTTATAGTCAGTAAAAATCA
TGTTTTTGAAAATTATGTAATGACTTTGGAAAATACCAGCAATATAATGTTAAGTGGGGAAAAAAGCAAGTTACT
CCTCTGTAATACATATGATTTTAGTTTTGTAATAAAAATTCCCAACCATATATGCACTTATAGGGAAACAAAGGA
CCCATCGCAAATGTTTTCCATGCTGATCTCCAAAGTGGTGAGTTTATGTGTGATTTTTATTTTGTATTATGCTCTT
CTGTATTTCCGAATTCATACAATAAATATCTGTTACTTTTACAATATG

2672/2682
FIGURE 2432

WYKIKYISYENNCKWLIELIVSKNHVFENYVMTLENTSNIMLSGEKSKLLLCNTYDFSFVIKIPNHICTYRETKD
PSQMFMSMLISKVVSLCVIFILFMLFCIFRISYNKYLLLLLQ

FIGURE 2433

[illegible]

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FIGURE 2434

MTVILFTQLTAPMAVILFTQLTAPMTVILFTQLTAPMAVILFTQLTAPMAVILFTQLTAPMAVILFTQLTAPMAV
ILFTQLTAPMAVMIVTMVTVALMV

2675/2682
FIGURE 2435

AAGCAAAATCAATCACGTTATTTTCAGCTCCGTTTCGACACAGGAAAAGGAAAAGAATGCACATGCCAAACAAGAA
GAAATTTGGTAAGAAAAGATTCAAGATATGGCCTTTATACACTAATTATTCTTAATAATTCATAAGTCCTTCTG
TCTTACCTAATTTCAATTTGTTTAAACAGTAAGACTATATATACATTCATACAAGAATCAAACATGCTAGCAGATA
AGACCGAAAGACTTCTTCAGGGCTCCTTGACCAAAAAAGTGTAGCATCCGACCAAAATTTCAAGAGAATATACTAG
GCTTTCTTCACCATAGACCATCCACATTCTGAATACCTGTGACTTCATTCCGTAAAGCATCTCCCAAATGCAGAT
AATGTATTCAAATTACTACAAATCCAATTTTAACTCTACATACAAATAAAATATCTCAAGAGATAGCTGATGTAC
TTCATAGTATAAAC

2676/2682
FIGURE 2436

AKSITLFSAPFDTGKGKECTCQTRRNLRKDSRYGLYTLIIILNNFISPSVLNPFICLTVRLYIHSYKNQTMLADK
TERLLQGS

2677/2682
FIGURE 2437

TCTGTACTCTGTGATCTCTTTTCCTTCATCCTTGCAGAAGGCTGGAAGCTTGCTTCTGGAGAAGGCTATGCACAC
TGGGAATACAGTTGAAAACCAGGGTACCACACTCAAACGAGTGTTACTATTATGTAAGATCACCAGTCTTCTTCC
CTCACCCAGCTTTCAGAATTCTGGCCAGAATAGAAGTGTCTTATCTAACCTGACCAGCTCAAGGTAAAAGACCTC
AAGAATCGGACATTGGCTGTGTCTGTGTCTCCAAAGAAAATGTCCCAGTCAGCTCACCTACTGTGAAACCCATA
TTGAATCCAGAACTTCTATTTAGTTTGTGTCTTTTTTCTCATAAACAAATTTGTTATAGTCTTACTAAGATAT
AATTGGCATAGAATAAACTTTACACTTAAAGTGAAAACTTGAGTTCTGAGGCATGTATATATTTCCACAGTCGC
CACCACAGTCAGGTAATCATTCCCCTAAATTTTTTGTGCCTCCTTATCTTC

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FIGURE 2438

LYSVISFPSSLQKAGSLLLEKAMHTGNTVENQGTTLKRVLLCKITSLLPSPSFQNSGQNRSVLSNPDQLKVKDL
KNRTLAVSVSPKKMSQSAHPTVKPILNPELLFSLCPFFLINKFVIVLLRYNWHRINFTLKVKNLSEACIYFHSR
HHSQVVIPLNFLCLLI

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FIGURE 2439

ATGTTGGTGAAGATGGTACTTATCTTGGTGCCCAATCCGGTCCCTGCACCGACAATGACAAGGGCAACCAGCGCC
ACAATAATGGCGTATTCAATACCTGAGGCACCCTCGCTGCGTTTGAAGAACAGTTGCGTCTGCACGTAAAGCTTC
ACTATCAGGTCAAGGAACATATGACTTCTCCCTAAAGCGCCACGGATTGCCGGTACGGCTCTAGCACGATCTACG
CGGCGTGCCACTAGAGCATTGTCAACAAACCCTGGGCTCACAACCTGTAATAACGAGTTAATCACAAAGTATTAGT
CGCAAAGTTGGCGTCATAAAACCAAGCGTTCAAGGAGGCGGATCTTTAGTTCCGGTAAATTTTTTGTCTAGATAAT
GGCATTTCGTCCTAGCTGAGCTACCTTCAAATAGCCAAATCGTTAGATGTTTCATCACAGCCAGGTTGCGAATTAA
CTCGTTTGGATTGGCGGGACTGTAGTGCAACCGGAAAGGGAGAGCCGTCATGAACAGTCGTATCAGCATGATCCT
GGCTGGCGTGCTGTTGGTCGGGGCGTTGATCGCGGGGTATTGGGGGCTGGTGCTGAGCCGCAACCCGCCCGTC
GCCGAACCTGTCATTTCTGCTGAAAAAACCGCGCTGACGCCGAAGACCAGACCCGCTCCCGGTCGTGGTGCTGGT
GCGCGATGTGCCGCTTTCGTGGCGCTGACGAAACGACTGGCGGGGAAAAGCTGGGCACGGTG

2680/2682
FIGURE 2440

MLVKMVLILVPNPVPAPTMTTRATSATIMAYSIPEAPSLRLKNSCVCT

2681/2682
FIGURE 2441

CCTGATTAGTTGTGATGAATCAGCCCTTAACCTATTTCCATGGTTTGTGGAGATTGGTTCATTCCTGAGTACAAT
AGGATGGTGGGATTTTTGCTTTAATGTTCATTTTAAACAGAATTCTAGACGCAGATCTAACATTCAAACCTGAATT
ATGTTTTCTGTAAAAGACGGTGAAATGTCTTGGATATATCCTCAGGATATGTCAGTGCTTTCTCATAAAATAAT
GTAAGCAATAGCATTTCCTATTTGTAGAGCATTGTCTGGGTGGAATCTGTGTGGTGGTTCTAGGGGCTGGAC
CTAGGGAAAT

2682/2682
FIGURE 2442

LISCDESALNLFPPWFVEIGSFLSTIGWWDFCFNVHFKQNSRRRSNIQTELCFLLKDGEMSWIYPQDMSVLSHKIM